

DETEKTOR



International

Publisher's comment

Obstacles for growth

Security technology market

The IoT comes to commercial security

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Chinese AI unicorns target smart cities and public security

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Mobotix launches new platform and cameras

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AI in focus at the world's largest security exhibition

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OCT 20–22 2020





ISSN-1651-3800 published by **armedia**

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- No part of this magazine may be reproduced without prior permission from the publisher.
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- News releases can be sent to intnews@securityworldmarket.com

Printing

Stibo Complete, Sweden, 2019



Lennart Alexandrie, Publisher

Obstacles for growth

In 2019 the IoT-revolution got a definite grip on the security technology market. Now, IoT is not just a hype, but a concrete reality that has been fully adopted by the market leaders of the security industry. This trend was clearly confirmed at all major events in 2019. At ISC West in Las Vegas, Ifsec in London and at CPSE in Shenzhen, there was a significant increase in the number of security technology solutions launched that clearly contribute to further enrich the IoT-market with opportunities.

Several examples of IoT innovations are also to be found among the 12 products/solutions that gained recognition through the recent presentation of the Detektor International Awards 2019 that took place at Sectech in Stockholm in November. The technology was not only present in the three products that were awarded in the IoT category, but it also featured strongly in the video surveillance category.

With an increasing number of open platforms and cloud-based solutions the security industry is ready to meet the market demands for scalability and flexibility. It will further open up a market with service-based business models where the customer's needs for specific functions can be met cost efficiently. With the use of today's network technology, the security industry will also be able to offer values beyond security, using the technology to save costs, increase effectiveness and profitability for the customers.

IoT means huge opportunities. Smart buildings and smart cities will be highly dependent on security. With artificial intelligence (AI) we will see further development in the processes of developing smart buildings and smart cities. The progresses in AI are fast. At this year's final big event CPSE in China, there were several exhibitors displaying solutions based on AI. However, the way to use AI in Europe will certainly be different from the way it is used in China due to privacy laws and legislations within the EU.

The soon to come 5G, will further boom the IoT-development and create real opportunities to

develop smart cities. So there are reasons to believe in continuing strong growth for the security industry. Especially since the demand for security is increasing in most countries due to increasing severe criminality (not least IT-related criminality) and of course the terrorist threats. But there are also obstacles.

The strong growth for many years has also been based on a general economic boom in most industrial countries. Now, there is reason to be more cautious in forecasting the future. The trade war between USA and China is a factor that accelerates the end of the boom. What this leads to very much depends on the outcome of the negotiations between the two superpowers.

So when summarising 2019, it must be said that it is a year in which, more than anything, politics has played a direct role on the market for security technology. Especially since the US government decision to blacklist the video surveillance manufacturers Hikvision and Dahua, among 26 other Chinese tech companies. The reason behind the decision to blacklist 28 Chinese companies, according to the US Commerce Department, is that "the entities have been implicated in human rights violations and abuses in the implementation of China's campaign of repression, mass arbitrary detention, and high-technology surveillance against Uighurs, Kazakhs, and other members of Muslim minority groups."

This ban against the two video surveillance giants – with an estimated total global market share of more than 30 percent – means that they are not allowed to buy components from US companies. Also Sensetime Group Ltd and Megvii Technology Ltd – leaders in facial recognition technology – are also included on the blacklist.

The ban will of course affect Hikvision and Dahua but also their US partners. If countries in Europe and Asia also take similar actions against Chinese companies then the impact of the trade war will be even more severe, not only affecting the growth of the security market but the world economy as a whole.



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CPSE 2019 Shenzhen

AI in focus at the world's largest security exhibition.

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Special feature: Video surveillance & analytics

AI Technology: The buzz & the debate and video surveillance & analytics: Finally a staple in surveillance.

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Special feature: Smart buildings & homes

Today's buildings have a lot more sensors and much more data is being collected than before – the buildings are "smart".

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Detektor International Award

The best security products of the year!

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Sectech Denmark

The first Scandinavian security event in 2020

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HIGH-END CAMERA  TOP PERFORMANCE LENS



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FUJINON

Dahua Technology Secures Allianz Parque with AI-powered security solution

Capable of performing data analysis and facial recognition, the company's system adds innovation to the arena safety project.

Allianz Parque has become one of the most modern multipurpose arenas in Latin America since it was built in 2014 by WTorre Properties. The stadium is located at the same place of the old Palestra Itália Stadium with a capacity of more than forty thousand spectators.

With an eye on the market, the management of Allianz Parque constantly invests in advanced technology and new solutions to keep the project in line with the most current standards of innovation in the world. Dahua Technology cameras with embedded artificial intelligence systems could help the security team of the arena work more efficiently and productively, so that the stadium is capable of dealing with different kinds of scenarios, such as large-scale concerts, major celebrations and, especially, football matches at Sociedade Esportiva Palmeiras.

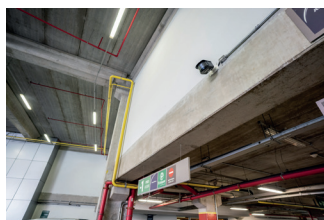
Challenges

The installation of the entire system took around 90 days. According to the General Manager of Allianz Parque, the biggest challenge is to implement the new system with the arena in operation. "We have to carry out the replacement without any impact to the security team. But with the support of the Dahua Technology team, we are able to do the job quietly without any major changes in our initial planning," explained Rigotto.

Solution

In the project, devices with latest generation embedded artificial intelligence technologies were used. Many of their functions go beyond an image captured by an ordinary camera. Here are the camera models and technologies used:

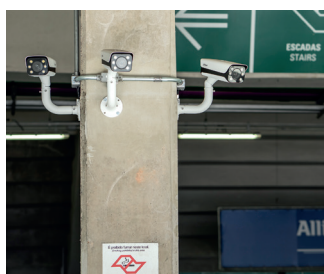
- DH-IPC-PF83230-A180 - panoramic camera with four 8 Megapixel CMOS sensors, which generates a single 180-degree image of 32MP using H.265 compression technique;



- SD6CE245UN-HNI - PTZ-style positioning camera with various technologies, such as Starlight, which allows viewing of images in very light colors (less than 0.005lux). It has a 45x zoom system, plus an infrared illumination that can reach 250 meters away;

- MPT310 portable recorder, used with lapel cameras, making recording and transmission of high-definition audio and video online from the point of view of the agent close to the events;

- DH-IPC-HFW8242EN-Z4FD-IRA-LED - special network camera that captures human faces through AI algorithm, embedded in a chip with Deep Learning Technology. It gives the facial detection server a good deal of processing work, since the camera itself locates the faces of the video image and analyzes attributes such as gender, age, facial expressions and whether it has glasses;



- Network camera recorder and face database manager DHI-IVSS7016DR-4T. It works in conjunction with the CMS DSS PRO that makes the recording of the videos in the network, in addition to managing and analyzing the faces pre-registered in the database of employees and service providers of Allianz Parque. User can also set a black list and the recorder will alert once unauthorized persons detected in a certain sector. The server can, in real time, work by processing the input stream at the gate opening, being able to recognize up to 40 faces per second in the Arena, detecting the faces and comparing them with the database prepared to issue field safety alerts in up to a few seconds;

- Video Wall, with 6 46-inch LCD screens (DHL460UCMES), forms a 2x3 matrix and a Dahua controller (NVD0905DH-4I-4K), which can display 4K, live images, advertisements and bulletins in a professional manner.

Benefits

"We are very proud to have this partnership with Dahua Technology. Through it, today, Allianz Parque now has a state-of-the-art facial recognition system, which

has artificial intelligence and data analysis, and can be integrated into the public safety team system," emphasized Eduardo Rigotto, General Manager of Allianz Parque. Rigotto pointed out that there are always possibilities for modernization. "The market has changed in five years and in order to keep us in the lead as an inspiration for other spaces, we need to continue investing in new technologies," he said.

In 2018, Dahua Technology has successfully delivered the largest RingLed 360° in Latin America, which totals 580 meters of panels for all bars in the arena. The innovative design with LED panels from Dahua Technology was developed by Digital Arena, a pioneer in the field of digital media for stadiums. "Our philosophy is to deliver large projects that make a difference not only to the customer but also to the people who will use their space," said Fabio Lopes, Channel Sales Director of Dahua Technology Brazil. Moreover, he added, "Allianz Parque is an entertainment venue where spectators aim to watch a great show with total safety and comfort. This project aims to demonstrate that Allianz Parque is one of the safest arenas in Latin America."

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IP bullet cameras reduce more than 50% power compared to IR model
IP dome cameras reduce more than 25% power compared to IR model

Recommended Models



DH-HAC-HDW2249T-A
2MP HDCVI Eyeball Camera



HAC-HFW2249E-A
2MP HDCVI Bullet Camera



IPC-HDBW5442R-ASE-NI
4MP WDR IR Dome AI Network Camera



IPC-HFW5442T-ASE-NI
4MP WDR IR Bullet AI Network Camera



The IoT comes to commercial security

London, UK

The adoption of IoT communication protocols in intruder alarm systems will increase the average number of sensors connected to each system and could promote the wider deployment of wireless sensors in commercial installations. As a result, the volume of shipments of professional security wireless sensors will increase at a compound annual growth rate of 6 percent over the 2018-2023 period, according to a forecast by IHS Markit.

Recently, there have been efforts by the telecommunications industry to develop alternative networks to help resolve issues like signal pollution, insufficient range, power consumption, capacity and the cost of devices that will connect to these networks.

Narrowband accelerates IoT connectivity

To help meet this communications challenge quickly, telecommunications companies have dedicated part of their Global System for Mobile (GSM) communications infrastructure to IoT-suitable technologies called narrowband IoT (NB IoT): CAT-NB and LTE-M. CAT-NB and LTE-M are two protocols suitable for IoT that operate as part of existing mobile networks, allowing service providers to offer immediate IoT connectivity to their customers.

However, the deployment costs of NB IoT are quite high compared to other low-power wide area networks (LPWAN) and therefore may not be the best option for single-building installations. Also, because NB IoT uses existing mobile networks and their frequencies, it still faces the

same challenges of weak signal penetration in thick walled-buildings or underground facilities.

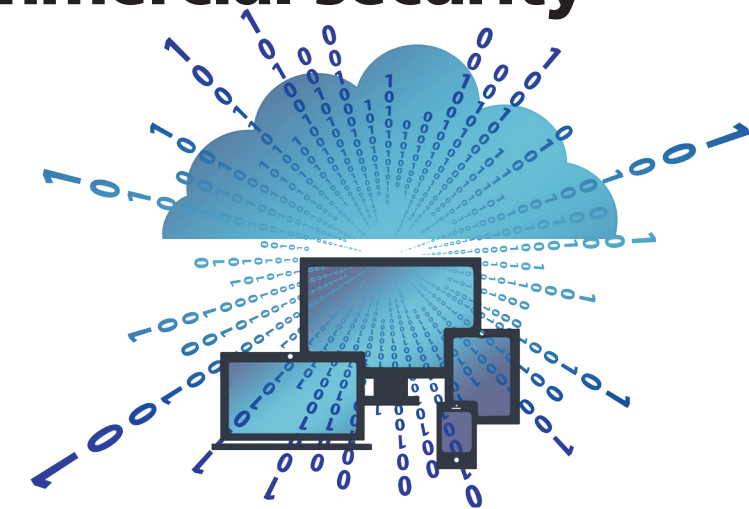
Low-power, wide-area networks join the IoT

LPWANs such as LoRaWAN and Sigfox are the two most popular alternatives that work alongside 3G, 4G and 5G frequencies. Each has specific features that make them suitable for either urban or rural area IoT applications. These

“One of the key barriers that may prevent adoption of pure IoT technologies in intruder-alarm installations is regulation.”

networks allow public and private setups that can be more suitable for specific installations. They also allow network owners to customise communications and security measures in line with their specific requirements. Furthermore, signals sent over such networks potentially can be more resistant to jamming; LoRa for example, sends the signals over a broader frequency spectrum.

The arrival of advanced IoT connectivity in commercial intruder alarm installations will mean that wireless sensors can finally be deployed on a much



The arrival of advanced IoT connectivity in commercial intruder alarm installations will mean that wireless sensors can finally be deployed on a much wider scale.

wider scale. This is because the battery life, range and maintenance of such systems will become much less labour intensive.

Also, the distance from the main control panel can pose a challenge for reliable device com-

The hurdles

One of the key barriers that may prevent adoption of pure IoT technologies in intruder-alarm installations is regulation. While Z-Wave technology received a UL certification in 2017, none of the other IoT-specific technologies have yet.

Cyber security risks will also need to be carefully examined and designed out of the system architecture. In the case of private IoT networks, the responsibility for network continuity, maintenance, repair and security will rest with the network owner. This responsibility will require employing staff members with relevant expertise.

This may be an activity that requires too much effort for building developers, manufacturers or service providers to undertake. Hence, companies wishing to use IoT network services for their connected buildings will need to either use the services of mobile network providers or work with local IoT network developers.

All eyes on the iris recognition market

Northbrook, IL (USA)

The global iris recognition market size is expected to grow from USD 2.3 billion in 2019 to USD 4.3 billion by 2024, at a CAGR of 13.2% from 2019 to 2024. According to the authors of this latest report, MarketsandMarkets, the demand for biometric systems across the world

is on the rise in both the public and private sectors.

One of the primary reasons for this rise in demand is the increasing need for surveillance and security, owing to factors such as the rise in terrorist attacks, crime rate, data breaches, and cyber crimes. As

iris recognition is one of the most preferred biometric technologies, this factor has also led to the rise in the demand for iris recognition systems.

