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Pandemic slows down, video surveillance market starts looking |



It seems like all we have been talking about these days is access control. Sure, thermal and infrared technology continues to be a hot topic during the pandemic, but for many end users, it was, and still is in some respects, more about deciding which is the best technology to manage the problem. And, more importantly, finding the right company among a sea of companies trying to cash in on the space.

Today, though, it is more about creating an ecosystem that provides the right amount of security for each situation. So, whether it is a cannabis medical facility or critical infrastructure, right combination of video surveillance and access control technology, all underpinned with sound cybersecurity practices, is the mantra of the day. Not to mention having the right people in place, but that is a story for another day.

eo surveillance, though, it looks like a drop in demand in 2020 is in the rearview mirror, as projects that were put on hold in 2020 are finally getting the green light here in 2021.

Looking at the latest research, the global video surveillance market revenues, which are set to reach \$24 billion by the end of 2021, will grow to \$31.9 billion by 2025 with a total CAGR of 7.1 percent between 2020-2025, according to London-based research firm Omdia's latest Video Surveillance and Analytics Intelligence Data-

"This marks a quick recovery for the video surveillance market," said Omdia, noting, "Demand that was suppressed in 2020 will return and revenues will be bolstered by projects that were postponed in 2020 due to COVID restarting in 2021."

The size of the ther-Turning back to vid- mal body temperature

solutions market has rapidly grown to \$1.3 billion globally in 2020, according to Omdia. Driven by COVID 19 precautions, this technology has been adopted by several regions, in particular China, East Asia, India and the Middle East. However, without the growth in thermal body temperature solutions, Omdia found that the global video surveillance equipment market declined 3.8 percent glob ally in 2020.

Despite being a driving growth factor in 2020, Omdia forecasts the thermal body temperature solutions market will decline rapidly in 2021 to just \$137 million, an 89.8 percent decline, ultimately limiting the overall video surveillance market growth.

Interestingly, the Chinese video surveillance market growth, which is estimated to have grown 6.4 percent in 2020 compared to the global average of 2.2 percent, is



mainly attributed to the thermal body temperature solution. "The market excluding such solution is estimated to have decline by 0.8 percent," Omdia noted. "As such, China now accounts for 50 percent of the global market revenues. However, a combination of COVID 19 and the completion of Xue Liang or Sharp Eyes program has resulted in declining government investment

in video surveillance in China. Even so, the government investment will continue to grow, albeit at a slower rate."

Tommy Zhu, Senior Analyst - Physical Security at Omdia, explained: "One of the major factors that drove China's market growth in the past few years was government investment. Although the year of 2020 marks the completion of the Xue Liang program, the government will continue to enhance the construction of Safe China during its 14th Five-Year plan. In addition, as China is rolling out its trillions of dollars investment in new infrastructure construction, the demand for video surveillance equipment is expected to continue to grow. Besides, China's ambitious to accelerate the transformation

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Many system integrators, especially small ones, often face problems dealing with their suppliers of materials to execute their projects. The issues could range from delivery delays, wrong material supplied, product quality issues, poor training and technical support, and a host of other reasons which leave a system integrator with feeling of being short-changed.



An SI's business involves dealing with different supplier types, ranging from local vendors and small distributors to large distributors, importers and manufacturers. Knowing these different categories and how one will need to deal with them differently is very important.

Large multinational manufacturers and distributors will usually have their processes in place and their terms of supply of materials remain the same for all their clients. Their dealings are transparent. However, to work with such entities SIs need to qualify to be added as a customer. Tiny system integrators who operate in the informal sector usually find it difficult to meet the entry criteria of these large suppliers, as the SI's credentials may not qualify them to work with the large suppliers. They have to then depend on other lower level supply partners.

Working with large suppliers also has its pros and cons. Some of the cons could be, their long drawn processes and delivery lead times, and often inflexible business policies. Smaller suppliers then come into play and fill this gap. They may offer tiny system integrators better pricing, faster deliveries, and often, even a credit line, and that too without any strings attached. This may work well with the SI, till a dispute arises. The redressal mechanisms are usually not in place to resolve the differences, as such, the relationship takes a beating and the project under execution may

Imagine, a SI places an order by making 100% payment in advance to the supplier, for a certain model of a device, for a project which is already running behind schedule, and the supplier ships the wrong products. Then all hell breaks loose, as the SI is unable to meet his deadline with his client, and his money gets stuck.

A supplier with accountability will take responsibility for the quality problem and work forward to address it quickly. It may offer to remove the wrongly shipped devices at it's cost, while simultaneously free shipping the right products to the SI. But a supplier without accountability is more likely to deflect responsibility. It may tell the SI to first send back the previous shipment and then only the right products will be shipped.

This is just one example, there are many other reasons why business disputes may occur. They can be costly and timeconsuming, rendering an otherwise profitable project into a

I believe that in a mature trade regime such business disputes should be resolved amicably, quickly and in an inexpensive manner by settlement via arbitration and conciliation. Commercial disputes otherwise can take a real bite out of any SI's bottom line.

Here, trade associations could play the role of an arbitrator as part of the service to their members. They could provide a framework for the arbitration of disputes, usually embodied in a set of 'Arbitration Rules'. The associations could also provide a pool of trade arbitrators to conduct the arbitrations, besides an administrative set-up to organise the settlements. With the maturing of the security industry one hopes to see such mechanisms evolving in future.

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

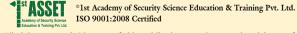
G B Singh Group Editor gbsingh@1stasset.org @EditorGB inkedin.com/in/gbsingh9

SCCURITY

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info@lstasset.org

Abloy UK launches the CIPE Manager access management system at International Security Expo 2021



showcased its range of innovative digital access solutions at the International Security Expo 2021 including a new range of products which includes CIPE Manager, a new access management solution created to meet the demanding requirements of critical infrastructure protection.

CIPE Manager allows organisations to manage all their keys, locks, and access rights from any location, with a user-friendly, cloud-based management system, which can connect with every locking solution in Abloy's digital portfolio.

These include Abloy BEAT, the keyless Bluetooth padlock, the electromechanical TEC2 CLIQ®, and the SMARTair™ access nesses, and remote sites, mechanical master key customers improved op- cards, fobs, and mobile

traditional and digital access solutions can be combined in a variety of ways to meet virtually any requirements, providing flexible, scalable, and compliant security, while helping to control

the movement of people

in a wide range of indus-

tries, building types, and

applications.

ABLOY BEAT is a new keyless padlock that combines three main components: a digital key, a mobile application, and a heavy-duty, Bluetooth padlock, all managed with the visual CIPE Manager user interface. BEAT is IP68 rated and ATEX certified, and is designed specifically for the physical protection of critical infrastructure, busi-

Abloy UK recently systems. This range of erational efficiency, reducing both logistics and

> PROTEC2 CLIQ® is an easy-to-use locking system, approved for UK government use, trusted by many critical infrastructure organisations across the globe. It enables remote key management and provides comprehensive audit trails on locks and padlocks which fulfils the requirements of reg-

The risk of lost or stolen keys is eliminated as they can quickly be removed from the system, so security can be confidently maintained in circumstances where a key has been misplaced. SMARTair[™] wireless access control system that provides advanced, user-friendly access mancontrol system, as well and physically secures agement with multiple as Abloy's high-security property while offering credential options – key

phones. With intuitive management software, the company controls, identifies and updates exactly who can open every door. They get an instant overview of their site's security status.

The SMARTair Openow[™] mobile solution allows controllers to send, revoke and update virtual keys remotely in seconds. SMARTair can help fulfil fire and escape compliance requirements and is ideal for use in high-traffic offices and administrative buildings.

Steve Wintle, Head of CI at Abloy UK said that it provides a clear overview of the critical locking points, connecting mechanical, electromechanical, and keyless locking solutions in the same system. Access rights can be updated, and access permissions granted and revoked remotely from any location with most mobile devices or desktop computers. using the browser-based user interface."

"CIPE Manager provides digital convenience, control, and security that simplifies managing daily processes, adding operational efficiency and complete situational awareness ultimately improving security, efficiency, and

Anviz provides FaceDeep Series Al-based face recognition terminal



The Challenge of Mask Facial Recognition

Along with administering vaccines, face masks have become another important way to keep one safe. In public areas like airports, hospitals, schools, offices, people are complying with mask rules.

to think of a way to ensure in the past year. safety of individuals and to also keep up their business during the pandemic. And the solution was face recognition devices with mask and temperature detection features. Demand for face recognition devic-

Anviz as a provider in the security industry introduced FaceDeep Series to meet the global demands. FaceDeep Series is the new AI-based face recognition terminal equipped with a dual-core Linux based CPU and the solution.

latest BioNANO® deep learning algorithm.

According to Mr. Jin, the R&D director of Anviz, in FaceDeep Series the facial mask recognition rate increased to 98.57% from 74.65% Next Step for Anviz is to adapt facial recognition to the iris algorithm and try to raise the accuracy rate to 99.99%. Since 2001, Anviz continuously up dates its independent BioNANO algorithm, improving the fingerprint, facial, and iris recognition technologies. In this global pandemic environment, they are doing their best to provide customers with a more integrated, convenient and efficient smart











PRESENT

TOP INDIAN WOMEN INFLUENCERS IN SECURITY



December 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.

For further announcements please visit our website:

https://securitytoday.in & https://securityupdate.in







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Pandemic slows down, video surveillance...

sectors."

