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SECURITY SOLUTIONS **TODAY**



SUSTAINABILITY IN SECURITY INDUSTRY - HOW FAR CAN WE GO?

Show Review

intersec 

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HID ENHANCES ITS PKI OFFERINGS WITH ACQUISITION OF TRUSTED CERTIFICATE SERVICE PROVIDER ZEROSL

Deal reinforces HID's commitment to expanding PKI and IoT offering.

Austin, Texas – HID, a worldwide leader in trusted identity solutions, announces the acquisition of ZeroSSL, an SSL certificate provider based in Austria. The acquisition will not only augment HID's capabilities in providing protected communications to and from websites but also strengthen its reputation as a leading provider of trusted PKI solutions.

"This acquisition marks another step in expanding our PKI and IoT business," said Martin Ladstaetter, HID Senior VP and Managing Director for IAMS. "Bringing ZeroSSL's established expertise and strong brand into the HID portfolio reinforces our commitment to safeguarding digital transactions while expanding our suite of offerings."

SSL certificates create an encrypted connection between a web server and a browser, safeguarding data privacy. Issuing more than 500,000 monthly certificates to more than 2.4 million user accounts globally, ZeroSSL's robust offerings include an automated e-commerce

platform for SSL certificates and integration services for lifecycle management of those certificates. Without such automation, website operators and owners must manually manage the SSL certificate, thereby risking outages due to human errors and ensuing cybersecurity risks.

"We welcome ZeroSSL to the HID family and are excited to leverage their platform and technology to enhance the customer experience," said Björn Lidefelt, EVP and Head of HID. "I look forward to further developing our PKI/IoT solutions as a growth driver for HID."

Moving forward, ZeroSSL's offerings will be integrated into HID's PKI and IoT Business Unit, allowing HID to be better positioned to provide even stronger authentication, better encryption services, and more comprehensive validation procedures for organizations engaging in large-scale online transactions.

For more information, please visit www.hidglobal.com. ■

MILESTONE SYSTEMS FIRST TO ADOPT G7 CODE OF CONDUCT FOR ARTIFICIAL INTELLIGENCE

Singapore – Milestone Systems, a leading 2 – Milestone Systems first to adopt G7 Code of Conduct for Artificial Intelligence ng provider of data-driven video technology software, has decided to adopt and implement the G7 Code of Conduct for advanced Artificial Intelligence (AI) systems, becoming one of the first companies to do so.

"We need rules to ensure AI is being developed to serve humanity. But companies should not wait for regulation. They must take their own steps to identify and resolve the weaknesses and pitfalls of the AI they develop," says Thomas Jensen, CEO of Milestone Systems, and continues:

"When it comes to AI-enabled video, we have just scratched the surface of its potential benefits and uses. However, we also understand some of the pitfalls, such as bias and false positives."

"At Milestone Systems, we are taking significant steps to address potential weaknesses of our tools. By signing up to the G7 Code of Conduct, we will continue to focus our efforts on building our software with trust, transparency, and accountability at the front of our minds."

The International Code of Conduct for Organizations

Developing Advanced AI Systems aims to promote safe, secure, and trustworthy AI worldwide. It was agreed by G7 leaders at the end of October 2023 alongside a set of Guiding Principles for the world's most powerful democracies to follow when developing new AI systems. Milestone System's decision comes as the European Union has agreed on its own AI Act.

Applaud the AI Act

"While we applaud the AI Act, it will take a while before it is implemented, potentially a couple of years. In the meantime, we believe companies should strive to stay ahead of the regulation," Thomas Jensen says and adds: "We must not shutter innovation, but to prevent a public and regulatory backlash, AI businesses should be striving to build trustworthy AI. Adopting the G7 Code of Conduct is one such step all companies should take to help ensure responsible use of technology and foster public trust in the new possibilities it presents."

For more information, please visit <https://digital-strategy.ec.europa.eu/en/library/hiroshima-process-international-code-conduct-advanced-ai-systems>. ■

CYBERSECURITY 2024: THE SOFTWARE MARKET IN SINGAPORE

- *OTRS survey: Integration capabilities are of key importance among security professionals*
- *Few companies in Singapore have robust complete security toolkit at the ready*
- *Funding is needed to improve response times and keep the business safe*

Singapore – If Singapore cybersecurity specialists had one wish for software manufacturers this year, it would most likely be for their security toolbox to be less complex and more easily integrated.