Scanners will lead the iris recognition industry, by product, in terms of size, in 2019. The high

adoption of iris scanners from government, banking & finance, military & defence, and travel & immigration verticals, especially for the identity management and access control application, is the primary reason behind the largest share of this segment in the market.

Impressive growth predicted for professional surveillance market

London, UK

Marking a third year of robust growth, the global professional video surveillance equipment market is set to expand by 9.3 percent in 2019.

Worldwide market revenue will reach \$19.9 billion in 2019, up from \$18.2 billion in 2018, according to the IHS Markit Video Surveillance Intelligence Service. The strong performance this year follows 9.3 percent growth in 2017 and an 8.7 percent expansion in 2018. This three-year growth spurt comes after weaker growth of 3.9 percent in 2016 and 1.9 percent in 2015.

“The professional video surveillance equipment market’s recent growth reflects the continued high spending on security in both the public and private sectors,” said Jon Cropley, senior principal analyst, video surveillance, at IHS Markit. “On the public side, governments are investing in video surveillance

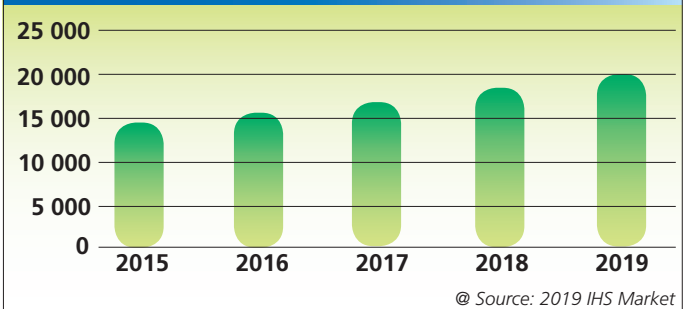
equipment to enhance citizen safety and to equip smart city projects. In the private sector, companies are adding video surveillance gear to combat crime and to gather new types of business intelligence.”

In addition to various types of cameras, the professional video surveillance equipment market includes a range of other products, such as recorders, analytics appliances and video management software.

China accounted for nearly half of the global business, with 45 percent of worldwide revenue. China’s market expanded by an impressive 13.5 percent last year. Excluding China, the global market grew by just 5 percent.

“A major factor propelling

Global revenue forecast for the professional video surveillance equipment market (Revenues \$ millions)



China is driving the expansion of the global professional video surveillance equipment market.

China’s higher growth is the government’s Xue Liang programme, which promotes investment in both city surveillance projects and the extension of city surveillance systems into surrounding rural areas,” Cropley said. “

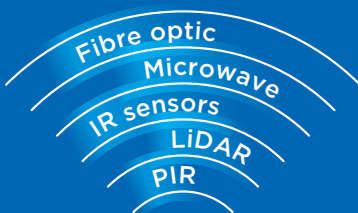
The supply base for professional video surveillance equipment is gradually becoming more

concentrated. The top 15 vendors accounted 65 percent of global revenue in 2018, compared to 52 percent in 2014. A total of 70 percent of all security cameras shipped in 2018 were network cameras. At the same time, global shipments of HD CCTV cameras, also known as analogue HD cameras, fell in 2018.



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Panel of experts:



Thomas Lausten, Mobotix.



Gary Harmer, Hikvision.



Uri Guterman, Hanwha Techwin Europe.



Shengfu, Vivotek.



Steve Sailsbury, Dahua.



HS Lee, Idis.



Rishi Lodhia, Eagle Eye Networks.



Pierre Racz, Genetec.

AI Technology: The Buzz & the Debate

AI continues to be the biggest buzz in the physical security market although industry professionals have somewhat different ideas on how much the technology has actually been developed and what it is able to do. Detektor met up with a wide range of security industry experts to discuss their views on AI.

By Henrik Söderlund

The market for artificial intelligence in security is predicted to grow at a CAGR of 31.38 per cent up to 2025 according to the market research company Marketsandmarkets. By which time, according to their analysts the market will be worth 34.81 billion US dollars. There is little doubt that end customers want more and more intelligence in the cameras. The demand and the notion for this technology has been around for the last couple years and its development continues. To the extent that AI is a key word today for many video surveillance manufacturers when marketing their products and services, and many of them are very positive about AI.

AI at the edge

"It is getting better; the algorithms are constantly being developed. Month by month it seems to improve", says Steve Salisbury, Pre-Sales Manager for Dahua in the UK.

Uri Guterman, Head of Product & Marketing for Hanwha Techwin Europe also says AI and machine learning have been developing quite fast: "If we limit the question to only video surveillance, we see

now more and more AI and deep learning platforms designed for the edge rather than the server. We support that trends with new cameras released this year and in one or two years I think it will be mainstream to have deep learning enabled AI cameras deployed."

Mobotix CEO Thomas Lausten stresses that the development has gained even more momentum recently and that startup companies to mid-size companies have contributed to that. Mobotix initiated a strategic partnership with Realnetworks in 2017 and now Mobotix uses an artificial intelligence-based system for facial and



**AI is artificial intelligence that does not exist.
IA is intelligent automation, that does exist.**

mood recognition optimised for live video, designed by Realnetworks. Vivotek is another company that has recently released products where the marketing is centred around self-developed deep learning-based people detection technology. Shengfu, Director of Marketing and Product planning at Vivotek says: "There is a boom in deep learning and AI technology and we have seen

very good progress, not only for Vivotek but for the whole industry. Video analytics in the camera saves a lot of cost for end users."

Still in its early days

Gary Harmer, Sales Director for Hikvision in the UK, has a more pragmatic view on AI and machine learning. He says: "It is developing as fast as the end users are demanding that we as responsible manufacturers will develop the technology. So, we are about finding out from our current customer base and our end user customers what their operational challenges are within their businesses and then we use our artificial intelligence and deep learning on top of the video solutions to provide them with real world answers."

Some of the industry professionals that Detektor has spoken to are more skeptical about the AI and machine learning hype and claim we are only at the beginning of the

to have the system in place for a long time to really get the machine to understand everything", he says.

Aurélien Boyer, Product Manager for ZeroWire & Security Devices at UTC Fire & Security, stresses AI and machine learning is something UTC considers to be very important. She says: "I believe we are at the early stage of machine learning, but I think the potential is huge."

Racz: "AI does not exist"

Vanderbilt President David Sullivan agrees with Aurélien Boyer. He says: "It is slowly moving in but we do not see it in access control or in our intrusion business yet. Genetec founder and CEO Pierre Racz stresses there has been an interesting increase in functionality with the deep learning technology as we are able to put even more computing power into the hands of people, whose training is not in computers, but in fields such as law enforcement and building management. He says: "But we have to clear up the difference between AI and IA. AI is artificial intelligence that does not exist. IA is intelligent automation, that does exist. And the way intelligent automation works is that the human is in the loop, because the human supplies intuition into the problem that the computer cannot figure out on its own."

He claims that people need to have reasonable expectations and says: "People are really, really good and we think that if a human can do it, a computer can do it, but not yet."

development. One such person is Håkan Johansson, Sales Director for Northern Europe at Axis Communications.

"AI is still in its early days, and I think it is the same thing for machine learning. There is a lot of data that you can capture – but the output of the product, the analytics and the tools will not be better than what you have collected. You need

Video analytics: Finally a staple in surveillance

Finally – after years of broken promises of growth – strengthened by deep learning, the market for video analytics is finally taking off. But what kind of video analytic functions does the market demand?



In addition to perimeter protection, other popular video analytics functions are movement detection, crowd management, business intelligence, face recognition and heat detection.

The global market for video analytics is growing fast. According to an Allied Market Research report, the market was worth 3.1 billion US dollars in 2017 and is expected to be 14.4 billion dollars in 2025 – a CAGR of 21.4 per cent. The market is driven by an increasing demand for IP-based security systems, an increasing volume of unstructured video data and a growing concern over public safety & security according to the report.

Penetrating more segments

Some of the growth factors are the increasing need for edge-based analytics and an increasing demand for business intelligence. Mobotix CEO Thomas Lausten stresses that video analytics is moving from a trend to become real business. He says: “We can see that analytics and deep learning are taking off, not only for large applications and industry projects, but also for smaller applications in the mid-market like retailers and smaller offices. We see analytics and deep learning as an embedded part of the surveillance market from now on.”

With deep learning, accuracy and reliability in object and

behaviour classification increases and false alarm rates fall. HS Lee, Manager of EMEA, Biz Development Team, Idis, believes accuracy is key when it comes to the market demand for video analytics. He says: “Object detection and colour search are two of the most demanded video analytic functions. It has to be done very quick and very accurately.”

Perimeter protection

Steve Salisbury, Pre-Sales Manager for Dahua in the UK, believes perimeter protection to be the most wanted video analytics function. He thinks that the market demands video analytics that can quickly find a starting point of an incident.

Other video analytic functions that are popular are movement detection, crowd management, business intelligence, face recognition and heat detection. Shengfu, Director, Marketing and Product planning, Vivotek, thinks human behaviour like people detection and tracking are the core of the video surveillance business.

Rishi Lodhia, Managing Director of Eagle Eye Networks consider advanced motion detection

and loitering to be popular basic functions. He says: “But we are also seeing a huge uplift in analytics that can make it possible to look at improvement in business operations for retailers. They use our platform not only for video surveillance but for improving business operations.”

Both Aurélie Boyer, Product Manager for ZeroWire & Security Devices at UTC Fire & Security and Gary Harmer, Sales Director for Hikvision in the UK, highlight the retail segment. Gary Harmer says: “In the last year we have seen an increasing demand for retailers in particular and from business in general, looking for management information and business intelligence through the use of video analytics on things such as people counting, queue management, the length of a queue so they can deploy resources, provide a better customer experience to their own clientele.”

Object detection and colour search are two of the most demanded video analytic functions.

He also stresses video analytics for perimeter protection and in thermal cameras, which for example can distinguish between humans and vehicles and ignore foxes.

Health care a new segment

Uri Guterman, Head of Product & Marketing at Hanwha Techwin Europe thinks applying video analytics on thermal cameras is one of the biggest trends in physical security industry today. He says: “I think thermal cameras like never before are starting to be much more accessible and affordable for new segments of the market rather than just defence or border protection. We are starting to see also the mid-range market

demanding thermal cameras and applying video analytics on a thermal image is proven to be very effective.”

Håkan Johansson, Sales Director for Northern Europe at Axis Communications, points out health care as an increasingly interesting segment for video analytics. He says: “We are also looking at elderly care where they want fall detection. This is a new area where we see a lot of development for analytics.”

Genetec founder and CEO Pierre Racz stresses crowd density analysis: searching through databases and being able to find patterns of activities that are unusual, but the function that attracts most interest is facial recognition. He says: “I am not convinced it is a technology that we should deploy just anywhere in a free and democratic society. We have seen some mishaps.”

Stereotypes are reinforced

Many people in the industry are concerned that video analytics can be abused. Gary Harmer from Hikvision stresses it is the owner operator of the CCTV system that is responsible for how the data is collected, managed, used and ultimately deleted. Håkan Johansson from Axis stresses the role of GDPR while Pierre Racz from Genetec says that there are societal stereotypes existing in databases that are not only perpetuated but reinforced: “So we have seen in law enforcement where certain subgroups or less advantaged social economic groups are overly signalled out by these systems because the societal bias is amplified by the analytic system.”



Fujifilm has entered the video surveillance market with the launch of its long-range surveillance camera system Fujinon SX800 with a built-in optical 800 mm lens.

Fujinon SX800: a new integrated long-range surveillance system

Can "see" a person from 2,5 kilometres

Fujifilm has entered the video surveillance market with the launch of its long-range surveillance camera system Fujinon SX800 with a built-in optical 800 mm lens.

"This innovation is the result of years of experience in digital cameras and a dedication to the highest optical quality", says Rob van der Spank, Manager CCTV, Machine Vision & Binoculars at Fujifilm.

With a full HD camera and an optically stabilized, 40x zoom lens from Fujinon, two high-performance components are integrated into one system.

"Thanks to its powerful 1/1.8" image sensor, the long focal length range of 20 mm to 800 mm and state-of-the-art image processing technology, the Fujinon SX800 is ideally suited for aerial surveillance", says Rob van der Spank.

Fully integrated system

In modern society, the security needs of citizens are constantly increasing. Surveillance cameras with long focal lengths are not only used to address sensitive issues such as border security but are increasingly being incorporated into public infrastructure such as airports, seaports and motorways.

Long range surveillance systems must cope with special challenges.

For optics with long focal lengths, the smallest vibrations are sufficient to compromise the image information. Heat haze or fog in the air also impair image quality. And, a focus drive that is too slow leads to safety-relevant information loss.

"However, with the development of the new Fujinon SX800, Fujifilm has found a way to minimize the impact of these challenges. Instead of developing a surveillance camera and a separate matching lens, the concept of a fully integrated system consisting of camera and lens has been realised", says Rob van der Spank.

Image stabilisation

In addition to the high-quality zoom optics, the Fujinon SX800 has a powerful combined optical

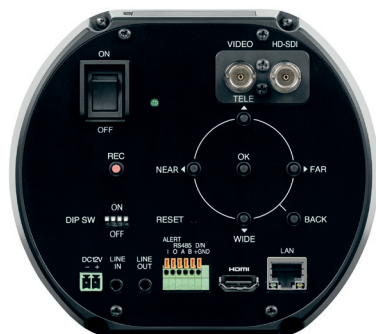
scenario lead to loss of important information. SX800

also has a fog filter and heat haze reduction technology that helps prevent weather interference.