Omdia expects average selling prices of video surveillance equipment to increase in the short term as US-China geopolitical tension and supply chain constraints from the COVID-19 pandemic increases pressure on vendor margins.

In recent years U.S.-China geopolitical Philippou,

to a digital economy will tensions within the vid- Manager - Physical Seboost the investment in eo surveillance indusboth public and private try have escalated, and Omdia believes that the initial NDAA and blacklisting of companies within the U.S. is being augmented by new FCC regulations.

> "The semiconductor shortfall driven by geopolitics and COVID impact has affected all industries, and video surveillance is no expectation," said Oliver Research

A new cloud based platform for

mobile credentials

ID solutions provid- in the same way as phys-

er and card manufactur- ical ID cards. As a SaaS

er Databac is embracing solution, implementa-

digital transformation in tion is instant, offering

identification with the ease of use, automatic

launch of Databac Con- upgrades, support and

nect. The cloud-based maintenance, and full

platform offers a secure scalability. Loop can be

solution to issue and custom-developed for

manage virtual ID cards systems integrators and

for identification, access large, multi-site and

Powered by technol- use mobile-enabled digi-

ogy partner Any2any, tal keys, certified identity

via the Loop app, users and can be paired with

control, vending and multi-tenant companies.

curity at Omdia. "This disparity between supply and demand is expected to last until mid-2022."

Longer term Omdia

expects that there will be a greater adoption of the network camera products using AI deep acceleration and inference at the endpoint. This will result in higher average prices of network cameras.

> Oleg Vornik, Drone-CEO, commented, "With the inclusion of SonarOne, the DroneSentry system provides a comprehensive all-domain awareness and protection system, including Unmanned Aerial Vehicles (UAVs), Ground

Vehicles (UGVs), Un-

install and monitor via

the DroneSentry-C2TM,

DroneShield intuitive

and easy to use operator

interface, with no spe-

cialist sonar training re-

SonarOneTM is easy to Vehicles (USVs), UUVs, and divers.

> As the original counter-UAS market pioneer which set the industry standards since its inception, we are pleased to continue leading the market by offering this breakthrough unique capability to our customers globally."

With a substantial detection range for divers and UUVs, SonarOneTM can protect large sites with few installation points, reducing the amount of preparation required by the installer manned Water Surface and the need for pre-ex- forms.

infrastructure With its directional capability and simultaneous tracking of multiple targets, SonarOneTM provides the operator with complete awareness of multi-directional underwater robotic and

manned swarm attacks.

The product is unrestricted in deployment, meaning it is available for sale, and expected to be of interest to, a wide range of customers including ports, harbours, naval bases, private yachts, residences, power stations, and various offshore plat-

HALO Smart Sensor v2.5 from IPVideo Corp.



As part of the newest v2.5 hardware release HALO provides both a real-time air quality and health index and sends alerts when either index

IPVideo Corp. has conjunction with HALO announced that it has re- Cloud, the sensor also provides critical reports that allow building owners and administrators to demonstrate they are providing a healthy indoor environment and/or validate that facility improvements are needed.

> With new calibrated staff, students, patients,

HALO hardware reas Temperature, Humidfalls into danger zones. In lease 2.5, in conjunction ity and Pressure alerting.

with HALO Cloud, provides a dashboard displaying all air quality and health events, current and historical, and empowers staff to provide an effective response to any monitoring points. This reporting capability allows owners and administrators to provide real-time proof of the environment's health and alleviate concerns of their customers, employees, and communities.

The new 2.5 features

in HALO allow its users

to capture comprehen-

Monitoring. communication at the

with other security syscan mitigate security risks more effectively than ever before, through well as a new chipset for enhanced function, all of which provide intelligent

nounced the launch of matching 10W class D excellent performance, the TCIV+ (Turbine amplifier, and digital day or night. The Field MEMS microphones provide open, duplex, hands-free communication – and with an audio erful – the TCIV+ can also be used as a public adjust a voice that is too loud or too soft to an intelligible signal for the call recipient. The speak-

Kami Doorbell Camera

DB1C wire doorbell of-

fers a higher resolution,

local and cloud video

storage options, and

plenty of support for

third-party smart home

by 1.3 inches (HWD),

the Kami doorbell isn't

quite as large as the

Nooie Cam (6.6 by 2.3

bulkier than the Vivint

Zenitel TCIV + Video Intercom

Zenitel has an ities. The 10W speaker, wide-angle lens delivers

wired route, the Ezviz black and white polycar- face recognition.

Measuring 5.3 by 2.5

IP65 weather-resistant

rating and contains a

camera assembly and a

doorbell button on the

front, and a speaker on

both sides. Around back

are two wiring terminals,

a mini USB power jack,

The doorbell can be

powered using your ex-

isting doorbell wiring

or via USB using the

included USB cable. Al-

ternately, you can avoid

wiring altogether and

power the doorbell using

the included recharge-

able battery pack, which

is rated to last up to 90

days between charges.

The doorbell offers du-

al-band Wi-Fi and will

connect to your home

network using either the

2.4GHz or 5GHz radio

The Kami uses a

1080p camera that cap-

tures video at 20fps. By

and a tamper key.

er volume automatically adjusts to an audible level to overcome ambient noise levels. The new TCIV+ packs crystal-clear, HD voice and video technology within the same form factor as the Turbine Compact (TCIS, TCIV) range. Installation, functionality, and capabilities remain the

same as with other Turbine stations, making it

of any movement caught on the camera. For performance, the cores and 512MB LPD-DR4 RAM, and 1 Gb flash memory ensure that the TCIV+ series is processing data faster,

ties in the future.

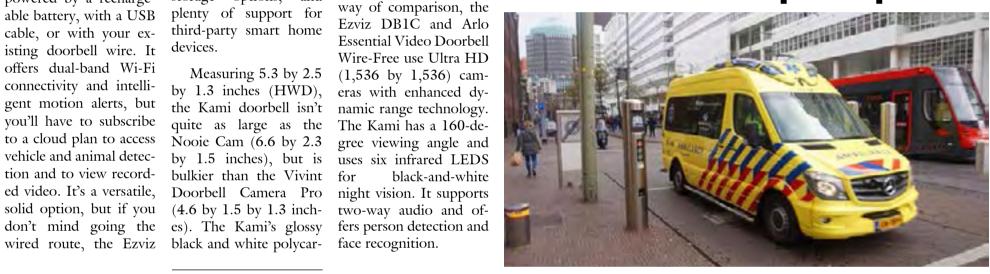


thanks to its solid aluminum, die-cast frame. The UV-resistant, anechoic speaker design provides an open flow of audio, and is protected from tampering, with speaker-grill angles that prevent direct access to the speaker, as well as an acoustically transparent cyber threats and attacks.

poke screen that prevents Cyber defensibility is adperforation attempts while maintaining an open audio flow.

The TCIV+ is cybersecure, meeting stringent IT requirements for mission-critical systems and providing defense from dressed using integrated IEEE 802.1X network access control. As a Center for Internet Security (CIS) SecureSuite Member, Zenitel follows and contributes to the global standards and best practices that are continually

Transit 112 helps automate secure access in public places



an RFID transponder.

of a vehicle. The com-

long-range reader with

transponder ensures 24/7

Transit 112 can be in-

The safety of shop owners and tourists is paramount in city centres. Dynamic vehicle barriers, such as speed gates, bollards and barri- RFID tag containing 112 ers are often installed to coding, which is allocatof View feature cap- keep out unwanted visitors. This is also the case around the station, and a in other places, such as are then equipped with 30-per-second frame rate business parks and leisure amplification that pow- provides a natural look parks. The new Nedap Identification Systems vehicle transponders Transit 112 helps meet available: a transponder these challenges and also that is attached to the inthose of dealing with side of the vehicle's windemergency services that screen with a suction cup access will be smooth and

> Nedap offers a fast, convenient and safe access solution for emergency services to restricted areas by means of Transit 112. With its long-range identification technology, Nedap makes it possible to provide emergency services fast, safe and reliable access, without having to stop the vehicle. This is crucial in (critical) situations when every

reader that can identigate, it opens automatify transponders up to cally without the vehicle 10 metres away. This having to stop. In the Transit reader is pre-proevent of a critical situagrammed for a specific tion, emergency services can automatically pass all vehicle barriers, quickly, ed to emergency services. safely and without delay. Transit 112 can be

used in any scenario that involves a vehicle barrier. There are two types of It is an ideal solution for situations where many people come together, such as city centres: pedestrian areas, car-free and a fixed transponder parks; businesses: inlocated behind the grille dustrial areas, industrial estates, residential boubination of the Transit levards and individual enclosed private areas; a pre-programmed 112 leisure areas: campsites, holiday parks and amuseaccess for emergency serment parks.

The Transit 112 system has been designed tegrated as a stand-alone solution, connected to to provide safe and fast access for emergency serbarriers or to any existing vices to restricted areas parking management or access control systems, no with speed gates, bollards and other barriers. And matter the brand or type of access control system. in addition, it offers a When a vehicle equipped reliable and robust solution for all weather, sun, with a Transit 112 tran-Transit is a long-range sponder approaches the snow, hail or rain 24/7.

DroneShield's SonarOne Sonar **Detection System**

Digital credentials

multi-domain DroneSencounterdrone / counter-UxS threat awareness and response system, via addition of

other applications.