When asked about top challenges of managing and maintaining multiple security tools, 57 percent shared that training was the greatest challenge. Quickly following this, each at 55 percent, were integration difficulties and lack of centralized visibility. This is despite the fact that Singapore security teams use a variety of technologies to keep their businesses safe.

These are the results of the third part of the “OTRS Spotlight: Corporate Security 2023[LB1]” survey, for which the software company OTRS Group, in collaboration with the market research company Pollfish, surveyed 500 IT and cybersecurity professionals, including 100 in Germany.

Functionality and integration capability are as important as cost

Many in Singapore (79 percent) are satisfied or very satisfied with the integration and interoperability of their tools, compared to 71 percent on average for all global respondents. Perhaps this is because integration capabilities (50 percent) are a key criteria for software purchases in Singapore. Additional top considerations are functionality (57 percent), scalability (53 percent), cost (53 percent), and security/compliance features (50 percent).

Additional funding is needed to round out security toolkits

These criteria are important to keep in mind as only 15 percent of those surveyed use a complete security toolkit consisting of SIEM (security information and event management), SOAR (security orchestration, automation and response), vulnerability management, XDR (extended detection and response) and TI (threat intelligence) software.

There is room for growth in other companies. Nearly three-quarters (73 percent) use a vulnerability solution. This is followed by SIEM (65 percent), TI (63 percent), SOAR (56 percent) and XDR (44 percent).

The need to expand security toolkits is supported by the fact that 34 percent think that more investment in software is needed. Other funding requests were support for security



awareness training (30 percent), infrastructure (23 percent) or more personnel (18 percent). Less than half (42 percent) were satisfied with the current level of funding that IT and cybersecurity receive.

Growth expected for XDR and SOAR solutions

As security teams work to improve their ability to meet the demands of today's security environment, many are planning to introduce XDR (47 percent) and SOAR (34 percent) solutions.

Afterall, international security teams see great advantages in SOAR software for the SOC (Security Operations Center). At 54 percent of all global respondents surveyed, most feel that using the software makes it easier for them to collaborate with IT. Around half of respondents (51 percent) say that the benefits of SOAR software for their SOC are that it improves response times as well as incident tracking and reporting.

In Singapore specifically, teams are seeing even greater benefits with 68 percent stating that SOAR software improves response times. At 55 percent each, teams also observe that it makes remediation faster, minimizes business disruption and protects them from future incidents.

Jens Bothe, Vice President Information Security at OTRS AG, encourages security teams: “Although there are many tools on the market that leave a lot to be desired in terms



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of integration options and interoperability, security teams should not bury their heads in the sand and give up the search prematurely. After all, error-prone manual processes or even unsecured communication pose an enormous security risk and cannot be the alternative. Tools such as robust SOAR software not only save teams valuable time

through automated processes and secure integrations with other tools, but also ensure that they can respond quickly and effectively to threats and incidents while also easily conforming with compliance guidelines.”

For more information, please visit www.otrs.com. ■

LG OPENS NEW SCROLL COMPRESSOR PRODUCTION LINE IN MEXICO

Increased manufacturing capacity to strengthen company's competitiveness, help it meet growing demand from north american businesses.

Singapore - LG Electronics announces the opening of a new scroll compressor production line at its factory in Monterrey, Mexico. The new line bolsters LG's scroll compressor manufacturing infrastructure, enabling the company to produce more of its acclaimed, eco-conscious solutions while creating a shorter supply chain for servicing customers across North America.

LG's decision to establish a production line in Mexico comes at a time when many U.S. HVAC manufacturers are facing challenges due to escalating logistical disruptions. The strategic move places an LG scroll compressor production base in close proximity to key North American markets; setting up a production/logistics system that will help the company better respond to regional demand and lessen the impact on customers of factors such as exchange rate fluctuations and trade issues.