"The system provides consistently sharp images – even of objects several kilometres away. In addition, the integrated design of the new Fujinon SX800 reduces the high adjustment effort normally required for camera installation", says Rob van der Spank.

Various applications

There are many possible applications for Fujinon SX800: for example monitoring large areas and long distances, such as borders, harbours and airports but also applications in the traffic sector and observing crowds of people. It can also be



The SX800 can flexibly be integrated into a PT housing or mounted on a pole or tripod. Its various interfaces and the compact design make it easy to integrate even in existing surveillance systems, according to Fujifilm.

The system provides consistently sharp images – even of objects several kilometres away.

and electronic image stabilisation mechanism that provides angle correction of up to ± 0.22 degrees. According to Fujifilm, the integrated high-speed autofocus provides a sharply focused image in less than a second – a "normal" autofocus can take 6 to 8 seconds to focus the image and may in a worst case

used to monitor forest fire areas as well as dams, industrial plants etc.

The SX800 can flexibly be integrated into a PT housing or mounted on a pole or tripod. Its various interfaces and the compact design make it easy to integrate even in existing surveillance systems, according to Fujifilm.

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**Human & Vehicle Events
that Matter and
Should Receive Attention**



WHAT YOU WON'T SEE

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90%
of the false alarms
that were taken out



Powered by a deep learning algorithm, AcuSense products recognize and respond to human bodies and vehicles in the field of view. This greatly reduces irrelevant alarms that so often get triggered by animals, leaves, or other nuisances. You will also enjoy more efficient video file searching when looking for clips related to specific events with AcuSense's advanced object classification capability.



AcuSense

For more information, please visit our
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* 90% false alarm reduction rate is obtained through laboratory testing.
This percentage may vary under different situations.

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Raytec's Vario IR tracks insect flight patterns

Raytec's IR illuminators have been installed across a number of universities in and around Germany, providing the perfect solution for a research project which monitors the flight patterns of insects, according to David Lambert, Managing Director of Raytec.

Noldus Information Technology develop and deliver innovative solutions for the analysis of animal behaviour. This project in particular involved conducting research into the orientation and the flight patterns of insects.

"As the insects' body and wings reflecting infra-red, a polycarbonate tracking chamber was designed consisting of black infra-red absorbing walls. By combining this with an IR illumination system, it allowed Noldus to easily identify and track the insects as they flew inside the tunnel", says David Lambert.

Adjustable beam patterns

To ensure the project was successful, Noldus was looking for an IR illuminator which could provide high-quality illumination, flexibility and control. First, high-quality illumination: high-quality, IR images were needed to fill the entire tunnel, with an even distribution of light which would match the narrow width and length of the tunnel. Achieving this would allow them to capture precise images so that specific detail around insect movements could be obtained.

Secondly, flexibility: being fitted to a custom-made, portable rack, the illuminators needed a degree of flexibility in how they could be mounted. Adjustable beam patterns were also important in allowing Noldus to trial different combinations and to generate the best images of the insects. And finally control: with a number of different research aims and objectives, being able to control the light to create different conditions and scenarios was important to Noldus. All hardware elements of the installation therefore had to be able to be controlled remotely and

individually to establish the best outcome.

The solution

Six Raytec Vario2-i2-1 units, together with a PSU-VAR-150W-3 supply unit, were mounted onto a custom-made, portable structure which was used to illuminate the tunnel. This structure would appear at the entrance to the tunnel, illuminating it whilst the two CCD (charge-coupled device) cameras took synchronised video images, and integrated with Ethovision XT 3D tracking software.

David Lambert stresses Noldus had successfully used Raymax 25 and Raymax 50 for previous research projects, and this on-going relationship was important in their decision to upgrade to Raytec's Vario2 IR illuminators.

Upgrading to Vario2 allowed Noldus to control the illuminators individually. David Lambert says: "By using the Vario remote control, they could adjust several advanced features, such as the power, remote switching, timer function, remote dimming and more. This also allowed a quicker set-up, saving cost and time during installation and ongoing adjustment."

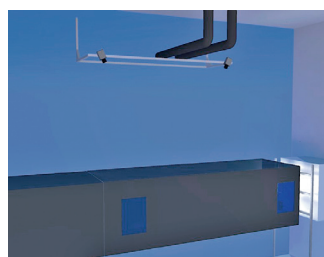
David Lambert also stresses that featuring interchangeable lenses, Vario2 allowed Noldus to easily modify the beam angle of each illuminator in order to achieve the best results, providing good quality, even illumination of the entire tunnel. This meant the tracking software being used could easily identify the insects, no matter where they were in the tunnel, and allowed the entire system to operate at optimum performance.

Enhanced images

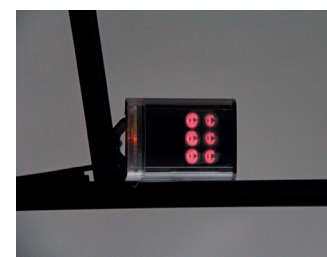
David Lambert emphasises



Noldus Information Technology develop and deliver innovative solutions for the analysis of animal behaviour.



Vario2's hot-spot reduction technology (HRT) also enhanced the images by delivering a highly diffused, elliptical beam shape to deliver more light where it was needed, while preventing overexposure of foreground objects so every insect could be monitored without disturbance to the image. He says: "The rack was located at the entrance to the tunnel which was a restricted space. As a result, the compact size of the Vario2-i2-1 units were ideal, while still being able to provide the power required



despite being the smallest sized illuminator in the Raytec range."

According to Raytec, Vario2's standard U bracket provided Noldus with the flexibility they required in terms of mounting. Willem Van der Veer, Senior Electronic Engineer at Noldus says: "The flexible mounting and positioning possibilities of the Vario2 on the rack enable very good and evenly distributed light. This makes the insects visible for our cameras wherever they are within the tunnel."

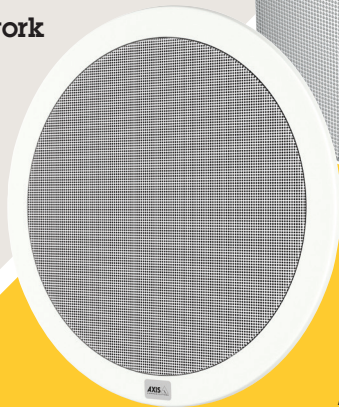
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Axis Live Privacy Shield compares a live camera view to a set background scene and applies a detailed and dynamic transparent mask to areas of change.

Dynamic masking protects privacy in video surveillance

Axis Communications has launched Axis Live Privacy Shield, the market's only edge analytics software for cameras that masks people in real time in video streams at up to full frame rate.

"It addresses privacy rules and regulations, and at the same time, lets users see movement and activity on their premises", says Carl Staël von Holstein, Business Development Manager, Retail at Axis Communications.

The introduction of GDPR in May 2018 has increased both the physical security industry's and the public awareness of data privacy rights. There are several tools and technologies to protect people's privacy during the process of viewing, recording and exporting video. Video masking is an effective method of redacting faces from video in order to comply with GDPR and safeguard privacy.

Masking in real-time

Axis Live Privacy Shield compares a live camera view to a set background scene and applies a detailed and dynamic transparent mask to areas of change. In other words, moving people and objects appear as transparencies over a background. According to Axis, the entire process happens faster than the blink of an eye and effectively eliminates the collection of personal data. Carl Staël von

Holstein says: "Because it runs directly on selected Axis cameras, no expensive servers are required, and it is easy to scale. The solution is reliable and cost-effective".

It addresses privacy rules and regulations, and at the same time, lets users see movement and activity on their premises.

Except for being cost effective, Carl Staël von Holstein thinks that its key benefits are that it safeguards privacy, offers reliable, real-time dynamic masking at high frame rates and it is easy to install, configure and manage.

Users can choose areas

In areas where masking is permanently required, one can use the camera's static privacy masking feature in combination with Axis

Live Privacy Shield. For example, static privacy masking can be applied over the credit card terminal in retail.

By default, dynamic masking is applied to the camera's entire field of view, but users can choose to define areas where masking is not applied – for example, if there is a conveyor belt with moving objects that they want to be able to see. Users can also configure the system to deliver a separate video stream without dynamic masking, so authorised viewers can access details in case of an incident and decide how



Carl Staël von Holstein, Business Development Manager, Retail at Axis Communications.

vides an affordably priced solution to an issue that could potentially be very costly if it is not addressed properly."

Axis Live Privacy Shield is designed for use in indoor areas with good, stable lighting.

Carl Staël von Holstein stresses Axis Live Privacy Shield is suitable for remote video monitoring or recording in areas where surveillance is otherwise problematic due to privacy rules and regulations. "It is ideal for processing, manufacturing and logistics applications when video surveillance is primarily used to monitor processes. Other potential applications are in retail, healthcare, education and at government facilities", he says.

often the background should automatically update, the level of detail for the contours of the transparent masks and the frame rate.

Many applications

Axis Live Privacy Shield runs directly on nine of Axis' fixed cameras and ten fixed dome cameras, there is no need for central-based servers. Carl Staël von Holstein says: "Axis Live Privacy Shield pro-

Sensing analytics solves complex detection inside tunnels

Accurately detecting a person entering a tunnel – even when trains are simultaneously coming in and out of the tunnel – is a very complex task. However, it could be achieved by using Optex Lidar technology and its embedded sensing analytics alongside a bespoke detection algorithm, according to Optex.

For railway operators it is critical to detect anyone entering a tunnel for obvious security and safety reasons. Railway or subway tunnels are enclosed, echoey, dark and often humid areas. Laser sensors are not affected by lighting conditions which makes them suitable for these types of applications.

Size and distance analytics

Optex Lidars analyse the speed, size and distance of the objects detected, meaning they track the objects within the detection area and understand the ratio size/distance of the object. This provides the ability to accurately detect a

specific size of objects at distance and close up – in this application it can distinguish between humans and trains. For a successful ‘tunnel intrusion detection’, the solution is required to ignore the trains but detect people, and according to Optex, this was achieved by developing a bespoke detection algorithm.

“If a moving object the size of a train enters the tunnel no alarm is generated, but if an object the size of a human enters the tunnel, even if a train was entering at the same time, then an alarm is generated”, says Masaya Kida, Managing Director of Optex EMEA.



For railway operators it is critical to detect anyone entering a tunnel for obvious security and safety reasons.

He also stresses that Optex lasers feature environmental analytics enabling the area of detection to be adjusted, to auto-learn changes to the environment, and to indicate to the security control system if its ability to detect is affected by, for instance, a soiled lens.

Detection speed

The speed of detection is another important factor for the application to be successful, as it is difficult for any system to detect fast moving

objects. Part of the requirement was to test if the Lidar could detect a person running inside the tunnel when a train was entering the tunnel at the same time. And thanks to the scanning speed of the sensor, this criterion was also achieved.

“Detecting people entering tunnels is a priority for many railway operators in Europe and in the last five years we have worked on a number of projects, constantly improving our Lidar technology,” says Masaya Kida.



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Improved alarm accuracy for the SME and residential markets

Thanks to deep learning, security solutions have been enabled with sophisticated intelligence and efficiency at a whole new level according to Hikvision.

“Hikvision Acusense is newly born out of this, which makes advanced VCA and deep learning capabilities available to small and medium businesses, and residential customers for the first time”, says Frank Zhang, President of the International Product and Solution Center at Hikvision.

Small and medium businesses often have similar surveillance and security requirements as larger organisations. They need to identify and react to perimeter breaches in real time, and they need to automate footage search to be able to locate true events fast. Another example could be the security and protection of residential areas according to Frank Zhang.

The need for accurate alarms

“Imagine, when you need to look into the security of your house, the first line you probably would consider is its perimeter. The idea is to prevent intruders from breaking in. However, a conventional surveillance system may not do the job well enough”, Frank Zhang says.

He claims that conventional surveillance systems provide cer-

tain detection features enabled by video content analysis (VCA), such as motion detection, line-crossing detection and intrusion detection, but, would simply compound all event detections, triggering frequent alarms when an object is detected.

“This could be an animal, a shadow, or other natural movements – we call them false alarms. As a result, you need to spend time to investigate each one, potentially delaying any necessary response and generally affecting efficiency”, Frank Zhang says.

Being able to identify the real threats – the presence of a human or a vehicle – would greatly improve the accuracy of perimeter VCA functions and Hikvision’s Acusense technology can help achieve this goal, and gives a cost-effective way to protect your

locations and assets according to Frank Zhang.

Enhanced alarm accuracy saves time

Employed with advanced VCA and deep learning algorithms, Hikvision stresses that Acusense helps you to maximise security with efficient human and vehicle detection by categorising alarm information into human, vehicle, and other objects. Frank Zhang says: “With high accuracy, the system disregards alarms triggered by other objects such as rain or leaves, and delivers alarms that are associated with human or vehicle detection”.

Hikvision Acusense also offers a “quick target search” feature that allows security personnel or local police to find footage quickly in the event of a security incident. This saves many hours rather than searching for footage manually according to Frank Zhang.

Efficient alerts and video clips

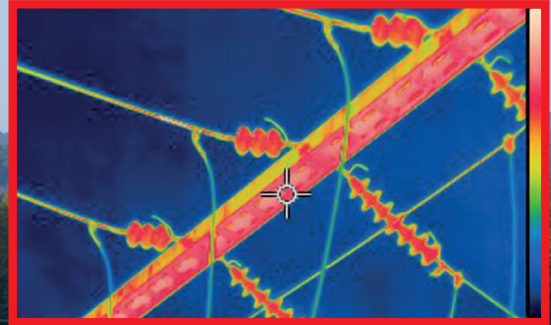
Frank Zhang stresses that with a perimeter security system armed with Hikvision Acusense technology, a security camera will capture an intruder entering your front yard and at the same time, you

receive a message on your smartphone and can view the video feeds. He says: “With this verified alarm, action can be taken straight away. Hikvision Acusense prevents problems before they escalate into would-be emergencies. Our fully-integrated video surveillance makes it easy for you to see and capture important activity with video alerts, live feeds and 24/7 digital video recording – all easily viewed from your Hik-Connect app”.