DroneShield Ltd has SonarOneTM, cutting detecting and tracking announced a material edge sonar detection syscapability upgrade to its tem, for directional real time reporting of under-

SonarOneTM is a sophisticated sonar moni-

water threats.

critical toring device capable of

hostile unmanned underwater vehicles ("UUVs") or diver intruders in protected waters. Ideal for deployment around naval vessels, harbours, and

infrastructure,

www.securityupdate.in

"The potential and

'phygital' identification.

sheer convenience of cloud-based identification will drive adoption of mobile credentials, or 'virtual wallets'. We see this as complementing physical ID cards, which offer visible security, particularly in non-cloud environments, like prisons or hospitals," said Databac CEO Charles Balcomb. "Databac Con-Databac Connect com- validation and biometric nect forms the basis of bines security with ul- security (facial or finger- our digital strategy, on tra-convenience, for an print) for secure authen- which we will build our end user experience that tication. They can incorgrowing range of cloud is entirely intuitive. Once porate Legic, Mifare and solutions, as we support enrolled on the system Desfire technologies, our clients on their own digital transformation use their mobile phones physical cards for hybrid, journey."

leased new product version 2.5 of the HALO IOT Smart Sensor providing instant Health and Indoor Air Quality readings and alerts.

The HALO Smart Sensor, the worldwide leader for vape and vape with THC detection is now helping facilities monitor their indoor health and air quality.

C02 sensors, the HALO 2.5 provides a cost-effective and flexible alternative for any facility or campus environment that is looking for the healthiest environment for its

sive building awareness with an all-in-one device. Used for health and safety, HALO is a vape detector, an air quality monitor, and a complete security device for privacy areas where you do not want to use a camera or microphone. With a single device HALO provides; Building Health Monitoring, Indoor Air Vape Detection, THC Detection, Gunshot Detection, Emergency Key Word Alerting, Audible alerting, Light/Occupancy alerting, Chemical alerting, VOC alerting, Tamper alerting as well

video, the TCIV+ provides users with a com- address speaker. With munication solution for built-in software capa- 4x Cortex-A53 CPU any situation and allows bilities, the station can

The Kami Doorbell

Camera is a smart vid-

eo doorbell that can be

powered by a recharge-

able battery, with a USB

cable, or with your ex-

isting doorbell wire. It

offers dual-band Wi-Fi

connectivity and intelli-

gent motion alerts, but

you'll have to subscribe

to a cloud plan to access

vehicle and animal detec-

tion and to view record-

ed video. It's a versatile,

solid option, but if you

Compact Intercom Vid-

eo) Station. Combining

the unrivaled high-qual-

ity audio of the compa-

ny's Turbine Compact

Series with exceptional

With Zenitel's new Turbine TCIV+ video intercom station, users a unique combination of HD Voice and Video, as

The TCIV+ employs powerful audio technology to safeguard people, property, and faciltures more of the area

which translates into stability, uptime, and a long product lifetime. The enhanced efficiency in data processing provides the opportunity for integration into various security and business platforms and opens the door for greater system capabili-

The TCIV+ incorporates a sophisticated design. The station is well protected from easier to upgrade. The damage and destruction,

SURVEILLANCE OCTOBER 2021 **SURVEILLANCE** SECURITY UPDATE ▲ 7 6 ▲ SECURITY UPDATE

TiOC 2.0: Customisable security alarm system made possible by Dahua



has launched its upgraded Three-in-One Camera series – the TiOC 2.0. Aside from its Active ers. Deterrence function, it is also equipped with Smart Dual Illuminators, VoiceCatcher technology, and other intelligent features that can help ease monitoring operation and customise alarm systems based on the actual needs.

The upgraded TiOC 2.0 features Smart Dual Illumination technology that can flexibly switch between IR mode and white light mode. The smart illumination mode adopts a deep learning algorithm to detect a target, when the Smart Illumination Mode (default mode) is enabled, the supplementary white light will only turn on when a target has been detected in the monitored area (PTZ camera tracks the target).

The active alarm will be triggered as well (siren and blue & red light) get leaves the monitored

Dahua Technology Mode, the smart dual ilrequirements of custom-

> The Dahua Voice-Catcher technology adopts a high-sensitivity dual mic array – a newly designed audio acquisition circuit that can intercept external circuit interference. With Dahua's self-developed noise reduction algorithm and high-performance SOC, this feature significantly increases the camera's audio pick-up distance by 7 meters compared with the previous generation It features 11 built-in of TiOC (based on standard laboratory environ-

Powered by OPC (Optical Path Compensation) technology, the TiOC 2.0 cameras can correct the angle of refraction of different light rays, allowing Dahua IPCs to output brighter and clearer black & white images with an F1.0

large-aperture lens. Moreover, Dahua if the target enters the innovatively adopts an perimeter rule area. When the tar- F1.0 super large aperture making it suitable for which greatly improves area, the supplementary image quality (IR camerwhite light will turn off as on the market mostly (PTZ camera goes back have an F1.6 aperture). It is equipped with an to preset) and the IR il- The F1.0 aperture lens F1.0 large aperture and luminator will turn back of TiOC 2.0 cameras in- optical path compensaon, which can signifi- creases the light input tion technology - breakcantly help reduce light by 1.96 times and 2.56 through technology in pollution during night- times compared with the industry - that can time. Together with oth- F1.4 and F1.6 respec- capture a brighter and er modes including IR tively. This technological clearer image even under Mode and White Light breakthrough enables a low-light conditions.

smooth visual experience lumination technology with high brightness and can meet various scene real-time 4K resolution at 25/30 fps even when AI is enabled.

> Aside from the DMSS app, the TiOC 2.0 camera series also works with WEB/NVR software. It allows the configuration of alarm-in ports directly on the webpage interface, providing an alarm receiving or one-tap arming/disarming function that can control both siren and warning lights with just a click of a button through the alarm system interface.

alarm sounds and supports importing of custom voice audios that can be used as a welcome message in stores and as a deterrent in restricted ics - explores how a new

This upgraded series

also adopts an AI algorithm instead of conventional PIR sensors to improve its event detection accuracy. It boasts an array of AI functions, including SMD 3.0, protection, various application scenarios including public areas and private places.

Eagle Eye Local Display Station

video appliance has been engineered to integrate seamlessly with Eagle Eye's cloud VMS, dis- able in two models, the playing up to 32 camer- DS100 which supports

The new Eagle Eye display and up to 164 DS200 which supports Local Display Station cameras across multiple two displays. Both moddisplay pages.

The Eagle Eye Local Display Station is availas on any standard TV a single display, and the are controlled and man-

els offer ultra-low latency, crisp, and clear video. The software provides high reliability and customizable layouts which



EAGLE EYE NETWORKS

Launches Premium Support

aged from the cloud.

The Eagle Eye Local Display Station is designed to deliver live video without the cost, complexity, and mainte-

nance of a workstation, making it ideal for use in public areas or remote locations with less technical support staff. It delivers live video on almost any monitor. And,

it is designed using high quality components, with embedded software technology that ensures reliability even during power

IDIS tech-explainer eBook on video analytics to better security, safety and business intelligence



technologies. This newest

generation AI solutions

made up of multiple lay-

ers of algorithms and

advanced processing and

can be more accurately

called 'intelligent' video

Deep learning's real

value comes from its

interest and distinguish

these from video data in-

put which is just 'noise'.

But some caution is still

needed, warns IDIS:

deep learning video solu-

rithms that drive them

are not fully trained and

able to recognise objects

By contrast, effective

deep learning video ana-

lytics can deliver multiple

benefits, from preventing

'alarm overload' in busy

security control rooms,

to freeing up personnel

resources and enabling

security provision to be

better focused. Metadata

search functions also al-

low users to benefit from

advanced interrogation of

single and multiple cam-

eras, speeding up investi-

gations and automatically

locating objects or people return on investment."

reliably and accurately.

analytics.

IDIS's tech-explainer eBook – The Benefits of Deep Learning Driven Intelligent Video Analytgeneration of AI video solutions is delivering better security, safety, operational efficiency, and business intelligence.

The eBook, which can be downloaded now from the IDIS website, reflects the company's commitment to supporting its systems integrator partners as they focus on delivering advanced video solutions into growth

In recent years, the if the engines and algointelligence (AI)' have been applied to many different types of security systems, but without agreement on what AI means, says IDIS, so it's important to understand that not all solutions are designed to the same standard or deliver equal value.

The eBook explains some of the differences conventional 'blob' analytics - found in most modern network cameras and relatively prone to false-alarm triggers caused by environmental factors - and more

powerful deep learning

The eBook also outlines how AI video can leverage neural networks support efficient returnto-work strategies and ensure COVID-secure facilities and workplaces using highly accurate analytics for face mask detection, social distancing adherence, people counting, and occupancy monitoring. ability to detect events of

Guidance is also provided for systems integrators, demonstrating how the same functionality will deliver value beyond the pandemic, with bentions can still disappoint efits such as facilities and workspace optimisation, particularly for the retail and hospitality sectors.

> "The best AI offerings today add value for customers by rapidly increasing productivity and efficiency, and providing useful business intelligence," says James Min, Managing Director, IDIS Europe. "This new eBook explains how systems integrators can get past the jargon to support end-users, building a compelling business case that both addresses immediate priorities and demonstrates long term

comes with 2K resolution. The camera is capable of providing 360 2K Pro is that it weighs degree surveillance and aims to provide value for be carried around eas-

your money.

duced the Mi 360 Home

Security Camera 2K Pro.