LG's scroll compressors play a major role in the company's heating, ventilation and air conditioning (HVAC) components business. At AHR Expo 2023 in Atlanta, Georgia, LG showcased its energy-efficient Gen 3 Scroll Compressors for residential air conditioners and heat pumps, as well as large-capacity scroll compressors for commercial system air conditioning.

Designed with the future in mind, Gen

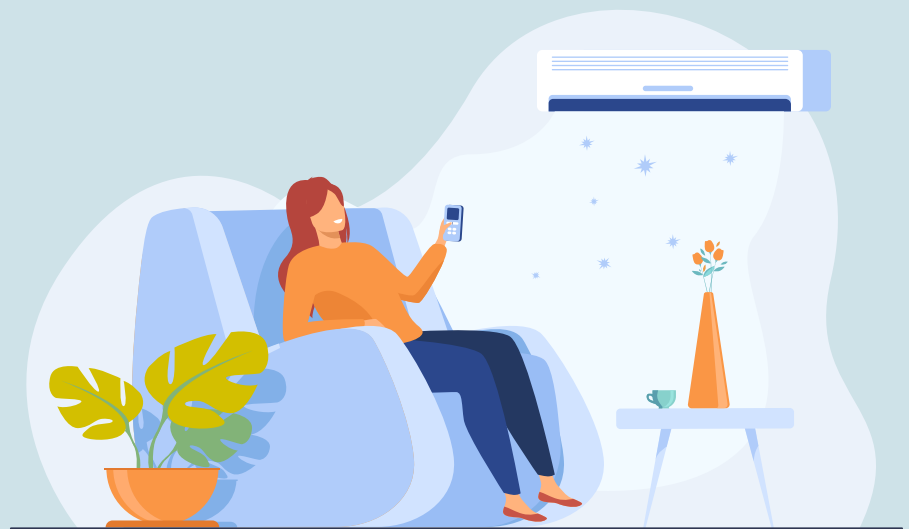


Image by pch.vector on Freepik

3 Scroll Compressors are symbolic of LG's continuing leadership in HVAC innovation. In anticipation of refrigerant regulations taking effect in 2025¹, and in line with the company's commitment to the environment and sustainability, the compressors utilize low Global Warming Potential (GWP) refrigerants.

With a GWP of 750 – far lower than the 2,088 GWP of R410A – these refrigerants easily meet the newest eco-focused standards for refrigerants and contribute to the excellent energy efficiency of LG's HVAC solutions. The structure of the Gen 3 Scroll Compressors' motor also helps to ensure compliance with the latest efficiency standards by reducing energy waste and heat loss.

“The new, state-of-the-art production line in Mexico will enable us to produce more of our eco-conscious scroll compressors and fortify our ability to service the North American market,” said Kim Yang-sun, head of the Component Solution Business Unit at LG Electronics Home Appliance & Air Solution Company. “LG will continue to provide advanced technologies and components to meet the diverse needs of its global customers.”

¹ The state of California has passed legislation that will ban the use of refrigerants with a GWP over 750 from the year 2025.

For more information, please visit www.LGnewsroom.com. ■

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LYNRED APPOINTS HERVÉ BOUAZIZ AS EXECUTIVE PRESIDENT AND XAVIER CAILLOUET AS CEO

Both appointed as executive corporate officers and legal representatives of the company.

Grenoble, France – Lynred, a leading global provider of high-quality infrared detectors for the aerospace, defense and commercial markets, today announces the appointment of Hervé Bouaziz as executive president and Xavier Caillouet as CEO.

Hervé Bouaziz and Xavier Caillouet bring more than 30 years of executive-level high-tech industrial expertise to Lynred. Their decades of experience in aerospace and defense at Safran and Thales, respectively, will usher a new business dynamic within the company. Their objective is to leverage together the company's technological skills and the €85M (\$93.7M) Campus industrial project to increase Lynred's offering in state-of-the-art infrared detectors, while strengthening its global market competitiveness.

"I am proud to join Lynred," said Hervé Bouaziz, executive president at Lynred. "I look forward to working alongside all the teams in accomplishing the company's ambitions and furthering the growth of this French industry technological flagship."