Frank Zhang thinks that Acusense’s key features are false alarm reduction, quick target search and strobe light and audio alarm and says: “It reduces false alarms triggered by inanimate objects to a minimum, vastly improves alarm efficiency and saves costs. Quick target search is a more efficient and effective file search based on human and vehicle classification, preventing security personnel from having to search through footage manually; a strobe light and audio alarm wards off potential intruders with the combination of a siren and a flashing light.”

Hikvision’s Acusense technology can be found in the EasyIP and Turbo HD product ranges, suitable for small factories, residential estates and villas, small hotels, gas stations and more.

VIDEOTEC



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Chinese AI unicorns target smart cities and public security

Stockholm, Sweden

According to research company, Memoori, in a bid to be at the forefront of the technology, China is pouring billions of dollars into companies that are researching AI technology, with video analytics and IoT platforms for smart cities being two of the prime applications.

Memoori estimates that China accounts for approx. 31% of global physical security revenues and says that it is now the biggest single country market for physical security products having increased its share by almost 50% in the last 7 years.

Video surveillance equipment has been the major contributor here, with the market growing rapidly through a boom in new construction and safe city projects in the public sector. Hundreds of cities in China, large and small, have jumped on the smart cities bandwagon, as advocated by Beijing, and have established budgets to support such initiatives.

Chinese AI startups worth over \$1 billion

Several Chinese AI startups addressing the smart city vertical, are valued at more than \$1 billion, qualifying them as unicorns. Four companies, Megvii, Sensetime, Cloudwalk and Yitu, offer face recognition software for public surveillance while Terminus Technologies offers a range of smart building technologies, leveraging AI and IoT.

Facial recognition companies

According to its recently filed Hong Kong Stock Exchange IPO document, **Megvii**, the developer of Face++ face recognition software, is the largest AI-focused solution provider in China's smart city and community management vertical in terms of revenue. Megvii reported revenue of around \$200 million and posted losses of \$469 million in 2018. The City IoT segment of its business that provides surveillance and security systems, accounts for nearly 75% of its revenues and has customers in more than 15

countries and territories outside China. The company was valued at \$2 billion in 2018 and has raised over \$1.4 billion in funding.

\$5.9 billion valued AI player

Hong Kong-based **Sensetime**, the highest valued of these four companies, specialises in systems that analyse faces and images on an enormous scale, with applications in the retail, telecommunications and healthcare sectors, as well as physical security. Sensetime has been profitable for two years and has grown to around 3,000 people, of which a third work in research. In September 2019, the company secured a \$1 billion investment from Japanese Softbank's Shanghai affiliate Softbank China Venture Capital, raising its total fundraising to \$2.6 billion and lifting its valuation to around \$5.9 billion.

Face recognition player

Cloudwalk Technology, a Guangzhou-based developer of AI-focused facial recognition software, was an AI startup incubated in the Chinese Academy of Sciences (CAS) system. As of March 2018, a total of 24 provinces in China utilise public security solutions powered by Cloudwalk. The company also provides facial recognition solutions at airports. Total funding amounts to over \$509 million and the company is valued at approximately \$2 billion

Won facial recognition tests

Yitu Technology, founded in



Several Chinese AI startups addressing the smart city vertical, are valued at more than \$1 billion, qualifying them as unicorns.

2012, is a leading Chinese AI company and one of the earliest computer vision companies in public security surveillance. Yitu is the only company to have won both facial recognition tests organised by the National Institute of Standards and Technology (NIST) and the Intelligence Advanced Research Projects Activity (IARPA). In January 2018, Yitu's systems were deployed in over 20 provincial public security bureaus and over 300 cities. Total funding amounts to over \$416 million and the company is valued at approximately \$2 billion.

City-level IoT operator

According to its web site, **Terminus Technologies** has grown itself into a unicorn, with a valuation of over \$1 billion. The company aspires to become the largest city-level IoT platform operator in China, committed to providing governments and enterprises with solutions for urban management, building energy management, fire protection systems and public security.

IoT product supplier

Terminus offers a broad set of smart products such as face-

scanning locks, access control, automated fire control systems and energy management technologies using IoT to help upgrade multiple facilities and infrastructure in communities, office buildings, shopping malls, schools, hospitals, water services and parks. The company has expanded its business to 84 cities, covering 30 provinces across China and implemented over 8,400 projects nationwide. It is majority owned by its main backer, China Everbright Group, the Chinese state-owned conglomerate, with Ai Yu, the Group's Managing Director also serving as Terminus' CEO. In August 2019, the company closed a Series C round of \$283 million, bringing total funding to over \$528 million.

What about privacy concerns?

It is clear that these Chinese startups have benefited from huge capital injections. What remains to be seen, says Memoori, is whether they can sustain their technological advantage, growth and profitability while at the same time addressing global privacy concerns related to largely unregulated public surveillance in smart cities.

Genetec establishes UK headquarters

London, UK and Montreal, Canada

Genetec has opened its new headquarters in the City of London following a period of accelerated growth for Genetec in the United Kingdom. The company has enjoyed a significant and sustained increase in EMEA revenues over the last five years, with flagship customers including, the Royal Borough of Windsor and Maidenhead, Twickenham Stadium and the University of Hull.

Paul Dodds, Country Manager, UK & Ireland, commented: "At a time when Brexit has seen many organisations reconsider their presence, Genetec is unequivocal about the role of the United Kingdom as a critically important

part of the global economy. As such, we're delighted to be opening a central London headquarters to better meet the needs of our channel partners, end users, and prospects."

The new headquarters will incorporate an expanded state-of-the-art training facility, and a new 'Genetec Experience Center' housing innovative solutions from Genetec and its large ecosystem of technology partners. Furthermore, the office will house a dedicated research and development team focused on justice and public safety applications for law enforcement, emergency responders and local government.

Michel Chalouhi, VP of Global Sales, added: "The new London headquarters will give us the perfect platform to continue to execute our UK strategy and sustain the excellent year-on-year growth that we've achieved globally over the past years. The security market is growing and changing rapidly. We are constantly facing new challenges, so we need to ensure we work with our local partners to provide up-to-date training, compelling educational experiences, and state-of-the-art support. Our base in London will help us do that, thanks to its fantastic location, facilities, and links."

Assa Abloy acquires Czech RFID company

Stockholm, Sweden

Assa Abloy has signed an agreement to acquire **Lux-Ident**, a leading provider of radio frequency identification (RFID) components based in the Czech Republic.

"Lux-Ident is a strategic technological addition to the Assa Abloy Group. The company reinforces our current offering within RFID components. The acquisition of Lux-Ident considerably enhances the Group's position within smart components and will provide complementary growth opportunities," says *Nico Delvaux*, President and CEO of Assa Abloy.

"Our proven leadership in RFID technology positions HID as a premier source of components

for a wide variety of RFID use cases and IoT applications. The acquisition of Lux-Ident further optimises our portfolio with more ways to offer customisation in both large and small volume projects," says *Stefan Widing*, Executive Vice President and Head of HID Global. "Expanding our presence in Central and Eastern Europe with Lux-Ident will further enhance HID's ability to serve customers locally while extending our RFID technology into emerging markets."

Lux-Ident was founded in 2002 and has some 145 employees. The main office is located in Lanškroun, Czech Republic. Sales for 2019 are



Nico Delvaux, President and CEO of Assa Abloy.

expected to reach about CZK 440 million (approx. SEK 180 million) and the acquisition will be neutral to EPS from start.

The acquisition is subject to regulatory approval and customary closing conditions and is expected to close during the fourth quarter of 2019.

Anixter to be acquired by CD&R

Glenview, IL (USA)

Anixter International Inc., a leading global distributor of Network & Security Solutions, Electrical & Electronic Solutions and Utility Power Solutions, has entered into a definitive agreement with an affiliate of Clayton, Dubilier & Rice (CD&R) to be acquired in an all cash transaction valued at approximately \$3.8 billion. The transaction will result in Anixter becoming a private company

and is expected to close by the end of the first quarter of 2020.

Under the terms of the merger agreement, CD&R-managed funds will acquire all of the outstanding shares of Anixter common stock for \$81.00 per share in cash. This represents a premium of approximately 13% over Anixter's closing price on October 29, 2019, and a premium of approximately 27% over the 90-

day volume-weighted average price of Anixter's common stock for the period ended October 29, 2019.

"It's a great outcome for Anixter's employees, customers and partners. As a private company, we believe Anixter will have greater flexibility to focus on and accelerate our long-term strategic priorities," comments *Bill Galvin*, Anixter's President and Chief Executive Officer.

BUSINESS PEOPLE



Kurt Takahashi begins his new role at Pelco 1 November, 2019.

Pelco's new CEO

Fresno, Ca (USA)

Pelco has appointed Kurt Takahashi as Chief Executive Officer, effective November 1, 2019. Previously, Takahashi held the position of President of AMAG Technology, a global end-to-end security management platform

At AMAG, his innovative leadership transformed the company from being an access control focused business into an open, innovative security management solution specialising in access control, video surveillance, visitor management, identity management, incident and case management, and a fully integrated command and control software suite.

Prior to AMAG, Takahashi was the Vice President of Global Sales and Marketing at Quantum Secure where he led sales, business development, and marketing to drive global pipeline and top-line revenue growth.

"Mr. Takahashi is a proven leader with deep connections to Pelco and the industry. With over 20 years in the physical security sector, his reputation with customers, dealers, consultants, and technology partners is invaluable, states Russ Roenick, Pelco's Chairman of the Board and Managing Partner of Transom Capital.

STid: the success of instinctive identification!

STid has been leading the field in the design of contactless instinctive identification solutions for more than 20 years. With revenues of 13 million in 2019, the Group's strong growth is fuelled by supplying solutions to protect people, data and property for enterprises, governments and the most demanding industries. We take a closer look at the latest news from the Group and the major trends in security with STid's CEO, Vincent Dupart.

Tell us about the skills behind STid's success.

Vincent Dupart: STid is a pioneer in the command of contactless identification technologies and the IoT. The Group deploys this know-how in two strategically important fields of activity: security, with access control for people and vehicles, and traceability in industries like aerospace, energy or defence. Our strength lies in our capacity to merge enterprise security policies with ease of use. These conflicting expectations can both be met thanks to two key factors: innovation for greater ease of use and uncompromising levels of security.

What are the major trends for STid in 2019-2020?

V.D.: 2019 is the first year of our five-year growth plan. STid now posts revenues of €12 million, employs 70 people and operates on an international (or Global?) scale. We are progressing well, with a growth rate of 39%. This has been achieved thanks to our development in the United Kingdom, the United States and the Middle East, and to our investments in industrial traceability. A dynamic that is reflected by recent events in the Group. The Strategic Committee (CSF) for Security Industries also recently awarded us its

"Major Events" label, in readiness for the preparations of the 2024 Olympic and Paralympic games in France. We recently won the 2019 Golden Trophy at the APS exhibition in France, and we have also been nominated for the 2019 Detektor International Award for SPECTRE, our simultaneous and automatic vehicle and/or driver identification solution. A great reward for our team mate!

How is SPECTRE an innovative solution?

The new SPECTRE range of readers combines passive UHF technologies and Bluetooth®. What are its main benefits? The automatic and remote identification of vehicles, with simultaneous access control of up to four lanes. SPECTRE can also withstand impacts and acts of vandalism (IK10 certification). This new range is designed to optimize access to parking lots and the management of vehicle fleets for businesses, industry and State organizations. The SPECTRE reader has revolutionized the codes of vehicle access control.

What are the next steps?

V.D.: We are continuing to invest in the technologies of the future, still on the basis of open and interoperable solutions. This is a bold stance. By working with open



STid's CEO, Vincent Dupart.

technologies, we run the risk of witnessing our customers turn to other solutions however our annual growth demonstrates that we have adopted the correct position. Today, a reader that is scalable over time, working on open technologies or offering resin-free solutions, all make STid a unique player on the contactless identification market. Also, we plan to reinforce our teams. In 2019, we have made 25 new hires in order to offer the proxim-

ity and the presence that our customers' needs demand. Growing is our priority but not at any cost. We will maintain the same level and quality of service on which STid's reputation is built!

<https://stid-security.com/fr/>





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www.stid-security.com

BUSINESS PEOPLE



Ditte Høyrup-Myhre.

VP for people and transformation

Copenhagen, Denmark

Milestone Systems has appointed Ditte Høyrup-Myhre to the position of Vice President, People, Organization & Site Operations.

The People, Organization & Site Operations team is responsible for organisational development, talent management, performance management, employer branding & recruitment, HR administration and onboarding & offboarding, among others.

As the new Vice President, Ditte Høyrup-Myhre will oversee several critical People & Organization initiatives within Milestone Systems' People First objective, increasing the innovation capacity and capability as well as managing the Culture Shaping programme, Employee Experience and agile ways of working. All initiatives spring from Milestone Systems' overall business growth strategy with the goal to increase the company's innovation capacity by 45 percent.

Another important initiative which Ditte Høyrup-Myhre will be driving is the further development and anchoring of Milestone Systems' performance management into a more agile set-up. All initiatives will enable the organisation to scale better, innovate faster and attract more talent.