The Mi 360 Home Security Camera 2K Pro is essentially designed to be used as an indoor camera, but its compact form factor makes it ideal to be positioned outside. Sadly, it doesn't come with any water resistance. So, if you install the camera outside, please make sure it is covered and doesn't get damaged by water

splashes. At the front of the camera, you get an indicator, lens, microphone and a microSD card slot that can be revealed by pushing the lens upwards. The Mi logo is positioned under the lens and completes an overall minimalist design.

in the retail box. The

within the packaging. The last can be used to install the camera on a

with nearly everything you need to run it withpower adapter, cable and a bracket are included

For connectivity, Mi 360 Home Security Camera 2K Pro can 2K Pro.

The rear of the cam-

era features a microUSB

port, loudspeaker and

a reset button. Another

advantage of the Mi 360

Home Security Camera

just 400 grams. It can

ily and even the wire is

quite long, allowing you

to position the camera

far away from the power

One of the issues peo-

ple face with IoT devices

is to set them up. Xiao-

mi has made the process

very simple with the

Mi 360 Home Securi-

ty Camera 2K Pro. The

security camera comes

work on 2.4GHz and 5GHz Wi-Fi signals. There is also Bluetooth 4.2 and support for Amazon Alexa and Google Assistant. It allows you to check the feed on Echo Show or Next Hub

Mi 360 Home Security Camera 2K Pro comes with infrared night vision which helps you get decent picture quality even in lowlight or night. Of course, it is not the same as day surveillance, and you get a lot of grain, but it's passable for a security camera.

It sends out notifications after detecting anyone in the field of view. These notifications can be customised using the Mi Home app. There is also an AI motion detection feature, which can follow the detected humans, if enabled. All these features work just fine on the Mi 360 Home Security Camera

SimpliSafe unveils its first proper

ing was its indoor-only a weatherproof rubber sleeve. Now, the company is finally offering a proper, battery-powered outdoor cam, complete with a weatherized shell, a spotlight, and people detection.

SimpliSafe Wireless Outdoor Security Camera is a svelte. cylindrical camera with base station. The Out- which areas of the frame Monitoring plan adds other random events

afe's only option for base, Wi-Fi connectiv- has a 140-degree field outdoor video monitor- ity, Alexa and Google of view and supports Assistant support, and SimpliCam wrapped in a rechargeable, replaceable battery that promises to deliver between 3 with 720p being the deand 6 months of battery life on a single charge.

> Equipped with two antennas, the new SimpliFi outdoor cam is sion: full color, with capable of connecting help from the integrated to 2.4GHz Wi-Fi net- spotlight, or black-andworks, but it won't work white infrared. Activity without a SimpliSafe zones let you designate

For years, SimpliS- a swiveling magnetic door Security Camera HDR video resolution up to 1080p (720p and 480p are also options, fault), as well as 8x digital zoom.

> The camera boasts two types of night vi-

> > www.securityupdate.in

can trigger motion 24/7 professional moninclude (for example) vour driveway while excluding the street or a neighbor's window.

ports people detection, but only if you pony up for one of SimpliSafe's subscription plans. The company's Self-Monitoring plan offers un-

alerts, allowing you to itoring, unlimited video events for up to 10 cameras, and cellular backup for the base station in case you lose your regular internet connection.

The camera also sup-Other features on the outdoor cam include two-way audio and an 80dB siren for scaring off intruders, while "smart AI" helps to prelimited video events for serve battery life (preup to five cameras, while sumably by preventing a \$25/month Interactive swaying branches and

from triggering video recording).

The Outdoor Securi-

ty Camera has an IP65 rating, which means it offers complete protection from dust ingress, as well as resistance to powerful jets of water from any direction. In other words, the cam shouldn't have any trouble withstanding rainy or snowy conditions, no rubber sleeve required.

Mi 360 Home Security Camera 2K Pro review: For NOW CONTROL YOUR SECURITY FROM WHEREVER YOU ARE those who want surveillance in high resolution



- 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,

BOARD ROOMS,

SHOPS...

BANKS, FACTORIES,

LABS, R&D CENTRES,



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Hikvision provides their HikCentral video management software to enhance real-time monitoring at Care Protect's office in Belfast



When Care Protect some of which have seen wanted to upscale its operations in healthcare safety and monitoring services to a large private provider, it turned to Hikvision's HikCentral video management software, in combination with off-site cloud video storage from Manything Pro.

Care Protect is an in-

novative organisation. It was created to promote excellent, sustainable and consistent care delivery in health and social care settings. That innovation is reflected in the way it is of pivotal importance the company integrates that the system in place technology into the very to manage the viewing of heart of its care provithat video is stable, reliable sion services. It uses the and effective. One of Care latest camera and audio Protect clients is a large technology, alongside the private healthcare providlatest secure cloud-based er, for which Care Protect video storage services, monitors bedrooms and with a team of health and communal areas of child social care professionals and adult wards in hospireviewing and assessing tals nationwide througharound the clock. out England. Care Protect Because of this dilalso monitors elderly care

homes for several differigence in monitoring, ent providers. high levels of independent scrutiny can be guaranteed. The result is that Systems Director, Andy through this transparen-Johnson, said Care Procy, reassurance is available tect Directors have a backfor residents and their ground in the care indusfamilies, knowing that try, which has informed vulnerable adults and chilthe monitoring system the dren are better safeguardcompany utilises. "We've ed and protected. In all developed a system based cases, system use is with on the reviewing of rethe prior consent of resicorded footage by social dents and relatives or next workers and nurses to adof kin only. vise, initially, on the qual-

ity of practice," Johnson Care Protect's independent monitors are explains. very well qualified, with years of relevant health and social care experience, together with all necessary Disclosure and Barring Service (DBS) checks and Security Industry Authority (SIA) licencing. Collectively they offer a high level of sector knowledge and expertise essential to assist and advise those to efficiently manage that with responsibility for video, both in terms of safeguarding and quality and clinical governance. One of the key reasons that Care Protect was established was to help address public concerns over Care Protect's operational malpractice in health and social care environments,

HikCentral video management software, which needed to be able to deliver high quality images to a Samsung multi-screen video wall for real-time monitoring.

wide media coverage. is critical, as is the offsite cloud video storage pro-As a result, sound and vided by Manything Pro, motion detection alarms, as Care Protect is careful infrared filming, and reto ensure there is no local liable connectivity is utirecording of video onsite lised so immediate alerts at the customer's facilities can be raised if an incident so that it cannot be tamis seen or heard or there pered with. Resident and is an internet or mainpatient rights to privacy tenance issue. Video reremain at the core of Care cordings also include the Protect's operations, and use of privacy settings to they ensure they comblock any agreed zones or ply with and exceed all areas of view as required. relevant legislation and With video footage guidelines, including the playing such a crucial role Data Privacy Act and Surin Care Protect's service, veillance Camera Code of

> Practice. prehensive, surveillance The newly improved Hik-Central delivers data and intelligence via a pre-installed VMS on standard, off-the-shelf servers, and contains advanced functions including advanced live view and playback, thermal imaging, queue detection, low bandwidth adaptability, video linkage with access control, enhanced alarm management and smart wall operation – as in use at Care

Care Protect's IT &

patients who pose a high

risk to themselves for

importance of this mon-

itoring in ensuring the

patients' wellbeing, it was

critical that we were able

live monitoring and off-

The new focus re-

site video storage."

HikCentral manages the cameras, the smart wall monitors, and the video decoders that drive the images to the multiple screens in the Belfast hub. These screens cover 21 separate hospital sites for Care Protect private health provider customers. "One of the key fea-"The contract with the tures of HikCentral for company saw our opera- wall functionality," Johntion change to caring for son says, "Allowing us to manage multiple screens from the one place, rather self-harm. Because of the than having software to run an application to then put it on the screens."

Care Protect also Central's Smart Maps of the world's foremost function. "We use Smart suppliers of water based for interactive floor plans for the hospitals we monitor," Johnson explains. day products: from the quired an upscaling of "We have a selection of medical gloves used by office in Belfast (the com- the communal cameras doctors and dentists, and pany's head office is in live on the maps, and our the sound dampening in

was the use of Hikvision's

Video management via HikCentral at Belfast "The use of Hikvision Smart events on the cameras helps our reviewers to know how many people are in a room or a designated zone at a particular time," he says. "These sorts of smart features

HikCentral is a comintelligent platform.

makes good use of Hik-Maps within HikCentral Yarm, Cleveland). A key reviewers can click into cars, to the backing of car-

the relevant area and get an overview without having to further interrogate those floor plans."

plemented by the use of The appeal of this audio analytics. In some VMS, he says, was down cases this audio software to both the newly mature is used to trigger camerand advanced functions of as so that potential incithe latest version of Hikdents can be automatical-Central, as well as its very ly viewed and assessed by competitive pricing coma Care Protect reviewer. pared to its rivals. Care The results of utilising this Protect uses 500 HikCentechnology, according to tral licences and a variety Johnson, have been highof Hikvision cameras are ly successful. "We have deployed across the cusbeen able to upscale our tomer's facilities, predomoperation to 27 screens, inantly unobtrusive 4MP to accommodate 21 hosand 6MP high resolution pital sites for our biggest network mini domes. customer, to great satis-Hikvision Smart funcfaction from their end as tionality on those cameras it is safeguarding the vulnerable patients that they also proves extremely useful, Johnson says. care for," he says.