As the European market leader in infrared detection, Lynred has pioneered many breakthrough developments. Currently, it is leading the EU HEROIC project, a consortium of 10 European partners developing next-generation devices for defense and security. It is also designing infrared detectors for imaging satellite instruments for several European Earth observation missions, such as LSTM. Among other projects, the company is collaborating with partners to help car makers improve the reliability of collision prevention systems by detecting pedestrians or obstacles in adverse visibility conditions, particularly at night.

"It is an honor to join Lynred and to be able to contribute to this great industrial adventure," added Xavier Caillouet, CEO at Lynred.

Hervé Bouaziz has 30 years' aerospace, defense and security experience. He joins Lynred from Europrop International, where he served as CEO for four years. Previously, he worked for a decade at Safran where he held several executive and strategic roles in electronics and defense, including his appointment in 2013 as executive VP for strategy and M&A at Safran Electronics and Defense, and in 2016 as VP for military engines programs at Safran Aircraft Engines. Prior to that, Mr. Bouaziz had a 20-year career at the French defense




procurement agency DGA, where he first started as a test engineer in 1994. Subsequent promotions within the organization led to his taking charge of the air-to-ground capabilities of the Mirage 2000 and Rafale in the DGA's aircraft program directorate and being named director of the Mirage 2000 N and D program. Following that, in 2005 he was appointed deputy armaments attaché at the French embassy in Washington, D.C. He returned to France in 2008 and to the DGA as head of the armed forces systems division at the Defense Analysis Center. Mr. Bouaziz holds degrees from the Ecole Polytechnique (1988) and Sup'Aero (1993) engineering schools, as well as the Industrial College of the Armed Forces in the United States (2005). He also earned his air force pilot wings in 1994.

Xavier Caillouet comes to Lynred following a 30-year career in international roles within various Thales divisions. Recently, he was VP of Radiology at Thales and CEO of Trixell, a position he held for five years. Between 2013 and 2018, he served as VP of operations in airlines support for Thales Avionics, where he oversaw operations in four countries, including the US and China. Prior to that, Mr. Caillouet managed strategy and product policy as VP of navigation and surveillance for Thales Air Systems in Europe and the US, a position he held following his two-year role as director of projects and development. For a period of 10 years earlier in his career, Xavier Caillouet undertook successive managerial roles within Thales, including managing director of Thales Avionics Asia in Singapore and CFO of Thales Avionics Inc. in the US. He holds a degree in engineering (1983) from Sup'Aero, a leading French institution for aerospace.

For more information, please visit www.lynred.com. ■

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HYSTER-YALE GROUP AND PORTXGROUP ENTER EXCLUSIVE AGREEMENT TO ELEVATE MATERIALS HANDLING SOLUTIONS IN ASIAN SEA PORTS & TERMINALS

Singapore – Hyster-Yale Group, a leading integrated full-line lift truck manufacturer, is pleased to announce a strategic partnership with PortxGroup, a prominent player in logistics solutions, to exclusively distribute Hyster® products in key Asian sub-regions. The agreement positions PortxGroup as the sole Hyster dealer for sea ports and terminals in Thailand, Malaysia, Indonesia, and South Korea, adding to PortxGroup's earlier appointment as a Hyster dealer for the Pacific region.

PortxGroup has been an invaluable representative for Hyster in the Pacific Islands for the past two years, demonstrating unparalleled success in challenging environments and port development projects. Leveraging its extensive experience and robust networks in the sea ports and container terminals across Asia, PortxGroup will focus on expanding the presence of Hyster's container handling equipment in the region.

Mr. Simon Munn, Vice President, Dealer Development, JAPIC, Hyster-Yale Group, expressed enthusiasm about the exclusive partnership, stating, "PortxGroup's proven track record, extensive experience, and commitment to customer satisfaction make them the ideal partner to represent Hyster exclusively for sea ports and terminals in these key Asian markets. We believe that their dedication to excellence aligns perfectly with the values of Hyster-Yale Group."