Sri Lanka airport deploys smart solutions to protect flight zones

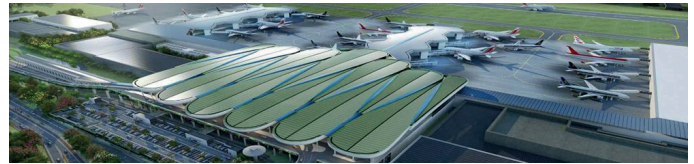
Hangzhou, China

In 2018, one of the largest airports in Sri Lanka adopted the **Dahua** Thermal Imaging Perimeter Monitoring System to protect the safety of its flight zones. The system has guaranteed the takeoff and landing of more than 60,000 aircraft, guarding the safety of 10 million passengers throughout the year.

In addition to basic video surveillance, access control, and alarm, Dahua's Airport Solution also integrates cloud computing, AI, big data and other up-to-date technologies to deliver an upgraded airport security system to its customers.

The system features functions such as, Intelligent Detection in Terminal, where artificial intelligence technology is applied in terminal building areas to fulfill passenger behaviour analysis, personnel loitering detection, unattended baggage detection, population density analysis, traffic statistics and other functions that can aid intelligent early warnings, thus creating more customer value.

The Perimeter protection moni-



So far, the system has guaranteed the takeoff and landing of more than 60,000 aircraft, guarding the safety of 10 million passengers throughout the year.

tors the airport with thermal imaging technology, which is suitable for various weather conditions and provides users with high-precision intrusion detection warning. Combined with a visible light camera, users can capture a clear picture of an incident.

Face recognition technology has also been widely used in the airport vicinity. It is deployed at key entrance and exit areas to identify people entering the airport and to provide users with timely warning when a high-risk individual has been detected.

The take-off and landing tracking feature monitors the process that is probably considered the most dangerous and complex stage during the entire flight. The Dahua

Visual Aircraft Landing and Tracking System can completely track and monitor the status of aircraft take-off and landing. The system can detect abnormal conditions on time - such as when the landing gear are not lowered normally - which ensures the safety of the aircraft during takeoff and landing.

The system can effectively collect images around the clock and allows automatic monitoring of intrusion events under special weather conditions such as total darkness, glare, backlight, fog, smog, etc., which assures accurate detection with reduced false alarms. Indeed, the security level of the airport has been further improved and the efficiency of the security has been optimised.

Hanwha Techwin appoints new president

Camberley, Surrey (UK)

Previously Head of Sales & Marketing and former President of **Hanwha Techwin** America, *Mr Soon-hong Ahn* has been appointed President of Hanwha Techwin.

Commenting on his appointment, Mr Ahn said: "2020 marks the beginning of a new decade during which we will be devoted to becoming a 'Global Top Security Solution Provider', by presenting new benefits to our customers through a variety of products and

services based on leading-edge technology in video and intelligent security."

"Our plan for the immediate future is to maintain stable growth hinged on qualitative growth strategies, while incorporating core technologies based on mega trends, such as IoT, AI and 5G into our video surveillance solutions and create new business opportunities for system integrators and business partners."



Mr Soon-hong Ahn is the new president of Hanwha Techwin.

Mr Yeon Chul Kim, Hanwha Techwin's previous President has been appointed President of Hanwha Systems.

Alarm.com acquires Openeye & extends VSaaS offering

Tyson, Va (USA)

Alarm.com has made a majority-stake acquisition of Openeye, a provider of cloud-managed video surveillance solutions for the commercial market.

Openeye's intelligent cloud

architecture efficiently distributes video and event data to maximize control for both onsite command centre operators and remote administrators. The unique hybrid solution delivers the high-resolution

long-term storage, low bandwidth consumption, and centralised cloud management that enterprise users demand. Openeye is currently utilised at over 14,000 business locations in the U.S. and Canada.

ADT sells Canadian business

Boca Raton, Ca (USA)

ADT Inc. has entered into a definitive agreement to sell ADT Security Services Canada, Inc., to Telus Corporation ("TELUS") for approximately CAD \$700 million in cash, subject to certain adjustments. The transaction comprises

all of ADT Canada's operations and assets.

"Opportunities continue to develop for ADT in the areas of smart home integration, the expansion of the home security business into new demographics and ADT's growth

in commercial security," says *Jim DeVries*, President and CEO, ADT.

"The sale of our more capital intensive Canadian operations enables us to sharpen our focus on the exciting growth and higher margin opportunities in the U.S., where we

can more efficiently invest our time and resources. Importantly, these emerging opportunities are ideal for leveraging the trusted ADT brand as we continue generating strong free cash flow to drive shareholder value over the long term."

Castik Capital acquires Addsecure

Boca Raton, Ca (USA)

Castik Capital, a European private equity firm has acquired **Addsecure** from **Abry Partners**. Castik becomes the new majority shareholder of Addsecure while Abry Partners will maintain a minority ownership position with Addsecure management also investing into the company.

The acquisition of Addsecure by Castik is a strong validation of Addsecure's clear vision, expansive growth strategy, and the company's development. Over the past three years, the company has tripled in size and is now present in 12 countries.

Castik Capital recognises the

distinct opportunity Addsecure has to establish the company as the leading provider of secure data and communications in Europe and will strongly support the company's organic and acquisitive growth going forward.

"We are impressed by their journey and look forward to accelerating and promoting Addsecure's on-going success", says *Michael Phillips*, Partner at Castik Capital.

"This is an affirmation of strength for all of us who work at Addsecure. It feels very gratifying that Funds advised by Castik are making a significant investment

in us, and in the strategy that we have put into place for 2025. Castik is a perfect fit as new owners, providing a stable, long-term foundation to enable us to further accelerate our efforts in innovation, growth and profitability", states *Stefan Albertsson*, CEO of Addsecure.

Addsecure has built a comprehensive portfolio of secure solutions to serve organisations and teams within Smart Alarms, Smart Transport, Smart Rescue and Smart Grids.

Stefan Albertsson will remain the CEO of Addsecure.



Stefan Albertsson, CEO of Addsecure.



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Flir acquires tethered drone technology

Arlington, Va (USA)

Flir Systems has acquired the intellectual property (IP) and certain operating assets of **Aria Insights, Inc.** Terms of the deal are not being disclosed.

Previously known as Cyphy Works, Inc., Aria pioneered the development of tethered small unmanned aerial systems (sUAS). Founded in 2008 by I-Robot co-founder Helen Greiner and backed by several top technology investors, Aria notably developed the Persistent Aerial Reconnaissance and Communications (PARC) tethered drone. The company ceased operations in March 2019.

Tethered drones connect to

a base station or vehicle by microfilament wire, which provides both continuous power and secure communications. For certain applications, a tethered drone offers advantages over a free-flying UAS, enabling sustained operations on longer missions and persistent situational awareness so users can perform intelligence, surveillance, and reconnaissance (ISR) functions.

The Aria assets will be integrated into Flir's Unmanned Systems and Integrated Solutions Division, augmenting the company's industry-leading technology portfolio built from its acquisitions

of Prox Dynamics in 2016 and Aeryon Labs and Endeavor Robotics earlier this year.

"Tethered UAS systems are becoming an increasingly valuable tool for force protection, border security, and critical infrastructure protection," said **David Ray**, president of Flir's Government and Defense business. "Aria's innovative technology and IP assets will enable us to enhance current capabilities and advance the range of solutions we can deliver to customers in this growing market segment."

"We're pleased to complete the sale of our assets to Flir Systems,"



Tethered drones connect to a base station or vehicle by microfilament wire.

said **Lance Vandenbrook**, former CEO of Aria Insights. "We are proud of the technology our team developed through the operations of Cyphy Works and Aria, and we believe Flir offers the best opportunity to see it make a difference and support critical missions in the years ahead."

Latest Hikvision financials demonstrate robust growth

Hangzhou, China

The latest published **Hikvision** financial results for the third quarter of 2019, show that the company generated a revenue of RMB 15.92 billion, having achieved a year-over-year (YoY) growth of 23.12%, and net profits

attributable to shareholders of the Company was RMB 3.81 billion, representing a year-over-year growth of 17.31%.

During the period of Q1-Q3, Hikvision accumulated a total operating income of RMB 39.84

billion, representing a YoY growth of 17.86% (shown as table above).

The growth of revenue was stable and robust during the first three quarters of 2019, with a consecutive increase every quarter.

Hikvision believes there are

increasing security demands and growth opportunities in both the Chinese and overseas markets, and maintains that it will continuously strive to provide superior products and services for all customers and partners globally.

Spain's busiest airports upgrade security screening

Zug, Switzerland and Madrid, Spain

Siemens has won a contract to modernise the existing security systems for luggage control at Spain's five busiest airports. The contract for the luggage inspection systems at the airports of Madrid, Barcelona, Malaga, Palma de Mallorca and Gran Canaria has a volume of around 164 million euros.

The customer is AENA (Aeropuertos Españoles y Navegación Aérea), the Spanish semi-governmental airport operator. With 264 million passengers and more than one million tons of freight in 2018, AENA is one of the world's largest airport operators. The new luggage inspection systems from Siemens will help to significantly increase traveller safety. At the same time, passengers can be handled more

quickly and travel more comfortably.

The Siemens solution can analyse up to 1800 pieces of luggage per hour automatically. Thanks to the modern scanner solutions for luggage screening with the Hi-Scan 10080 XCT equipment, AENA will be able to comply with the recently tightened security regulations of the European Civil Aviation Conference (ECAC).

Their new "Security Standard 3" requires, among other things, that computer tomography technology and video analysis software be used to automatically identify explosives when scanning luggage. Depending on requirements, the Hi-Scan 10080 XBT CT scanner delivers two- or three-dimensional

images in medical image quality. Suspicious bag content is specially marked on the screen, which facilitates the work of the surveillance personnel.

AENA's contract with Siemens will run for four years. In addition to the actual safety equipment, it also includes systems and software for operational management and remote monitoring. The Siemens company Tecosa, which specialises in security, will implement the project, which was awarded in a public tender, together with the device manufacturer Smiths Detection. Once the systems are up and running, Siemens will maintain them for at least three years.

"The security challenges for airports are constantly growing. They



The contract is worth 164 M Euros and is for the luggage inspection systems at the airports of Madrid, Barcelona, Malaga, Palma de Mallorca and Gran Canaria.

have to handle more and more people and their luggage safely, day after day. We are very pleased with the order from our long-standing customer AENA, who entrusts us with the modernisation of their luggage control systems," says **Pedro Sanz**, General Director at Siemens Tecosa.

eCLIQ: The key to electronic locking

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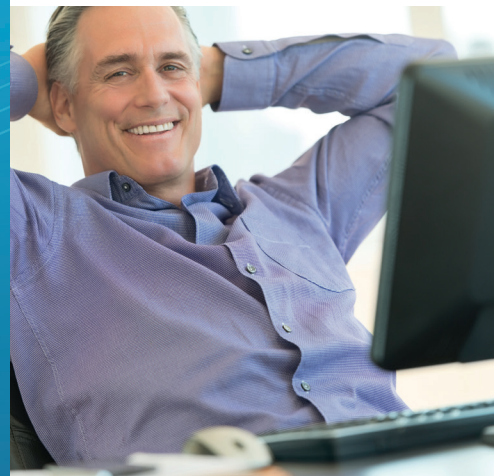
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Genetec Clear ID self-service ID & access system

Montreal, Canada

The new Genetec Clear ID system, is a self-service physical identity and access management (PIAM) system that standardises and enforces security policies to help make organisations more efficient, compliant and secure. The system will be available globally in early 2020.

From corporate offices and university campuses to highly regulated multinationals in the oil, gas, mining, and petrochemical industries, *Clear ID* removes the day-to-day complexities of managing individual cardholders, and access rights. Guided by an organisation's existing policies, *Clear ID* automates workflows and self-service capabilities to enable a more fluid, efficient working environment for everyone – without compromising security.

Automated workflows

By automating access rights management, *Clear ID* reduces bottlenecks related to managing employee and visitor access requests. Cumbersome and time-

consuming paperwork related to granting people access to facilities or specific work areas can be streamlined with automated workflows allowing employees to make on-demand requests in the online portal. This means that managing day-to-day access needs, meeting compliance conditions, and ensuring policy updates become a more automated process.

"As a cloud-based service that's built to work natively with Genetec Synergis access control security software, *Clear ID* can be deployed faster and more easily than an on-premises solution that typically requires complicated integrations and customisations," says *Jonathan Doyon*, Genetec Product Group Director for *Clear ID*.

"With less infrastructure, customers save both money and time by not having to maintain additional physical systems."

Increased efficiency

A self-service physical identity and access management system, *Clear ID* enables employees to login to an online portal and make access requests directly to the area owner or supervisor. Employees control their own access requests which *Clear ID* automatically approves, denies, or routes on to an operator to review, based on corporate policies and automated workflows.

"The seamless movement of people throughout an organisation is integral to its efficiency and operations", continued Mr. Doyon. "Genetec *Clear ID* is a smarter way to manage employee, visitor and contractor access rights – greatly enhancing the user experience, eliminating unnecessary overhead from administrators and helping standardise and codify security policies to make organisa-



Genetec is set to launch Clear ID at GSX, Chicago.

tions more efficient, compliant, and secure."

Improved experience

The initial release of *Clear ID* will help improve visitors' experiences by providing a smoother, automated process that begins as soon as a meeting is arranged. Using a web portal, the employee (host) creates a profile for the visitor including the meeting details. The visitor in turn receives a confirmation email with a QR code that can be used to sign in once on site, print a badge and automatically advise the host of their arrival.