In addition to monitoring the live streams for certain hospitals, Care Protect's independent monitors are tasked with reviewing all recorded video to ensure that the quality of care provided can greatly assist our remeets the required stanviewers, allowing us to be dards. For this they utilise more efficient and effecthe services of Hikvision tive in responding to the cloud video technology

needs of patients."

Those in-built smart

camera functions are com-

partner, Manything Pro-Care Protect has almost 3,000 cameras recording video to the Manything

All video is stored offsite in the secure Manvthing Pro cloud and can be accessed via the Manything Pro app and website. Manything Pro software runs on Hikvision cameras and is constantly monitoring the bandwidth conditions on each site. If necessary, the software will dynamically adjust the video bit rate to ensure recorded events are sent to the cloud even in poor network conditions.

"We use Manything Pro for our cloud storage, so any recorded footage goes up to them, and we review through their website," he says. "Some providers that we work with aren't part of the live streaming through HikCentral in our Belfast monitoring centre. For these sites we also use the Manything Pro app and website to view the camera live streams."

British chemical plant in Czech Republic upgrades security with G4S security solution



A revamped G4S security solution at the chemical industry company Synthomer's operational centre in the Czech large private healthcare us was the new smart employees and valuable assets are protected from

> The Sokolov region in western Czech Republic, not far from the German border, is home to an operational centre for the British chemical industries company Synthomer, one polymers. Synthomer's polymers are used to manufacture many every-

pets in the office.

As with any site where chemicals are stored and used, security is a top priority and the G4S team in recently revamped the entire security solution at the site to give the best protection to Synthomer's staff, property and other

Risk-based approach

There are a number of risks and threats to consider when preparing the security for a chemical site such as putting in strong measures to prevent unauthorised entry into the perimeter and to key buildings within the site. You have to consider the assets that are held on site

that you do not want to fall into the wrong hands. such as important technology that is used in the chemical manufacturing process, as well as further restricting access to high hazard zones within the

As part of the new

integrated security solution, G4S redesigned the perimeter security for the site, which covers a large four square kilometers area, with cameras with video analytic functionality and new IP speaker systems. The cameras automatically detect potential intruders and instantly send information to the centre where G4S mobile patrol officers, who are permanently on site with patrol vehicles, can quickly respond.

for chemical sites the threats that have to be considered include terrorist attacks and organised crime attacks. G4S will also carry out annual risk assessments of the site and security solution for Synthomer to ensure that it remains as effective as possible in protecting the site and employees from

In any risk assessment

YOUR SECURITY BEGINS WITH YOUR PERIMETER



DETER, DETECT & DELAY INTRUDERS. BEING FOREWARNED IS BEING FOREARMED!

ECONOMICAL. RELIABLE. EFFECTIVE.



- They provide a higher level of detection capability to detect an intrusion attempt and set off the alarm which is then transmitted to the security personnel, police or the CMS.
- They are installed easily on existing walls or fences, or as a free standing secure energy perimeter fence, forming your first line of defence.
- The wires of a free standing secure energy fence serve as a barrier, alleviating the need to erect another conventional fence or wall, reducing cost.
- Safe, complies with International IEC Standard 60335-2-76
- Fences can be remote controlled and integrated with other systems such as, Perimeter Lighting, CCTV, and Alarm Systems.
- They reduce cost of security personnel.
- They last for years and have low maintenance cost.

APPLICATIONS:

BUNGALOWS, FARM HOUSES CAMPUSES, PRISONS, GOVERNMENT & MILITARY SITES, CRITICAL INFRASTRUCTURE FACILITIES...





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Scotch & Soda turns online and offline shopping Rome aims to cut pollution, accidents into a new experience with Checkpoint Systems



in Scotch & Soda clothing will soon have a mands of its consumers. much stronger chance of finding and purchasing the right trousers, skirt, jacket, or shirt, thanks to the retailer's new threeyear partnership with renowned RFID solutions provider, Checkpoint Systems.

Checkpoint Systems will tag, on average, 10 million Scotch & Soda garments with the latest generation of RFID labels per year, providing it with improved inventory accuracy across its estate. By utilising this technology, the retailer will gain full, real-time visibility of its entire stock holding, ensuring its omni-channel services, including 'click & collect', are optimised.

Scotch & Soda, which operates 166 stores in more than 70 countries, has been using Checkpoint Systems' clothing labels for more than 10 years. Now, the fashion brand is going a step further in its collaboration, by incorporating the latest generation of RFID labels, featuring the high performing Njord label with the Impinj M750 Chip, onto all its mer- preferred sales channel." chandise worldwide.

new technology, Scotch can now replenish stock delivery."

Customers shopping & Soda will be able to match its stock to the de-

> This means that the retailer will be able to have the right stock, at the right place, at the right time, in order to serve its the channel they chose to shop. To be able to optimise stock holding to this level results in omni-channel retailing becoming seamlessly coordinated, enabling stores to optimise services, such as click & collect.

Rik Kok, the Global Director of Procurement and Real Estate for Scotch & Soda, said "Thanks to Checkpoint Systems' latest RFID labels, we know exactly how many medium blue trousers are still in our distribution centres in Belgium, the Netherlands or Germany, for example, or how many extra jackets our shops in Japan need from our summer collection.

Rik adds, "In this way, we are not left with a large surplus of unsold items, at the end of a season and we can provide every consumer with the garment he or she wants, through his or her most

Scotch & Soda has ex- and wanting a garment, panded the relationship but are told that the size with Checkpoint Sys- or colour is no longer tems, as they are a trusted available. Scotch & Soda partner that could deliver believe this should nevthis project within just er happen and thanks

quickly and coordinate

Rik Kok said "Thanks to RFID technology, we customers, regardless of know how many garments we have of what size and colour, and where they are in our chain. This means, we can immediately help the consumer find the right garment. This also applies to when they buy clothes from us online. We refer the customer to the nearest click & collect, or buy & pick up point, where the desired garment is

it with the entire supply

chain, right from man-

ufacturer to distribution

centre, to shops and pick-

Geert den Hartog, the Key Account Director -Apparel at Checkpoint Systems, said "2020 has changed the buying behaviour of consumers worldwide. Shoppers no longer just buy clothes in a physical shop or online. tem at pedestrian cross-They buy through their ings will be progressively preferred channel, as and when it is convenient for when pedestrians are them. If retailers want crossing, using low-latento grow, they will have cy smart lighting on the to accommodate their road to make them more consumers with this om- visible with the aim of reni-channel behaviour."

up in our shop that is on

their daily route."

He adds, "RFID en-Imagine shopping sures that shops can perfectly align e-commerce, cording to Sony, the first click & collect and other image sensor to integrate online services. This im- AI processing functionproves customer loyalty by ensuring that the experience is enjoyable, from to extract real time meta-8 weeks' time. With the to Checkpoint Systems' mobile/desktop browsing data related to informaimplementation of this RFID labels, shop staff through to collection or tion of a free parking elaborated by neural net-

& gridlock with smart city trial



pedestrian about to cross

a street, or the number

stored, nor leave the sen-

sor, in line with privacy

This allows the city

to reduce the bandwidth

required, to scale it easily

using existing networks,

and to cut power and

communication costs.

And furthermore, this

system allows citizens'

privacy concerns to be

Traffic caused by

those seeking to park is

seen by the city as a key

contributor to conges-

tion, with the trial seek-

ing to quantify the scale

of the problem. Leverag-

ing Sony's imaging and

sensing technology to

serve social causes in the

cities demonstrates how

IMX500 sensors can al-

leviate some of the prob-

lems faced by busy cities.

between pedestrians and

vehicles is a key metric

used to measure pedes-

trian safety. The trial is

aiming to deliver a quan-

titative analysis of this

and prevent pedestrian

accidents through signal-

ling mechanisms installed

Tips have been installed

in Rome's city centre. A

preliminary phase was

undertaken to train a

neural network to identi-

fy available parking spac-

es as well as the number

of people waiting at the

bus stops, entering / leav-

ing the bus and waiting

to cross or crossing the

Tip consists of two sen-

sors looking over the

roads around and the

parking spaces. The sen-

sors send real-time data

Every Genius Smart

at the crossings.

The average distance

requirements.

addressed.

Sony Europe has announced its IMX500 image sensors with AI pro- of people getting on / cessing functionality are off a bus. No images are at the core of three smart city trials being run by Envision in the municipality of Rome. These are intended to cut the city's transport-related pollution and accidents at pedestrian crossings.

The trial's primary objective is to evaluate and deliver a smart parking system using IMX500 to reduce pollution and gridlock from those cruising to find a parking space. For this, the trial seeks to evaluate the effectiveness of such a system, with drivers alerted via a smartphone app before being directed to the free parking space closest to the driver's destina-

In addition to this, the test also includes a study of smart city systems that will optimise capacity located, or they pick it and increase the use of its public transport network by implementing smart bus shelters, counting those getting on and off each bus - identifying overloading to ensure better provisioning of buses and cost optimisa-

> Finally, an alert sysactivated to alert drivers ducing the city's accidents on pedestrian crossings.

The IMX500 is, acality. The configuration used for this trial allows space, the presence of a works on the exact loca- Europe.

tion of a free space, the pedestrians' presence and the number of people queuing at bus shelters.