In response to the appointment, Mr. Peter McLean, Principal at PortxGroup, shared his excitement about becoming an exclusive Hyster dealer for sea ports and terminals in Asia. He stated, "I am honored to be given the opportunity to be a Hyster dealer for sea ports and terminals.



Image by macrovector on Freepik

Asia is one of the most dynamic and diverse regions — a territory that requires a business that is fiercely committed to customers."

McLean emphasized the strategic importance of the partnership, highlighting the comprehensive range of high-quality tier-one materials handling equipment and sophisticated engineering solutions that PortxGroup will now offer to sea ports and terminals in the region. "This exclusive dealership enables us to provide one-stop-shop solutions, delivering the renowned quality of the Hyster brand combined with our long-term partnership approach to business," he said.

Effective 1 December 2023,

PortxGroup serves as the exclusive Hyster dealer in the designated sea port and terminal areas, and Munn is confident in the success of this new venture. He added, "We are excited about the potential that this exclusive partnership with PortxGroup holds. With their strong industry presence and our commitment to innovation, we aim to further elevate Hyster's business in the key markets of Thailand, Malaysia, Indonesia, and South Korea, solidifying our position as a leader in materials handling solutions for sea ports and terminals in Asia."

For more information about Hyster-Yale's and PortxGroup's collaboration, please visit <https://portxgroup.com/hyster/>. ■

SIEMENS ACQUIRES HELIOX, SPECIALIST IN EBUS AND ETRUCK FAST CHARGING SOLUTIONS

- *Heliox expands Siemens eMobility's offering for the growing eBus and eTruck charging market, and for depot and fleet solutions*
- *Accelerates value creation in Siemens' fast-growing eMobility business*
- *Adds attractive digitalization and software potential*

Zug, Switzerland – Siemens AG has completed the acquisition of Heliox, a technology leader in DC fast charging solutions, serving eBus and eTruck fleets and passenger vehicles. Headquartered in the Netherlands, Heliox employs approximately 330 people.

The acquisition complements Siemens' existing eMobility charging portfolio, adding products and solutions ranging from 40 kilowatts (kW) to megawatt charging solutions for depots and en-route charging. Heliox's portfolio also extends Siemens' market reach, primarily in Europe and North America, while improving capabilities in power electronics. Heliox's mobile, scalable and parallel charging solutions will enable Siemens to serve these markets better.

Matthias Rebellius, CEO of Smart Infrastructure and member of the Managing Board of Siemens AG said: "We are witnessing unparalleled growth in the EV charging infrastructure market. DC fast charging solutions for eBus and eTruck fleets are considered the fastest growing segment here. With the acquisition of Heliox, Siemens eMobility is well-positioned to serve our customers worldwide."



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Designed by vectorjuice / Freepik

Next to DC fast charging solutions, Heliox offers charger monitoring and energy management services. This expands Siemens eMobility's IoT product portfolio and strengthens its digitalization and software offering.

The combination of the two companies' charging portfolios creates a strong offering for eBus and eTruck customers. Heliox is set to benefit from Siemens' industrialization capabilities, global sales network and infrastructure, enabling it to scale up its production and meet increasing customer demand.

Siemens eMobility is part of Siemens Smart Infrastructure. It offers IoT-enabled hardware, software and services for AC and DC charging from 11 kW to 1 megawatt for a broad range of applications. Siemens acquired Heliox from private equity firm Waterland and an entity owned by a group of employees and individual shareholders.

For more information, please visit www.siemens.com. ■

VIVOTEK LAUNCHES VORTEX CONNECT, EMPOWERING ENTERPRISE CLOUD TRANSITION

With the increasing trend of labor shortages, recognizing the operational efficiency brought about by cloud-based security solutions, VIVOTEK offers a comprehensive cloud service to enhance operational management efficiency for enterprises.

VIVOTEK (3454-TW), the global leading IP surveillance solution provider, introduces its cloud-based security service VORTEX, emphasizing a smarter and easier approach. Now featuring the latest addition – VORTEX Connect, this new feature is integrated into VIVOTEK's latest generation Network Video Recorders (NVRs), allowing users to seamlessly connect to NVRs and simultaneously utilize VORTEX cloud services in an intuitive manner. Users can upgrade to the cloud without replacing existing network cameras, meeting security needs anytime, anywhere, and on any device.