New Axis 4K resolution camera with ultra high light sensitivity

Lund, Sweden

Axis Communications is re-leasing what it is terming as a one-of-a-kind network camera, that combines 4K resolution with an ultra-high light sensitive 4/3" image sensor for exceptional light sensitivity and forensic images in almost any scene.

Due for availability in October, the new camera features 4x zoom and a 12-48 mm Canon lens. The powerful and robust Axis Q1798-LE network camera comes with IP66, IP67 and IK10 ratings and can handle extreme temperatures ranging from -40 °C to 60 °C (-40 °F to 140 °F).

Designed with enhanced security features such as signed firmware and secure boot, it also includes Axis Lightfinder 2.0 technology for increased light sensitivity, more life-like colours in almost complete darkness and sharper images of moving objects. Additionally, it is possible to connect devices to the I/O ports to trigger alarms or actions and the supervised input sends a notification if the connection is cut.

Thanks to support for PoE and redundant DC power, this 4K camera is easy to install and data is safeguarded in the event of



Powerful and robust, the new Axis Q1798-LE network camera.

a power outage. Plus, Axis Zip-stream technology with support for H.264 and H.265 dramatically lowers bandwidth and storage requirements. Furthermore, there

is no need for expensive lighting – with built-in IR Illumination it offers unobtrusive surveillance in total darkness up to 50 m (164 ft) or more depending on the scene.

 The suppliers web site is linked to the global security web portal, www.securityworldmarket.com



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Mobotix launches new platform and cameras

Langmeil, Germany

Mobotix is launching the company's new Mobotix 7 open solution platform and the M73 high-end camera that uses it.

Supported by artificial intelligence and application solutions based on deep learning, the new generation of video cameras not only enables an unlimited set of functions but it also opens up new possibilities beyond traditional video security. This means that the **Mobotix systems** remain fully reliable and secure, as cyber security and data security continue to have high priority.

"The Mobotix 7 is by far our most powerful decentralised and secure modular IoT-video system based on deep learning modules, and sets new standards for intelligent video technology," *Hartmut Sprave*, Chief Technology Officer at Mobotix explained.

Our hardware and software are 'Made in Germany', and tailor-made camera apps provide limit-

less possibilities for expanding the Mobotix 7. This will revolutionise numerous IoT processes — not only for us, but for our technology partners and customers in various markets too."

Customised solutions

Mobotix 7 comes with pre-installed apps that are verified and certified by Mobotix and meet the company's high standards in terms of cyber security. These apps are supported by artificial intelligence (AI) and deep learning, and cover a significant number of industry-specific, individual requirements. It is also possible for partners, customers or users to develop and programme their own solutions and have these certified by Mobotix.

"This means that the range is

growing dynamically in response to customer needs, so virtually any current and future market requirement can be met with a tailor-made application installed directly on a camera featuring the Mobotix 7 platform," says Sprave.

Application specific analytics

The new Mobotix video system is also suitable for very particular and individual challenges in specific areas: For example, one of the Mobotix camera apps can detect when a building is in danger of becoming overcrowded. In this case, the camera would immediately and automatically trigger a diversion for any further persons wishing to enter the building, thus reliably preventing accidents and panic. By combining image sensors and environmental sensors with AI-based analytics, industrial enterprises can increase their production efficiency and improve fire prevention measures, for example.



Mobotix 7 open solution platform and the M73 high-end camera.

The object-based recognition of individual road users, such as trucks, cars or people, and their behaviour, such as stopping, accelerating and so on, is enabled for traffic and transport applications. The information that is immediately available can improve the road safety for drivers and passengers, while enabling other road users to continue moving in an unobstructed flow, according to Mobotix.

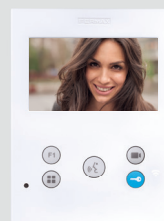
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Smart buildings: A fast growing market

Today's buildings have a lot more sensors and much more data is being collected than before – the buildings are "smart". Access control, identity management and video surveillance play a big role in these smart buildings.

"If you want to analyse your facility usage, occupancy, trending at certain doors, how to organise your security staff, which locations of the building might need more attention from maintenance – access control definitely has a role, says John Szczygiel, Executive Vice President and Chief Operating Officer at Brivo.

By Henrik Söderlund

According to Marketandmarkets, the global IoT smart building market will approach 51.44 billion dollars by 2023 and smart building automation systems will grow at a 48.3 percent CAGR to 2023. North America is leading the IoT smart building market with around one third of the total sales. Building management system platforms can aggregate big amounts of data from different equipment and applications and manage these via a single platform.

Harvesting useful data

David Sullivan, President of Vanderbilt International, stresses that access control can contribute to smart buildings in many ways. He says: "You can manage identity and you can start to determine when somebody is behaving differently and be able to utilise that data within your smart building application."

An example of that is that you can see where that person is going (with surveillance cameras and VMS) and track him or her throughout the building. You might also want to see some of the things he or she is doing with the other systems: is there an unusual behaviour or not?

David Sullivan says: "Whatever that case may be, you can take that data and be able to incorporate it into the other systems."

John Szczygiel, Executive Vice President and Chief Operating Officer at Brivo, also believes access control has a big role in smart buildings. He says: "Because it can

be used to harvest information and help and respond to events, so when something happens in a building, and there needs to be an evacuation, access control obviously plays a role."

Cyber security is an issue

Last year, IHS claimed that electronic access control systems are the leading type of security system being integrated into building management system platforms. And already in 2017, almost 30 percent of access control equipment shipments – including readers, door controllers and

“Access control systems are moving from the classical approach and we will see integration with deep learning and also with cyber security.

electronic locks – were installed and connected to a BMS platform, according to IHS.

The access control systems can provide high quality information to the BMS platform, such as who is in the building, where they are and how they move through the building. IHS also stresses that access control systems and identity management platforms provide the starting command that lists the tasks that users must accomplish once a specific person has entered the building, therefore, they are key.

The market for IoT in buildings is expected to almost double from 2017 to 2021. With so many connected devices and systems comes increased vulnerability and a



Today's buildings have a lot more sensors and much more data is being collected than before – the buildings are "smart".

robust building cyber security plan is critical.

Integration to building management

Pierre-Antoine Larrera de Morel, Sales Director at Stid Group, stresses that access control in smart buildings have become a necessity and that there is a trend where many companies are building mobile applications for users, managing smart buildings. Access control is integrated as part of the building management. He says: "That is why we provide mobile credentials to be integrated to existing build-

ing management applications. It is very important to bring that flexibility and to bring all the security of the traditional access control into the mobile applications for intelligent buildings."

to meet is already aware that the visitor has arrived."

Of course, these kinds of solutions can be applied in a residential building as well. Mobotix CEO Thomas Lausten considers access control to have been an embedded part of smart buildings for a few years. In the future, he thinks that access control will continue to have an impact on smart buildings like it has today, but it will be even smarter. He says: "Access control systems are moving from the classical approach and we will see integration with deep learning and also with cyber security. Because this is not only about video surveillance, it is also about who can access buildings, and here we see a strong focus and also integration possibilities."

Security in smart buildings

Baudouin Genouville, Suprema's Business Development Director for EMEA, thinks that video surveillance might be even more important than access control when it comes to smart buildings, but that access control gives very good information on who a person is. He also stresses white listing and black listing as two important means. White listing can be carried through by biometrics or access control: a person's identity is confirmed and since he or she is approved and "on the list" that person can be granted access. Black listing on the other hand, is more about video surveillance, Baudouin Genouville argues, and is based on the idea that there is →

→ some kind of database with individuals that are not allowed to be granted access and if an individual is identified by the video surveillance system he or she can be tracked.

Everything starts with identity

Freddie Parrman, CEO for Seriline, stresses that smart building management starts with who is entering the building. Therefore, identification is very important. Also, it is likely that there will be different authorisation levels in a smart building. Genetec CEO Pierre Racz says: "All parts of

a smart building can provide information that are used as inputs to the automated or semi-automated workflow. In particular changing the authorisation levels when people in the workflow have to do certain tasks."

For example, an employee might have to enter the building in person before being able to place an order, but not be able to do that from home or from another country.

Saving energy – and money

Operational efficiency is another key word for smart buildings. Why should lights be on in an

empty room or area of a building? Here, John Szczygiel from Brivo again highlights the role of access control in smart buildings. He says: "If you want to analyse facility usage, occupancy, trending at certain doors, how to organise your security staff, which locations of the building might need more attention from maintenance and things like that – access control definitely has a role in that smart building."

However, video surveillance also has an important role in smart buildings. Shengfu, Vivotek's Director of Marketing and Product planning, points out that a camera

can count people, and for example with a fisheye camera, you can look at heatmaps and track every individual movement. He says: "With fisheye cameras, we can know how many people there are in a building, or where the people are dwelling and staying. Based on this, we can control the air conditioning, even the light and ventilation, and so reducing the electricity consumption and saving power."

With cameras that provide an open platform, it is fairly easy to implement new apps that run onboard the camera to supply that added value for building management.

Panel of experts:



Aurélie Boyer, UTC Fire & Security.



David Sullivan, Vanderbilt International.



Freddie Parrman, Seriline.



Pierre-Antoine Larrena de Morel, Stid Group.



Håkan Johansson, Axis Communications.



John Szczygiel, Brivo.



Baudouin Genouville, Suprema.

Smart homes: Services about to flourish

The smart home market is expected to double from 2018 to 2024 with a CAGR of 12 per cent. That means it is going from 76.6 billion US dollars to more than 151 billion dollars.

"There are a lot of new entrants in the smart home segment, not only the traditional security providers", says Aurélie Boyer, Product Manager for ZeroWire & Security Devices at UTC Fire & Security.

According to Marketsandmarkets, there are many factors behind the growth of the smart home: a growing number of internet users and increasing adoption of smart devices, rising disposable incomes in developing economies, increasing importance of home monitoring in remote locations, a rising need for energy-saving and

low carbon emission-oriented solutions. Another is the large number of manufacturers expanding their smart home product portfolios.

Video is still key

Aurélie Boyer says: "It is a booming market. There are a lot of new entrants in the smart home segment, not only the traditional

security providers, but also players such as Google home, and these companies usually come first with a solution for the smart home and bring the security afterwards. We penetrate the market with security first and then integrate with the smart home functionalities as well."

She believes that video surveillance has been the most important technology when it comes to smart home integration. She says: "There is also a lot of focus on energy efficiency and integration with the smart thermostat, but I think video will remain number one for smart home integration."

Smart home services

Marketsandmarkets points out that proactive software and services are

two parts of the smart home market that will grow at a higher rate than the market as a whole. For many companies in the physical security industry, smart home services is a possible emerging market for the future. Home deliveries, like groceries, is an example of a service that could be done without the householder being home, but there must be a solution for door access. Aurélie Boyer says: "That is definitely one of the services we can bring to our customers and to the end users. With a smart home solution, you are able to remotely control your system and for example the door when you are not at home. This is definitely a trend that we see and we can bring this service to the market together with partners."

Thomas Schulz, from Assa Abloy Opening Solutions EMEA:

Access control for the next generation of smart buildings

Several ingredients make up what we call the “smart building”. But whatever recipe you use, integrated functionality, automation and greater sustainability feature. A smarter building should help you use resources more efficiently and work more flexibly – creating competitive advantage, if implemented well.

Thomas Schulz, from Assa Abloy Opening Solutions EMEA, highlights the role of electronic access control in an intelligent building.

According to Intel, by 2025 the global value of IoT technology could amount to \$6.2 trillion, most spread between healthcare and manufacturing sectors*. Intel identifies “digital locks” as a key category in what Cisco forecasts to be 500 billion online devices by 2030**. That sounds like a lot of wires. Yet, when it comes to smarter building security, it need not be. Wireless access control offers flexibility, intelligence and powerful security without a cable in sight.

Where once only secured just a building’s main entrance and perimeter, now you wirelessly equip interior doors to limit access to staff with specific needs or authority. Audit trails and user data flowing from doors back to the building management system inform smarter resource decisions.

Wireless devices with RFID readers are also easier to retrofit to older buildings. Not every smart building is constructed from the foundations up. In Assa Abloy’s most recent Wireless Access Control Report***, IHS Markit analyst Jim Dearing concurs: “[wireless] locks have fewer components plus they can be installed at any stage during construction, meaning they are a better fit for retrofit projects.”

One control panel, multiple smart functions

In a smart building, all technologies pull together – including access control. In an earlier edition of the report, Blake Kozak at IHS wrote: “Wireless locks are often specially

designed for integration with other systems. The integration capabilities and ease of use can be a significant benefit.” The right wireless devices are ready for single-seat building management.

Interoperability between security technologies also ends your reliance on proprietary solutions. You can onboard a new building, for example, by installing the best locks for the job, not merely whatever your legacy system has on the shelf.

Saving time and money

One Assa Abloy wireless lock technology, Aperio, is built on an open platform specifically for integration with third-party building systems and technologies. Aperio battery-powered cylinders, handles, es-cutcheons, security locks and server rack locks work with systems from over 100 different manufacturers. For example, at Ghent’s Hospital

Maria Middelares, Nedap’s AEOS platform integrated with Aperio wireless locks controls every door, credential and user from a single interface – saving the facility time and money.