The exact location of

the free parking space data is streamed in real time through the Smart Tip. The data is then immediately processed by the sensor integrated in the Smart Tip, using neural networks, and then sent to the cloud software platform of the partner company, Envision. The coordinates of the free parking space's location are overlaid in real-time on a map that is displayed on a mobile device used by the driver who is heading towards

Pedestrians' presence is measured and compared across different locations. The neural network system detects pedestrians at the zebra crossing and a lighting signal is sent to the drivers to alert them.

Data of queue length

and people getting on and off the bus are processed by the sensor in the Smart Tip through the neural network and sent to the Envision software platform which aggregates them and makes them available to personnel managing the public bus network in order to enhance the planning and scheduling of the bus transportation network. A "crowded" figure of merit is provided to signal when the bus is running at over capacity to avoid overcrowded buses, better manage the transportation network and improve citizens' journey experience. The trial is conducted in the City of Rome collaboratively by a number of start-up companies in the Italian ecosystem and with the support of Sony

Fire protection systems market to hit 84.6 B USD by 2026



system market was valued policies, regulations, and at USD 62.1 billion in government mandates; reach USD 84.6 billion human life and property by 2026, according to due to fire breakouts. the latest research information from Marketsandmarkets.

The fire protection system market report includes Covid-19 impact and suggests that market growth is being fuelled by the development of the construction industry, an increase in the loss of human lives & property due to fire breakouts, stringent regulatory compliances, and a rise in the adoption of wireless technology in fire detection systems.

ments are expected to hold the largest size of the fire protection system market from 2021 to 2026. A fire suppression system starts operating once it receives fire alerts from different sensors and detectors. By product, the fire suppression market has been segmented into fire sprinklers, nozzles, caps, and control heads; fire suppressors; and fire detectors and control panels. Fire suppressors are used to prevent the spread of fire and put it off. Fire extinguishers spray water, foam, carbon dioxide (CO2), and other fire-resistant materials to control fire. The growth of this market is propelled by technological advancements and innovations in

the construction indus-

The fire protection try; rise in the number of in the mining sector. Gas-2021 and is expected to and increased damage to and Inert) and sprinkler

Maintenance services include timely servicing and auditing of fire protection systems to ensure that fire protection systems meet all the required fire safety standards and function appropriately during an emergency. Maintenance services include inspection, testing, servicing, and repair of components, and monitoring of fire protection systems and their components. The services comprise equipment supply, system testing and com-Fire suppression segmissioning, and regular

preventative maintenance. The market for oil, gas, and mining vertical is expected to grow at the highest CAGR during the forecast period. The oil, gas, and mining vertical involves materials such as petroleum, crude oil, flammable gases (such as butane), and coal. These materials are flammable; therefore, to avoid fire accidents, advanced fire protection systems are used in

Highly efficient fire detection and prevention systems are required in this sector to prevent accidents. Clean agent fire suppression systems, dry chemical fire suppression systems, and water and max Viking, and Securifoam sprinklers are used ton.

based suppression systems (CO2, FM200, Novec, systems are used in the oil & gas sector.

APAC presents best growth opportunities

APAC is expected to be the fastest-growing market for the fire protection system market during 2021—2026. Growing urbanisation has increased construction activities, which are contributing significantly to the growth of the market in this region. APAC is a developing region, and countries such as China, Japan, and South Korea are driving the overall growth of the fire protection system market here. The demand for fire protection systems is expected to increase with technological and economic advancements. Additionally, according to the analysts, governments in this region have

Major players involved in the global fire protection system market and mentioned by the research, include Johnson Controls, Carrier Global Corporation, Honeywell International, Siemens, Halma, Robert Bosch, Hochiki, Gentex, Mini-

tection system sector is

execution of these poli-

ees about common fire hazards in your industry, but it can also help them prevent fires. This is one of the most important parts of fire safety courses, as it is much easier to prevent a fire than it is to put one out. If employees in each part of your building know how to prevent fires, you will protect your business from fire damage and can even save the lives

Teaches Proper Re-

of your employees.

In an emergency like a fire, it can be easy to lose focus and panic. However, with fire safety training, you can teach your employees how to properly respond to this type of emergency.

Have your employees practice their training during a fire drill by going through your fire safety plan, using your emergency exits, and more. This will make it more likely also laid down fire safety that they will remember norms, and the fire pro- the proper response if a real fire were ever to hap- to train your employees expected to grow with the

Identifies Emergency

A vital part of fire safety is having a fire employees. Not only do

you need to have a plan, in using any type of fire fighting equipment, this but you want each of your employees to be familiar training can help them with this plan. learn how to use this equipment in an emer-With fire safety train-

a fire in the building.

Trains

Equipment

Another huge bene-

ing, you can identify Creates a Communicaemergency routes and tion Plan exits. Physically showing your employees where Finally, utilising fire each emergency exit is will

safety training is vital bemake them more likely to cause it helps you create be able to find it, even in a communication plan. the chaos that comes with In an emergency, it is important that you know how you can communi-Having your emergencate with your employees cy exits clearly marked and and other people on the free from any obstacles is vital to having a safe way premises of your building. Having a method of to get out of the building. communication during an Make sure that you do not emergency makes it easier store anything near emerto confirm that everyone gency exits as they may be makes it out of the buildnecessary to use for youring safely and that each self and for first respondof your employees is safe. ers that come to your aid It can also help you find ways to quickly and effec-**Employees** tively tell others about the to Use Fire Fighting emergency to get the fastest response possible.

Fire safety training is fit of fire safety training an essential tool that can is that it allows a profeshelp you and your emsional fire safety specialist ployees stay safe in the event of a fire and even to use fire fighting equipprevent fires from hapment. Most employees pening in your workplace. don't even realise that By teaching your employthere are different types of ees how to use fire fightfire extinguishers that are ing equipment and fire used for different classes hazards in the workplace, evacuation plan for your of fires. Because so many you can potentially save people are not confident

Important to integrate fire safety with security at workplace

The scale of your business doesn't matter when it comes to the safety of your workplace and everyone who works there. Every organization needs an effective fire alarm and security system, this not only ensures the security of your employees, but it also helps them to feel safe at work, boosting morale and confidence.

Your business needs fire and security services today more than ever. From fires to vandalism Not only does training and theft, businesses face

no doubt that both fire protection and security systems are essential. But is it better to maintain separate fire and security systems, or integrate the two together?

Advantages of Integrating Fire Protection and Security Systems

There are plenty of compelling reasons to consider integrating these services. The positive aspects of combining these systems include:

> Unleash your Full Potential: Technology is advancing regularly,

and we are now seeing progress like never before. Modern systems are being designed based on a single protocol comprising different security and safety functions. Some functionality can be shifted to the cloud to deliver a seamless safety experience, with more accessibility and flexibility.

ment: Integrating your fire protection and security systems makes them easier to manage, and allows you

Impeccable Manage-

Why employees need fire safety training at the workplace

Globally, less than 50% of occupants in buildings are confident that they know what to do and where to evacuate in the event of an emergency. Because so many offices lack the training and knowledge of what to do in a fire, it can lead to more fire damage and even loss of life.

One of the biggest employees know that benefits of employee fire damaged power cords are safety training is that it a common fire hazard, teaches your employees they can recognise these about common fire hazards in your workplace. Understanding potential risks and threats in your workplace can help teach your employees how to

something to prevent a fire, such as notify an office administrator to get it taken care of.

as an issue and can do

for fire safety in the work- a range of security risks For example, if your place teach your employ- and challenges. There's

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to manage them to a higher degree. With the help of graphics packages and software, you only need one user interface to monitor both your security and fire protection systems. This system offers a holistic view which offers all kinds of efficiencies. For example, a fire in the building could activate your CCTV camera and would help you to identify the source of the fire.

- 360-degree Safety: Increased safety is another incredibly important benefit of integrating these systems. Integrating your fire protection and security systems allows for a smooth flow of critical information when you most need it, and confirms emergencies via multiple tools. This helps to avoid false alarms and reduces response times. Integration makes it easier to ensure that your system is tailored to align with their specif-
- ic needs. • Easier to Operate: An integrated system is easier to manage compared to operating different products simultaneously. Such systems are controlled from a single point, and this allows users to identify the source of an emergency quickly and respond in a more timely manner. can be a challenge and
- Cost-Effective: Integrating security and fire systems can also allow you to significantly reduce maintenance Inspections

costs are halved as your business will be working as a single life safety service company. This translates into a reduced number of service visits each year, as well as less ground security staff and surveillance staff.

ing Security and Fire **Protection Systems**

As you can tell, integration has many advantages. However, nothing is black and white and this approach can have its challenges too:

- Contradicting Requisites: Complete integration of both these systems can be challenging as they can have opposing requirements. For example, in the case of a security alert, doors need to be shut securely. On the other hand, fire safety protocols would dictate otherwise. These differences prevail in other scenarios too.
- Regulatory Concerns: Fire alarm products must be tested and verified by a qualified technician to ensure that they comply with laws and regulations. Integration of further elements and features can be a challenge for manufacturers, especially when they have to adhere to all regulations. Updating products and keeping to access control. them aligned with the evolving technology

cuted well. Common Connection to Emergency Services: Fault detection

systems can sometimes lead to false alarms and initiate the wrong response. This issue can be doubled because the integrated system has a common connection to emergency services.

By now, you're prob-Challenges of Integrat- ably convinced that it is a good idea to fully integrate your security systems and fire protection systems. Every new technology has its own cons, but the ease of use, and its many benefits arguably outweigh the disadvantages. Similarly, nothing can surpass the level of security and safety you achieve when you integrate these systems.