With features such as high-resolution imaging, advanced AI analysis, and seamless remote management, VORTEX facilitates enterprises in swiftly transitioning to operational cloud solutions, while also expanding rapidly in the North American market. According to a video surveillance 2023 report[Video Surveillance & Analytics Database Report – 2023 Analysis: Within the VSaaS category, a revenue growth of 28.2% is expected in 2023, indicating strong market potential and increasing demand for cloud-based security solutions. Cloud-based software Five-year trend (2022–27) CAGR 22%.], the global revenue for cloud software-based services has experienced a compound annual growth rate (CAGR) of 22% over the past five years. The overall revenue for video surveillance as a service (VSaaS) is estimated to grow by over 28% in 2023, indicating significant market potential for cloud-based security solutions.

To seize market opportunities, VIVOTEK is gearing up to launch VORTEX Connect PRO in the future,



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significantly increasing the device connection limit. With a capacity to allocate up to 1,000 users within the organization, VORTEX Connect PRO provides individual privacy access and camera group assignment permissions. Users can conveniently revoke or modify existing settings, enhancing resource allocation efficiency and management flexibility. Important event segments can be securely archived and backed up in the cloud, mitigating risks associated with hard drive failures, deletion due to insufficient recording space, or overwriting. Additionally, the system ensures seamless updates to device firmware, minimizing user maintenance time and enhancing overall management capabilities. Open for enterprise BETA version starting today, with subscription services available soon.

VORTEX Connect is compatible

with VIVOTEK's new series of NVRs, including ND9326P, ND9426P, ND9542P and ND9442P. These NVRs can provide power and network transmission without the need for deploying Power over Ethernet (PoE) switches. They come with built-in TrendMicro antivirus software, upgrading the confidentiality and security of image transmission and access with AES 256 and TLS 1.2 cybersecurity protection. The NVRs also support the connection of over 30,000 ONVIF Profile S network cameras available in the market, addressing the challenges of complex network configurations, and optimizing the overall cost structure for users. This significantly enhances user convenience and usability.

For more information, please visit <https://www.vortexcloud.com/en-international/pages/network-video-recorder>. ■

3D X-RAY TECHNOLOGY TO HELP SPEED PASSENGERS SPEED THROUGH SECURITY AT FUKUOKA INTERNATIONAL AIRPORT

New state-of-the-art technology, supplied by Smiths Detection, will detect potential threats in baggage without the need to remove electrical items and liquids.

Tokyo, Japan – Smiths Detection, a global leader in threat detection and security screening technologies, today announces that it will supply Fukuoka International Airport Co., Ltd with 12 HI-SCAN 6040 CTiX X-ray scanners and 12 automatic tray return systems, the iLane A20. The technology will be in use at the North and South Domestic Checkpoints.

The HI-SCAN 6040 CTiX, a computed tomography (CT) X-ray scanner produces high resolution volumetric 3D images for quicker and deeper baggage assessment and low false alarm rates. Implementation of the new scanner will allow passengers to leave their liquids and electronics in their hand luggage, helping to speed up security screening, without compromising on safety. The iLane A20, a next-generation fully automated tray return system, delivers high throughput and efficiency, streamlining the screening process and eliminating passenger bottlenecks.

42 units of Smiths Detection's industry-leading 3D X-ray scanners



are already in use in Japan, as well as 143 iLane tray return systems. The HI-SCAN 6040 CTiX and iLane A20 are expected to be able to scan more than 250 pax/hr, approximately 1.5 times the previous throughput of around 170 pax/hr.

Smiths Detection's North & South Asia Market Head, Aurelien Guilbert said: "We're thrilled to be working at Fukuoka International Airport to enhance security and improve the overall passenger experience by allowing passengers to leave large electronics and liquids in their carry-

on bags. Already in use across the country, the H-SCAN 6040 CTiX is the leading checkpoint CT X-ray in Japan".

Smiths Detection's technology will be installed by the end of March 2024. Fukuoka Airport domestic checkpoint will become the third airport in Japan to harness the power of Smiths Detection's 3D X-ray screening technology, alongside Haneda Airport domestic checkpoint and Naha Airport domestic checkpoint.