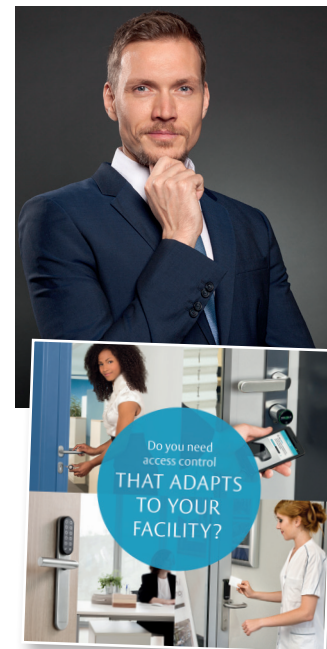
Smarter building security demands better energy efficiency

According to the Smart Buildings Alliance, buildings account for around 45 percent of our energy consumption****. One recent UK study by EDF Energy suggests the average organisation could save over £46,000 per year with simple energy efficiency measures*****.

The locks you choose have an impact – on power use, efficiency and ultimately sustainability. Magnets in a standard wired lock, for example, need mains electricity. They are always “on”. Most wireless locks are powered by an off-the-shelf battery. In the latest models, it needs replacing just once every 60,000 lock/unlock cycles*****.

Self-powered cylinders

An even smarter solution is offered by Pulse, a new electronic access control system with self-powered cylinders, padlocks and electronic keys – and no need for batteries or any external power supply. Energy harvesting technology generates electricity to activate a lock’s



Thomas Schulz’ and Assa Abloy’s approach to access control and smart buildings.

encrypted electronic security, just from the insertion and turning of a Pulse key. If the key’s Seos credential is authorised, the door unlocks. An IQ boost for any building that’s also simple, sustainable and smart.

Thomas Schulz

Assa Abloy Opening Solutions
EMEA Marketing & Communications
Director
Digital and Access Solutions

Download Assa Abloy’s 22-page “Wireless Access Control Report” for free
<https://campaigns.assaabloyopeningsolutions.eu/wacreport2018>

*: <https://www.intel.co.uk/content/www/uk/en/internet-of-things/infographics/guide-to-iot.html>

** : <https://www.cisco.com/c/dam/en/us/products/collateral/se/internet-of-things/at-a-glance-c45-731471.pdf>

***: <https://campaigns.assaabloyopeningsolutions.eu/wacreport2018>

****: https://www.smartbuildingsalliance.org/wp-content/uploads/2019/07/SBA_institutional_brochure_March19-min.pdf

*****: see <https://www.smartbuildingsmagazine.com/news/45m-energy-savings-waiting-to-be-unlocked-by-uk-organisations>

*****: for example, https://campaigns.assaabloyopeningsolutions.eu/hubfs/smartair/SMARTair%20standalone%20PDFs/WEB_Knob_Cylinder_Brochure_EUR.pdf

Do business in Denmark



SECTECH
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The Sectech 2020 event – featuring exhibition and seminars – will take place in Copenhagen on the 25th–26th of March at the newly renovated premises of Bella Center.

At this compact event over two days security professionals from all over Denmark will gather to see the latest innovations within security technology presented by exhibitors whether it is intruder alarms, video surveillance, access control and integrated security solutions.

As usual, the exhibition space is limited to about 40 exhibitors who will receive about 1,000 high quality professional visitors over two days.

As a security solution provider of importance, you should book your booth now – before it is too late.

Book your stand now!

For reservation please contact:

Deniz Baykal, Mobile: +46 73 987 53 33, deniz.baykal@armedia.se

www.Sectech.nu

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Detektor International Award 2019

The best security products of the year!

Stockholm, Sweden

The 20th Detektor International Awards prize ceremony took place at the security industry banquet, held after the first day of the Sectech exhibition in Stockholm on 19th of November 2019.

Twelve manufacturers from three continents were awarded and four of them were chosen as the overall winner in their respective product category: ID & Access Control

trol, Alarm & Detection, Video Surveillance and IoT Security. All receivers of the Detektor International Award 2019 are presented below.

ID & Access Control

The overall winner 2019

Iclass SE RB25F from HID Global (USA)



A fingerprint reader that increases image capture performance and fingerprint matching in under a second, reducing delays. It supports Seos-technology, is designed for two-factor authentication using fingerprint and/or high frequency credentials and can read and capture fingerprints that many other devices cannot, while protecting against fake and spoof fingerprints.

THE JURY'S MOTIVATION: "With speed, accuracy and versatility HID responds to the most demanding needs and takes fingerprint readers to a new level."

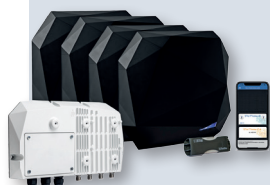
The Innovative Achievement Award 2019

Axis A8207-VE from Axis Communications (Sweden) Spectre from STid (France)



The network video door station **Axis A8207-VE** combines video surveillance, two-way communication, access control and remote entry control in a single device. It has a full-featured 6 megapixel IP camera and integrated RFID reader for access control and its open interfaces offer possibilities for integration so it can easily be combined with other systems.

THE JURY'S MOTIVATION: "Genuine open platform design for highly flexible integration puts this versatile Axis video door station in a class of its own."



Spectre is a UHF and Bluetooth multi-antenna reader for long range, automatic vehicle and driver identification. It offers reading distances of up to 13 metres and can control up to 4 lanes of vehicles simultaneously (up to four antennas can be connected to the same reader), even in

harsh environments and can identify both vehicle ID and identify an authorised driver simultaneously.

THE JURY'S MOTIVATION: "With this long range reader STid introduces an impressive fast and innovative solution to meet the real world vehicle ID challenges."

Video Surveillance

The overall winner 2019

MIC IP Ultra 7100i from Bosch Building Technologies (Germany)



The first ruggedised PTZ camera with UHD ("4K") resolution (3840 x 2160 pixels) with built-in video analytics and machine learning, ideal for outdoor applications and tough environments. It offers intelligent tracking and object detection and can detect moving objects and classify them even when the camera pans/tilts/zooms. Generates meta data that includes GPS position of all moving objects.

THE JURY'S MOTIVATION: "This super-camera for outdoor applications and tough environments has everything it takes to be a winner"

The Innovative Achievement Award 2019

M73 from Mobotix (Germany) Eagle Eye Cloud VMS from Eagle Eye Networks (USA)



M73 is a network camera with a modular system, which allows a customised combination of up to three optical and functional modules, including very easy installation of the camera and its modules, with no focusing of the lenses necessary. The camera delivers 30 frames per second in 4K UHD; 3840x2160

pixels and it offers adaptive bandwidth management as basis for IoT: less data by only transferring relevant images (sections) via network.

THE JURY'S MOTIVATION: "Complex intelligence at the edge offers first-rate performance, whilst simple modular structure gives flexibility and ease of use."



Eagle Eye Cloud is an open, scalable VMS that provides compatibility with a broad array of cameras and it makes Video Surveillance-as-a-Service much more achievable. It provides simultaneous

operations, search, and cloud storage for fixed and mobile cameras and there is no software to buy and install, no license keys, and no OS to maintain. The open API architecture delivers unlimited video analytics from partners.

THE JURY'S MOTIVATION: "This true open platform cloud solution with virtually unlimited scalability represents a significant step forward in its field."



The first prize winners collect their trophies (left to right) Björn Admeus, Bosch Building Technologies, (Video Surveillance), Pierre Parrman, Seriline (IoT Security), Raffaele De Astis, Cias (Alarm & Detection) and Dahn Sadarangani HID Global (ID & Access Control).

IoT Security Products

The overall winner 2019

Serix from Seriline (Sweden)



A platform with an easy, single interface for managing identities and access management for all connected systems – if the end customer has standalone

systems that they need to manage in their everyday work, all these can be connected to Serix. The platform has a fully integrated self-service portal where the user can apply for new access areas, change PINs themselves and manage their visitors etc.

THE JURY'S MOTIVATION: "With this commendable, effective yet simple and open solution Seriline brilliantly brings disparate access & ID requirements into one place."

The Innovative Achievement Award 2019

Maxpro Cloud from Honeywell (USA)

CS Vision from Consilium (Sweden)



Maxpro Cloud is an open architecture integrated, cloud-based video, access and intruder management system for multi-location small to medium businesses that enables business owners to streamline security management and control of multiple sites. Completely service based – which opens up for a Security as-a-Service business model.

THE JURY'S MOTIVATION: "With the ingenious design of Maxpro Cloud, Honeywell offers a highly versatile solution for multi-site SMEs to streamline security with total visibility and control."



CS Vision is a tailor-made IoT platform for configuring and customising security system features and gives the user a direct overview of the status and function of the system. A fire alarm system such as the Consilium FG5000 together with CS

Vision can, for example, visualise and integrate temperature or other environmental data if it may be of interest for ventilation etc.

THE JURY'S MOTIVATION: "With this brave innovation Consilium signals the fire industry's inevitable move from proprietary to open standards."

Alarm & Detection

The overall winner 2019



Micro-Ray 100 from Cias (Italy)

Micro-ray barrier for outdoor perimeter protection with 100 metres detection range and a detection height of up to 3 metres. Provides a linear ray covering a very narrow area, but, unlike infra-red beams, are not affected by temperature, glare, solar reflections, fog and do not need frequent maintenance. It is IP ready and able to integrate with major CCTV and access control platforms and the power consumption is only 120mA per beam.

THE JURY'S MOTIVATION: "With this unique microwave system Cias brings an exceptional contribution to the perimeter protection market."

The Innovative Achievement Award 2019

DS-2TD1217-2/V1 from Hikvision (China)

WX Shield Series from Optex (Japan)



DS-2TD1217-2/V1 is a thermal & optical network turret camera equipped with built-in GPU which supports intelligent behaviour analysis algorithms. It can realise high precision VCA detection and real-time alarm for indoor fire prevention and intrusion detection. The bi-spectrum image technology (capturing images using both visible light and infrared light) creates a picture-in-picture preview and image fusion, which can capture what caused the alarm.

THE JURY'S MOTIVATION: "Through a combination of smart analytics, thermal and optical technologies, Hikvision succeeds in offering an impressive solution for early detection and optimum performance."



WX Shield Series are outdoor PIRs for homes and small businesses that offer panoramic 180-degree detection coverage and 12m/40ft radius for perimeter protection. The sensors feature two completely independent 90 degrees detection areas with the flexibility to configure individually the settings, sensitivity level and triggering independent alarm outputs for the left and right areas.

THE JURY'S MOTIVATION: "Steadfast Optex demonstrates relentless innovation with this panoramic outdoor detection solution."



THE OVERALL
WINNER
ID & ACCESS CONTROL



iCLASS SE[®] RB25F – Fingerprint Reader

The jury's comment:

"With speed, accuracy and versatility HID responds to the most demanding needs and takes fingerprint readers to a new level!"





Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD
WITHIN THE CATEGORY OF
ID & ACCESS CONTROL



AXIS A8207-VE

Network Video Door Station

The jury's comment:

"Genuine open platform design for highly flexible integration puts this versatile Axis video door station in a class of its own."

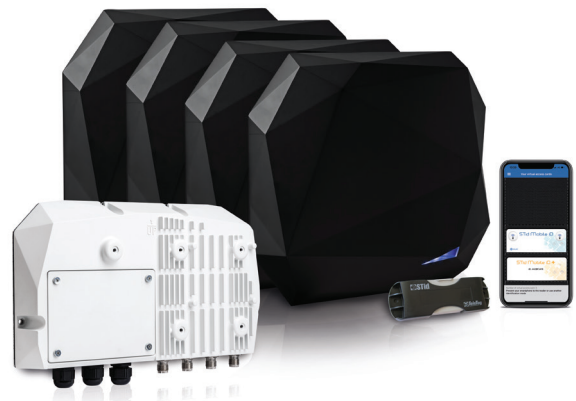


www.axis.com



Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD
WITHIN THE CATEGORY OF
ID & ACCESS CONTROL



Spectre

UHF & Bluetooth Scalable Long Range Reader

The jury's comment:

"With this long range reader STid introduces an impressive fast and innovative solution to meet the real world vehicle ID challenges."



www.stid-security.com



THE OVERALL
WINNER
VIDEO SURVEILLANCE



MIC IP Ultra 7100i Camera

The jury's comment:

"This super-camera for outdoor applications and tough environments has everything it takes to be a winner."



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www.boschsecurity.com



Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD
WITHIN THE CATEGORY OF
VIDEO SURVEILLANCE



Eagle Eye Cloud VMS

the #1 in Cloud Video Surveillance Worldwide

The jury's comment:

"This true open platform cloud solution with virtually unlimited scalability represents a significant step forward in its field."



www.een.com



Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD
WITHIN THE CATEGORY OF
VIDEO SURVEILLANCE

MOBOTIX M73 Camera



The jury's comment:

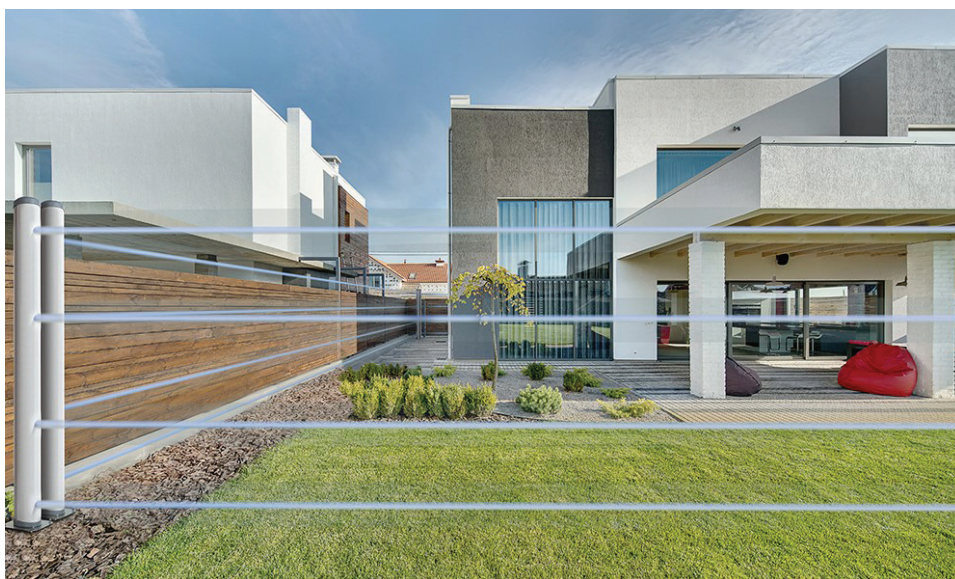
"Complex intelligence at the edge offers first-rate performance, whilst simple modular structure gives flexibility and ease of use."