> It will be difficult to filter out sporadic faults, but with consistent improvements, your business will be able to master this integration and benefit greatly from its use. You won't regret investing in integration!

Your staff and the buildings where they work are the pillars of your business. The most effective way to enhance the overall safety of your workers as well as your assets is through the integration of fire protection and security systems. Loosely translated, this means that you can greatly benefit from linking everything from your security systems to your smoke alarms and fire sprinklers

You cannot achieve the same results with manual processes. Let the technology work its charm and diffuse emergencies. Maintaining safety and security should be your top priority!

Vismo launches Notify platform to caution members of the organisation during an emergency incident

this is not always exe-



or highly localised, staff can be notified of an incident based on their proximity to it and risk levels they face. The system allows organisations to greatly reduce and manage business and personal

When an incident occurs or is expected to occur, Vismo Notify enables organisations to act immediately and provide critically important notifications to their staff, including how to be as safe as possible until help arrives if it's

ment, who have full control over message content.

methods include secure/

encrypted delivery via the

ience, security and effectiveness have been fully

Vismo App or additionally by email, SMS and Text to Voice. All or any of these options can be selected and continuously used until a message is responded to if required. Response options ensure that organisations can quickly understand how safe an employee is or feels for full auditability. The options are fully customisable and required. Notifications can easy to add to notifica- event of an emergency.

they are - at their office desk, working from home, travelling anywhere in the world - and at any time." Its ease-of-use, resil-

"In an ever changing

world, more and more

employers are keen to be

more proactive with man-

aging their risks relating to

mobile or globally travel-

ling staff," says Craig Swal-

low, Vismo CEO. "Vismo

Notify ensures staff can be

reached no matter where

In summary, Vismo Notify is designed to help protect all employees, no matter where they are based or travelling. By using multiple delivery methods, staff can be reached effectively. Employees gain peace of mind knowing they can be con-

tacted and assisted in the

IoT technology can

also improve the upkeep

of vital fire detection sys-

tems. For many large fa-

cilities, fire alarm systems

are a patchwork of differ-

ent alarms made by differ-

ent manufacturers, with

maintenance procedures

tested and proven under

rigorous conditions across

How lot is Changing Fire Safety



The most prominent applications of the Internet of Things (IoT) are driverless cars and home appliances. In the world of fire safety, however, its most exciting application may be sensors in buildings. The collection and application of atmospheric data could dramatically alter our approach to fire smoke, but could also revention and firefighting and ultimately help to to the intensity of fires, al-

IoT sensors form a major part of what are known as 'smart buildings'. Smart buildings are properties controlled in part by autonomous computer software, known as Building Management Systems (BMS). These sensors can maintain a specific temperature in different rooms; turn lights on and off, and other tasks, which benefit from external data.

The same principles applied to fire safety open to fire crews. www.securityupdate.in

relying on the readings from each control panel. and manual storage. IoT up numerous possibilities for entirely new ways of fighting fires. Temperature sensors are currently configured to detect temperatures in normal ranges, but special heatproof sensors can detect the temperature of fires. This would not only detect fires before they emit give fire-fighters a clue as

Knowing where in a building a fire is taking place is also invaluable. At present, you may have an idea of where detectors were set off or where an alarm was pulled, and you might get some witness testimony. IoT sensors can confirm this beyond all doubt, showing you not just where a fire started but where it is spreading, and how quickly. All of this information can be transmitted automatically

safe.

lowing them to alter their

equipment and approach.

can utilize a single point of contact (e.g. a phone or computer interface) to bring together data from various alarm systems, allowing a user to quickly view maintenance logs and data. By sensing exactly where the fire is, the nature of the fire and whether there are any occupants in the room, a smart IoT enabled fire system can deploy different measures

to specific rooms, minimizing damage to the broader facility. New and intelligent systems can integrate information from almost every make of fire alarm systems via the internet,

so it can be viewed on mobiles, laptops or tablets from anywhere in the world. This data can also be used for compliance purposes and prove that whoever is responsible has done everything they can to ensure a building is

Al and ML - The game changing duo in the SaaS industry count the designer's idea



of the product. If the Language Processing) solution providers to

also being popular because they provide a greater degree of autoenabled by AI. AI essentially aggregates large quantities of data and filters it into automattion allows companies

MarTech can be a range of software and tools that assist in achieving marketing goals or objectives, and is a growing industry, both in size and scale. When MarTech software adopts AI applications in order to boost the RoI and effectiveness in SaaS and Cloud operations, we can safely term it AI Marketing.

Marketing Technology

For instance, while running cross-promotional activities or loy-

alty programs, large based application proorganizations will be viders should continue collecting a fair amount to deliver the competof data for AI and ML to itive benefits of AI and analyse. The analysis can ML to customers. Comhelp businesses to nail panies who want to stay relevant and updated do down their insight into not have a choice but to potential customers. adopt both the technolo-The impact of ML gies while also ensuring and AI will be clearly visfull compliance with all ible practically in every regulatory requirements application and indusand keeping customer

at all times.

Credits: Vikas Bhonsle, CEO, Crayon Software Experts India

data fundamentally safe



help the product teams

to understand their us-

age behaviour and also

their preferences. Con-

sumers today have the

choice of multiple pro-

viders to switch to, in

case their needs are not

specifically served by the

The SaaS industry's

growth can be credit-

ed majorly to the accu-

mulation of Big Data

- a massive pool of un-

touched information for

companies. But the data

volumes are ever-in-

creasing, and companies

are struggling to man-

age the same. AI and

ML together can enable

a much more automated

means of mass data pro-

tomated data analyses,

businesses can under-

stand their product us-

ages trends and identify

areas that demand fur-

ther improvement. This

helps not only business-

es to prevent and resolve

any potential outages

faster, but also to iden-

tify redundant features

that can be either dis-

continued or changed.

Businesses are better

equipped to understand

customer usage patterns

and can use this data

to give intelligent feed-

Big Data

for both individual and enterprise, and segmenting their markets to specific customer size. Analysts believe the market will grow @12% every year and by 2022, the volume of investments will reach a staggering \$141 billion.

However, in all this, there is one common underlying factor - the foundation of all these solutions is built on Artificial Intelligence (AI) and Machine Learning (ML). AI and ML have been the two most influential factors to impact SaaS businesses and have become the fundamental constituents of the SaaS landscape. With AI's infusion, the industry today can see business categories that were non-existent earlier. AI has made several enhancements to the SaaS solutions that are currently driving the market growth.

Following are four areas, where we can see the game-changing impact of AI and ML in the SaaS industry.

Tailor-made services

Consumers today are looking for personalized user experiences from any product or service - be it B2C or B2B. A one-size-fits-all template is an obsolete concept, especially when it comes to SaaS-usage. For instance, in general practices UIs are first designed taking into ac- Automation

interfaces and user expe- er needs automatically, riences (UI/UX). Applywith less reliance on huing AI, the customer's man resources. usage history data will Chatbot is a great reveal patterns that will

> bot is a computer program designed to provide automated replies to preliminary queries of customers visiting a website or an app. It dismisses the need for a human assistant round the clock. Hence, companies can respond and troubleshoot customer inquiries automatically, making customer relations management faster and efficient. It can be an extension of the larger customer service team. An example could be, the banking services using AI to register the requirements of the customer before connecting them to the appropriate department, where they may have a person-to-person interac-

el further.

Marketing

Marketing activities today are leveraging AI principles and applicato marketing concepts for targeting, acquiring and retaining customers.

example here. A chat-

livan webinar highlights the impact on two key emerging trends from rapid digitalisation and following the onset of the Covid-19 pandemic digital identity management and value chain compression on societ-Covid-19 has accelerated digitalisation across industries, business models, and touchpoints, says Frost & Sullivan analysts. As communication and sharing of informa-

However, chatbots using secure, portable, are not expected to reand verifiable credentials place human interacin real-time. Therefore, tions completely. AI will a digital identity system add more value when it compiling personal inis used in conjunction formation such as name, with human-centric serpassport number, health vices. Together, they data, and financial incan drive the SaaS modformation that can be linked to a secure digital

billion globally by 2030. The public sector, finanthe companies (financial cial services, insurance, institutions) using blockand healthcare industries increasingly deploy pilot projects to test the market's effectiveness and applicability. Some of the growth opportuni-

ties expected in this space

include blockchain-based

identity management,

digital

decentralized

digital identity custodians, and personal cyber Another emerging trend due to rapid digitalisation is the compression in value chains, tion for further services. users must protect access which reduces the numto their identity online ber of steps in customers' purchase journeys Enterprises are looking at innovative models that eliminate the middlemen and leverage digital platforms to reach the end customer. Retailers are adopting direct-to-consumer models that displace the need for physdevice or account will be ical stores.

> Value chain compression offers several economic benefits, such as reducing capital and infrastructure costs. For

identity market



try, in the coming few

years. Today, almost all

modern business appli-

cations are delivered via

the cloud. Having that

settled, SaaS and cloud-

Covid-19 unlocks \$80b digital

chain to reduce infrastructure costs by 30%. In the webinar Frost

& Sullivan experts Malabika Mandal and Vinay Venkatesan discussed the predicted key trends arising in the near future that will create avenues within emerging value chains and digital identity management.