For more information, please visit www.smithsdetection.com. ■



SIEMENS SELECTED FOR MULTI-PHASE DECARBONIZATION PROGRAM AT HEINEKEN PRODUCTION SITES

- Decarbonization program targets significant energy savings and 50 percent CO₂ reduction at over 15 HEINEKEN breweries and malt houses worldwide by 2025
- Supports HEINEKEN's global Net Zero Production roadmap, which aims to reach net zero in Scope 1 and 2 by 2030 and net zero across the full value chain by 2040
- Five-year performance and monitoring service contract from Siemens to ensure ongoing project optimization
- Scalable solution designed using an energy digital twin will optimize heating and cooling requirements in production and packaging processes

Zug, Switzerland – HEINEKEN, the world's most international brewer, has selected Siemens as a partner for its global Net Zero Production roadmap, as part of HEINEKEN's ambitions to reach net zero in Scopes 1 and 2 across all production sites by 2030.*

Siemens and HEINEKEN will work together on a long-term decarbonization program which will see Siemens implementing solutions and services from its Siemens Xcelerator portfolio, to reduce energy usage at more than 15 HEINEKEN beer and malt production sites, spanning facilities across Asia-Pacific, the Americas and Europe. Additional sites will be added in a second phase.

HEINEKEN and Siemens collaborated on an initial project of consulting, auditing, and advisory services, using an energy digital twin to simulate and analyze a typical HEINEKEN brewery in the virtual world, identifying where significant energy savings could be made. The simulation showed approximately 70 percent of energy use was linked to the generation of heating and cooling necessary for the brewing process. By optimizing and monitoring these cooling and heating systems through an end-to-end program, Siemens estimates energy savings of between 15-20 percent at each site, and an average CO₂ reduction of 50 percent at each site.

Dolf van den Brink, HEINEKEN CEO and Chairman of the Executive Board, said: "As we continue to focus on the delivery of our journey to reach



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net zero in Scope 1 and 2, we know that we must make many bold and ambitious moves to decarbonize our global operations. Undertaking these challenges with partners like Siemens allows us to bring in technical expertise and industry knowledge to innovate quickly and at scale. We are excited to continue on this journey with partners who are committed to pioneer and localize next-generation solutions, to help us reach our net zero goals."

To achieve targeted reductions in energy usage and CO₂, Siemens will deploy an end-to-end program of solutions and services which are scalable and replicable across HEINEKEN's global production sites. Using operational data in combination with the energy digital twin at each site, Siemens will design, engineer and implement a system to electrify the production of heat and cooling using

heat pumps powered by renewable energy, reducing reliance on steam generated by fossil fuels. The system will be monitored, controlled and optimized using Siemens Cooling Plant Optimization algorithms, which uses built-in analytics to analyze data from the plant to reduce energy costs and ensure operational efficiency.

"We're proud to be a partner to HEINEKEN's Net Zero roadmap; an ambitious journey to reach net zero by 2040," said Matthias Rebellius, Managing Board Member of Siemens AG and CEO of Smart Infrastructure. "Working with HEINEKEN as a partner in this way demonstrates a thoroughly modern approach to data-driven decarbonization. By collaborating on an end-to-end program, we're able to combine hardware, software and analytics to predict and deliver the long-term results which are now crucial to every industry."

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As part of the long-term partnership agreement, Siemens will also deliver a five-year performance and monitoring contract, connecting the breweries to Siemens systems which use data services to remotely monitor the production sites, ensuring the best solution is operated at all times.

From barley to bar, HEINEKEN continues to focus on concrete actions to reduce its carbon emissions, working closely with customers, consumers, and

suppliers. At the end of 2022, HEINEKEN had already reduced total carbon emissions on Scopes 1 and 2 by 18 percent since 2018. To achieve this, in 2022 it increased its renewable electricity consumption to 58 percent and is currently investing in renewable heat solutions for its breweries.