MOBOTIX

www.mobotix.com



THE OVERALL
WINNER
ALARM & DETECTION



Micro-Ray 100 – The first barrier with microwave rays

The jury's comment:

"With this unique microwave system Cias brings an exceptional contribution to the perimeter protection market."

SINCE 1974

CIAS®

The Cias logo features the text "SINCE 1974" in a red, sans-serif font. Below it is a graphic consisting of several red, curved, parallel lines that resemble a stylized "C" or a series of waves. At the bottom, the word "CIAS" is written in a large, bold, red, sans-serif font, followed by a registered trademark symbol (®).



Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD
WITHIN THE CATEGORY OF
ALARM & DETECTION



DS-2TD1217-2/V1

Thermal & Optical Network Turret Camera

The jury's comment:

"Through a combination of smart analytics, thermal and optical technologies, Hikvision succeeds in offering an impressive solution for early detection and optimum performance."

HIKVISION

www.hikvision.com



Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD
WITHIN THE CATEGORY OF
ALARM & DETECTION



WX Shield Series

180 Degree Outdoor Intrusion Sensors

The jury's comment:

"Steadfast Optex demonstrates relentless innovation with this panoramic outdoor detection solution."

OPTEX
Sensing Innovation

www.optex-europe.com



THE OVERALL
WINNER
IoT SECURITY



Serix IAM – Identity & Access Management System

The jury's comment:

"With this commendable, effective yet simple and open solution Seriline brilliantly brings disparate access & ID requirements into one place."



www.seriline.se



Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD WITHIN THE CATEGORY OF IoT SECURITY



CS Vision

Fire alarm and management system

The jury's comment:

"With this brave innovation Consilium signals the fire industry's inevitable move from proprietary to open standards."



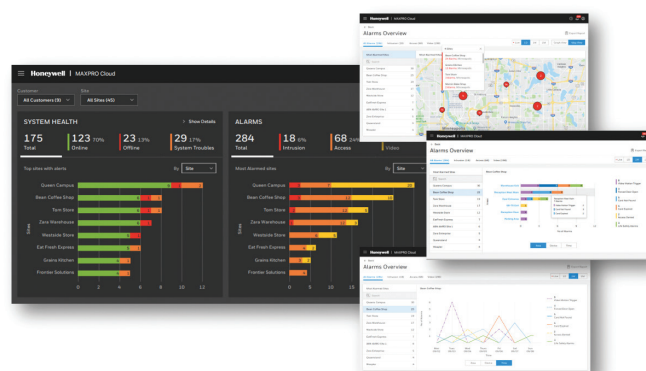
Consilium Säkerhet

www.consilium.se



Innovative Achievement 2019

INNOVATIVE ACHIEVEMENT AWARD WITHIN THE CATEGORY OF IoT SECURITY



MAXPRO Cloud

Security System Management System

The jury's comment:

"With the ingenious design of Maxpro Cloud, Honeywell offers a highly versatile solution for multi-site SMEs to streamline security with total visibility and control."



www.security.honeywell.com

Security Events Calendar

December



3-4 December International Security Expo - London, United Kingdom

Venue: Olympia
Organiser: Nineteen Events
Tel: +44 20 8947 9177
Email: info@internationalsecurityexpo.com
Website: www.internationalsecurityexpo.com



3-4 December International Security Expo - London, United Kingdom

Venue: Olympia
Organiser: Nineteen Events
Tel: +44 20 8947 9177
Email: info@internationalsecurityexpo.com
Website: www.internationalsecurityexpo.com

January 2020



19-21 January Intersec - Dubai, United Arab Emirates

Venue: Exhibition Centre Arena
Organiser: Messe Frankfurt Middle East GmbH
Tel: +971 4389 4500
Email: intersec@uae.messefrankfurt.com
Website: www.intersecexpo.com

February 2020



25-28 February Sicur - Madrid, Spain

Venue: Feria de Madrid
Organiser: IFEMA
Tel: +34 902 22 15 15
Email: visit.registro@ifema.es
Website: www.ifema.es/en/sicur

March 2020



8-13 March Intersec Building - Frankfurt, Germany

Venue: Frankfurt am Main
Organiser: Messe Frankfurt Exhibition GmbH
Tel: +49 697575-0
Email: intersec-building@messefrankfurt.com
Website: www.intersec-building.com



17-19 March ISC West 2020 - Las Vegas, United States

Venue: Sands Expo
Organiser: Reed Exhibitions
Tel: +1 203.840.5602
Email: inquiry@isc.reedexpo.com
Website: www.iscwest.com



17-19 March Securex Kazakhstan 2020 - Almaty, Kazakhstan

Venue: Atakent International Exhibition Centre
Organiser: Iteca
Tel: +44 (0) 203 545 9742
Email: Pietro.Dedola@hyve.group



25-26 March Sectech Denmark - København, Denmark

Venue: Bella Center
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.sectech.nu
Visit AR Media at Sectech Denmark

May 2020



13 May #TrygghetNu - Stockholm, Sweden

Venue: Clarion Hotel Stockholm
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.securityuser.com/se/Event
Visit AR Media at #TrygghetNu



19-21 May Ifsec - London, United Kingdom

Venue: ExCel London
Organiser: UBM
Tel: +44 (0)20 7921 8166
Email: ifsecustomerservice@ubm.com
Website: www.ifsec.events/international/

June 2020



24-25 June Sicherheits Expo - München, Germany

Venue: MOC Munich
Organiser: NETCOMM GmbH
Tel: +49 (0)89-88 94 93 70
Email: info@netcomm-gmbh.de
Website: https://www.sicherheitsexpo.dey

July 2020



22-24 July Security Exhibition & Conference - Melbourne, Australia

Venue: Melbourne Exhibition & Convention Centre
Organiser: Diversified Communications Australia
Tel: +61 9261 4662
Email: mclendinen@divcom.net.au
Website: www.securityexpo.com.au

September 2020



22-25 September Security Essen - Essen, Germany

Venue: Essen Fair venue
Organiser: Messe Essen
Tel: +49 (0)201 72 44-524
Email: julia.jacob@messe-essen.de
Website: www.security-essen.de/impetus_provider/

October 2020



14-16 October Perimeter Protection - Nurnberg, Germany

Venue: Exhibition Centre Nuremberg
Organiser: Nurnberg Messe GmbH
Tel: +49 911 8606 8499
Email: perimeter-protection@nuernbergmesse.de
Website: www.nuernbergmesse.de/security



20-22 October Skydd - Stockholm, Sweden

Venue: Stockholm Fair ground (Stockholmsmässan)
Organiser: Stockholm Fair
Tel: +46 8 749 4100
Email: info@stockholmsmassan.se
Website: www.skydd.net
Visit AR Media at Skydd

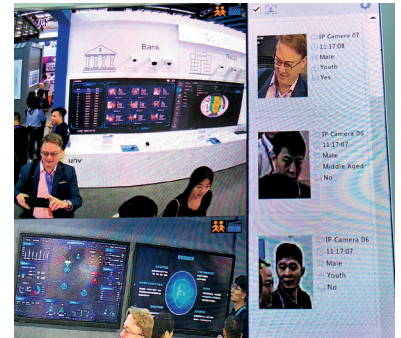
November 2020



10-12 November PSecurexpo East Africa - Nairobi, Kenya

Venue: Sarit Exhibition Center
Organiser: Montgomery Group
Tel: +44 (0)20 7886 3039
Email: Gemma.Hore@montgomerygroup.com
Website: www.securexpoeastafrica.com/

Detektor International takes no responsibility for any changes to the details of the above mentioned events. Please always contact the organisers in each case to confirm the dates and venues. www.securityworldmarket.com/int/Security-Events



China Public Security Exhibition (CPSE) has become not only the world's largest security show, but also the most influential exhibition in Asia.

AI in focus at the world's largest security exhibition

China Public Security Exhibition (CPSE) has become not only the world's largest security show, but also the most influential exhibition in Asia. Held at the Shenzhen Convention and Exhibition Center on 28th to 31st of October the event attracted more than 100,000 visitors.

Trend wise the CPSE exhibitors were very much focused on showing technology based on some kind of analytic software and the buzzterm was of course Artificial Intelligence (AI).

By Lennart Alexandrie

Founded in 1989, CPSE is the only security exhibition in China that has been certified by the BPA and has been successfully organized for 17 sessions to date.

CPSE 2019 featured a massive display of products from 11,000 exhibitors. Much was about video surveillance, often featuring analytics of different designs. AI, deep learning and machine learning were terms constantly used by the exhibitors during the four days at CPSE.

Face recognition at the forefront

But if there was any technology that stood out more than anything else at the show, then it must have been facial recognition systems. Never before at a security exhibition have I experienced so

many alternatives regarding facial recognition technologies. Not surprisingly though, the technology is widely used by the police and other government authorities in China and now the technology is becoming commonplace in less

“ *Never before at a security exhibition have I experienced so many alternatives regarding facial recognition technologies.*

security-conscious applications, which will boost this emerging market even further.

The number of facial recognition system solutions was impressive, but it has to be said that not everything that was on display at CPSE was ready to be released on the market. One of the face recognition systems I tested was

defining the sex and the age of the people caught on camera. I was, despite my 61 years of age, considered as a “youth” by the system, good for my confidence maybe, but not for the system's credibility.

Enormous domestic market

However, whether the advanced intelligent security systems on display at CPSE are ready or not, this security exhibition is a true window into the technology of the future. The development within intelligent technologies is moving fast and China is investing a lot in AI. The enormous Chinese

domestic market also helps local developers of intelligent technologies to prepare for export markets.

Vertical markets in focus too

A clear trend at CPSE was also that the manufacturers and developers of security systems are thinking about how to use the systems and for what purpose and in what kind of environment. All major suppliers, such as Hikvision, Dahua and Uniview were very much displaying their solutions in a vertical context, like a display area in their stands for showing how their systems work in health care, or in educational campuses, public transportation, retail etc.

A paradise for tech geeks

Apart from video surveillance equipment, all kinds of security system solutions were represented and exhibited at CPSE – from access control and alarm systems, including biometric recognition systems, modern robots for different security tasks – to drone and anti-drone solutions.

For security technology geeks – CPSE is a true paradise.



Deniz Baykal,
project manager
for Sectech.



Lennart Alexandrie,
CEO of AR Media
International.

Sectech Denmark, March 25–26, 2020:

The first Scandinavian security event in 2020

When Sectech Denmark is organised on March 25–26, 2020, it will be the first time that the event in Copenhagen will take place in the spring. The move from autumn to spring means that Sectech will start the fair year for the security industry in Scandinavia.

The Sectech series of shows was first launched in 2001 and has taken place every two years in Denmark during the autumn since 2002. The organisers, AR Media International and the International Stockholm Fair, see several advantages in changing the timing of Sectech Denmark to the spring.

– Exhibitors and visitors have also requested that we move Sectech Denmark from the autumn as both Skydd in Sweden and Security Essen in Germany, the largest security exhibition in the in the Nordics and respectively Europe, also take place during the same period every two years, says

Lennart Alexandrie, CEO of AR Media International.

Deniz Baykal, project manager for Sectech, also sees only benefits from the move from November to March.

– We are very pleased that we managed to move Sectech to March, so the time gap between the different Scandinavian events increases, which is good for both the exhibitors and for the visitors, she says.

International expertise

As usual, Sectech 2020 will be held at the Bella Center in Copenhagen and will focus on services and prod-

The event will attract around 1,000 security buyers, both from the supplier chain and from the end user chain.

ucts based on security technology. In addition there are seminars that cover everything from technology trends to business trends and how security market players can contribute to – and benefit from, the ongoing IoT development and the growth of smarter homes, buildings and entire cities.

the Scandic Hotel Scandinavia in central Copenhagen to Bella Center. But the design of the event will be the same as before, a compact and small event with 40 stands meeting up with high quality visitors.

– The success of Sectech is very much based on the format.

” We also hope to attract international expertise that gives visitors and exhibitors an insight into the global market trends for security.

– We also hope to attract international expertise that gives visitors and exhibitors an insight into the global market trends for security, says Lennart Alexandrie, who is also responsible for the seminar programme.

ROI – the Sectech aim

Last year, Sectech moved from

The event will attract around 1,000 security buyers, both from the supplier chain and from the end user chain. Offering the right content for these security professionals will give the 40 exhibitors return on their investment, and that is always our aim, to deliver ROI, concludes Lennart Alexandrie.

Classified Ads

Access Control



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Perimeter Protection



Manufacturer of perimeter protection systems

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www.forteza.com

Perimeter Protection



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Security Trade Press



Do business in Denmark



SECTECH
EXPO & SEMINARS / DENMARK
COPENHAGEN 25-26 MARCH 2020

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Book your stand now!

For reservation please contact:

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www.Sectech.nu

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