Those subjects included investment potential and growth opportunities in digital identity management; the role of digital identity management in realising economic potential, improving national security, and fostering social inclusivity in the next decade; exploring how traditional value chain models will evolve in the near future and what parts of the value chain will get compressed; and, the emerging business models supporting the value chain evolution and understanding how these new proficiencies in the value chain will impact the customer's

Vismo - the global lo- mass notification platform expected - or simply when

cation monitoring and for organisations to notify updating staff with a new safety specialist - announc- any or all members of staff company policy. es the new Vismo Noti- during an emergency incify, an easy to use resilient dent, when an incident is

Irrespective of geo-

design is not upgraded sooner or later, it will lead to the discord of mation, again largely options and redundan-Over the past few cy. AI and its subset like years, we have been ob-ML and NPL (Natural serving the global evo-

lution of the SaaS market. SaaS solutions are today spanning across horizontals and vertiis making it possible for ic processes. Automadesign tailor-made user to respond to custom-

tions are directly applied

Frost & Sullivan finds and ML techniques. AI that the digital identity management market

www.securityupdate.in

is expected to register strong growth over the next decade and has the potential to unlock in-Here comes the term vestments worth \$80 ing, clearing, and risk journey.

a critical enabler.

tion move from a phys-

ical to digital medium,

example, blockchain can reduce several steps around validation, track-

14 ▲ SECURITY UPDATE **TECH TALK** OCTOBER 2021

Hikvision India Tech-Knowledge Talk Series on MinMoe Face Recognition Terminal Provides Cryptic Product Knowledge



conducted Hikvision MinMoe and technologies, they Face Recognition Ter- develop the product minal product introduc- knowledge and technoltion and training event ogy awareness among 'Tech-Knowledge Talk' Regional Distributor on PRAMA India App (RD) and Sub Regionplatform. The recently al Distributors (SRDs) concluded third edition community. We hope Talk' was focused on the ful to enhance the skills newly launched MinMoe and knowhow of install-Face Recognition Termi- ers, system integrators nal product introduction and security professionand training. This event als," said Mr. Ashish P. got a very good response from the Regional Dis- Prama Hikvision India tributor (RDs) and Sub Pvt. Ltd. Regional Distributors (SRDs) from the PAN

India regions. This was the third using keys, pin codes, edition of Hikvision's 'Tech-Knowledge Talk' LIVE session series. In this LIVE session, Hikvision's product experts discussed the latest range of MinMoe Face Recognition Terminals. They presented the market potential of these devices, features and applications learning of the product offerings. It was an insightful and engaging session where viewers participated in the LIVE quiz competition and won prizes as improved efficiency to

duction and training ever." Series 'Tech-Knowledge Talk' on PRAMA India App platform was jointly conducted by Mr. Prashant Nangare - Product Head, Access Control, Prama Hikvision India Pvt. Ltd. and Vinit Narvekar, Manager- Customer Trainings, Prama Hikvision India Pvt. Ltd.

line sessions are helpful ket will drive the market tions.

India to evangelize the USPs demand," said Prashant of our new products 'Tech-Knowledge these sessions are help-Dhakan, MD & CEO,

He further added,

"Authorized access has come a long way from cards, and fingerprints. We now find ourselves stepping into the era of face recognition. The use of face recognition in access control and time attendance has been an inevitable trend, which creates advantageous "touch-free" experience. With advanced deep technology and practical functions. Hikvision MinMoe Face Recognition Terminals bring better security and access control and time attendance tracking, The product intro- making them easier than

"The latest trends in recognition terminals. MinMoe range of face recognition terminals tion, this session elaboproduct segment, in- rated on the need for a cludes facial recognition touch-free access control and artificial intelligence system. Mr. Prashant sumers becoming apatechnologies. The access Nangare explained the thetic with security, as control market in India technology aspects and 41% of consumers admit is expected to grow at a evolution of access conto re-using the same passsteady rate in the Metro trol systems from card to word or introducing simand Tier- II cities due biometric and the latest ple minor variations, into increased demand for touch-free face recog- creasing the risk of hacks "We are happy to touch-free access con- nition terminals. This and breaches from weak introduce the MinMoe trol supported by face was followed by a walk- or stolen passwords. Fur-Face Recognition Ter- recognition and time through of various mod- thermore, continually minal products in Hikvi- management solutions. els under the MinMoe updating and refreshing sion's 'Tech-Knowledge A clear trend towards series. The session also passwords, and PINs is Talk' LIVE online ses- Touch-Free Access Con- covered various applica- unappealing and inconsion series. These on- trol products in the mar- tion scenarios and solu- venient. Consequently,

Nangare, Product Head-

Access Control, Prama

Hikvision India Pvt. Ltd.

He further added, terminals are available in following models - DS-K1T341, DS-K1T331, DS-K1T671 DS-K1T607PEF Series. The application scenarios of Hikvision MinMoe terminals include, corporate offices, financial institutions, banking and institutions, financial industrial parks, retail stores, manufacturing units, schools and educational institutions." "The Hikvision MinMoe devices are available in three categories - Value Series, Pro Series and Ultra-series," he added.

"The MinMoe Face Recognition Modules for Turnstile can easily integrate with turnstiles to provide the user with a complete access solution. The integrated terminal-turnstile solution is particularly useful for commercial buildings, banks and so on," said Vinit Narvekar, Manager- Customer Trainings, Prama Hikvision India.

covered all aspects of MinMoe range of face Given the current situaSmart homes get smarter with biometric access

strengthen the security

and convenience of home

tion, such as fingerprint

recognition uses person-

ally identifiable infor-

mation, which is stored

securely on-device. By

using on-device biomet-

ric storage, manufactur-

ers are supporting the

38% of consumers, who

are worried about priva-

cy and biometrics, and

potentially winning over

the 17% of people, who

don't use smart home de-

vices for this very reason.

Compared to con-

ventional security, such

as passwords, PINs or

even keys, which can be

spoofed, stolen, forgot-

ten or lost, biometrics

are difficult to hack and

near impossible to spoof.

Consequently, homes

secured with biometric

smart locks are made saf-

er in a significantly more

seamless and convenient

domestic lives doesn't

end at the front door with

smart locks. Biometrics

Physical access in our

way for the user.

Biometric authentica-

access control.



Household adoption a real opportunity to of smart home systems currently sits at 12.1% and is set to grow to 21.4% by 2025, expanding the market from US\$ 78.3 billion to US\$ 135 billion, in the same period. Although closely linked to the growth of connectivity technologies, including 5G, "Hikvision MinMoe face tech-savvy consumers are also recognising the benefits of next-generation security systems, to protect and secure their domestic lives.

Biometric technologies are already commonplace in our smartphones, PCs and payment cards, enhancing security without compromising convenience. Consequently, manufacturers and developers are taking note of biometric solutions, as a way of levelling-up their smart home solutions.

As with any home, security starts at the front door and the first opportunity for biometrics to make a smart home genius lies within the smart lock. Why? Relying on inconvenient unsecure PINs and codes takes the 'smart' out of smart locks.

As the number of connected systems in our homes increase, we cannot expect consumers to create, remember and use an ever-expanding list of This LIVE session PINs. Indeed, 60% of consumers feel they have too many to remember and the number can be as high as 85 for all personal and private accounts.

Multi-tenanted sites, such as apartment blocks Doing this risks conand student halls, can also become smarter and more secure. With hundreds of people occupying the same building, maintaining high levels of security is the responsibility for every individ-Biometric smart locks limit entry to authorised tenants and eliminate the

leave the building permanently, their data is easily removed from the device. Like biometric smart

locks in general, the benefits extend beyond the front door, but also throughout the entire building, such as washing rooms, mail rooms, bike rooms and community spaces, such as gyms.

for costly lock replace-

ments and when people

Different people might have different levels of access to these areas, depending on their contracts, creating an access control headache. But, by having biometric smart locks, security teams can ensure that only authorised people have access to the right combination of rooms and areas.

Additionally, if building owners have options. The biometric sensors can be integrated into the doors themselves, thereby allowing users to touch the sensor, to unlock the door and enter. Furthermore, the latest technology allows biometric access cards to be

This embeds the sensor into a contactless keycard, allowing the user to place their thumb on the sensor and tap the card to unlock the door. This may be preferable in circumstances where contactless keycards are already in use and can be

has endless opportunities In tandem with the to ease our daily lives, growth of the smart replacing passwords and home ecosystem, biomet-PINs in all devices. Biorics has real potential to metric smart locks proenhance our daily lives, vide personalised access by delivering smarter, control to sensitive and seamless and more conhazardous areas, such as venient security. Signifimedicine cabinets, kitchcant innovation has made en drawers, safes, kitchbiometrics access control en appliances and bike locks. They offer effective security with a touch or

Furthermore, today's sensors are durable and energy efficient. With the capacity for over 10 million touches and ultra-low power consumption, smart home system developers no longer have to worry about added power demands. As consumers continue to invest in their homes and explore new ways to secure and access them, biometrics offers a golden opportunity for impact of lost or stolen market players to differkeys, and passcodes. Furentiate and make smart biometric solutions have thermore, there's no need homes even smarter.

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Oberoi Commerz 2, International Business Park,
18th Floor, Near Oberoi Mall, Off W.E. Highway,
Goregaon (East), Mumbai - 400 063.
Tel: +91-22-4041 9900, 2846 9900
Web: www.hikvisionindia.com



Sales: +91-22-4041 9944, 2846 9944 sales@pramahikvision.com



Technical Support: +91-22-6822 9999, 3322 6060, 2846 9999 support@pramahikvision.com Toll Free: 1800 222 699

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