In 2023 HEINEKEN's net zero and FLAG (Forest, Land and Agriculture)* targets were approved by the Science Based Targets initiative (SBTi), becoming the first global

brewer to pass this sustainability milestone. For complete details on HEINEKEN's science-based targets, see SBTi's website.

*Defined by the Science Based Targets initiative (SBTi) as a minimum of 90% emissions reductions. The 10% residual emissions that cannot be eliminated otherwise must be covered with permanent carbon removal and storage solutions.

For more information, please visit www.siemens.com. ■

MODERN PUBLIC ADDRESS AND VOICE ALARM SYSTEM FROM BOSCH SPEEDS UP BOARDING AT CHOPIN AIRPORT IN WARSAW

Chopin Airport in Warsaw, named after the famous Polish composer Frédéric Chopin, has recently undergone an impressive improvement in acoustic technology. The installation of an extensive Praesensa system from Bosch Building Technologies marks a turning point in the way information and music is transmitted and played in the airport building. The new system features advanced loudspeaker technology and a high level of automation, providing outstanding sound quality and clear, crisp voice transmission, which is of great benefit to the operator, passengers and ground staff.

Innovative technology for precise communication
The new passenger information system is based on the Praesensa solution from Bosch. It uses LS1-OC100E-1 hemi-directional ceiling loudspeakers and LC1-UM12E8 built-in loudspeakers, which ensure that passengers at every gate are addressed with pinpoint accuracy and excellent intelligibility. By integrating a text-to-speech solution from a third-party provider, the flight number, airline, destination and boarding information are automatically retrieved from the central computer at Chopin Airport and reproduced in synthesized voice information. These are output in Polish and English as well as other available languages, achieving a previously unattainable sound quality. The result is a significant reduction in the workload of airport staff.

Overcoming old challenges

The modernization of the public address and voice alerting system was urgently needed, as the old analogue system had reached its limits. Information was often lost in an indistinct fog of sound, and manual announcements of



boarding information were both time-consuming and labor-intensive.

Enthusiasm for efficiency and quality

The integration of the new system into the airport's existing infrastructure went smoothly, which significantly shortened the installation time. The automation and increased efficiency provided by the Praesensa system are appreciated by both staff and passengers alike. The scalability of the system ensures its suitability for future developments and requirements.

"Chopin Airport now has a state-of-the-art public address system. The fact we could build on the existing IP infrastructure significantly reduced the amount of time for the installation work," says Józef Bycul, project manager at Bosch Building Technologies.

For more information, please visit www.boschbuildingsolutions.com. ■

TELEDYNE FLIR IIS ANNOUNCES A NEW MODULAR AND COMPACT USB3 MACHINE VISION CAMERA SERIES

The Dragonfly S series combines Teledyne's expertise in USB and experience delivering embedded camera solutions for industries ranging from life science instrumentation to factory automation.

Richmond, British Columbia – Teledyne FLIR IIS (formerly Point Grey Research), industry pioneer of the area scan USB concept, is pleased to introduce the new Dragonfly® S USB3 camera series to its machine vision portfolio. The new series is a result of Teledyne's constant commitment to set and enhance vision industry standards for customer success. It addresses the market's essential need for a modular, compact, and lightweight camera for at-scale manufacturing, volume-based applications, and multi-camera systems.

Dragonfly S has a modular design to accelerate the inception stage of imaging application development for a diverse range of industrial and non-industrial segments. "This is a first-of-its-kind practical option for factory automation and embedded vision-based device manufacturers," said Sadiq Panjwani, General Manager at Teledyne FLIR IIS. "The modular concept of the new camera empowers engineers to quickly test, develop, and deliver competitive vision products to market at scale."

The camera series is ideal for embedded or handheld device applications such as biometrics kiosk solutions, ophthalmoscopy, 3D scanning, automated optical inspection, and more. It is available in multiple configurations, from board-level to a fully-enclosed module in a ruggedized aluminum case. The USB connector is offered in a rear or side orientation with screw-in locking mechanism. These modular options provide maximum flexibility and durability, allowing



seamless integration in tight spaces. The cased models are Class B EMC safety compliant as mitigating electromagnetic interference is critical for healthcare and residential applications. Additionally, an onboard image buffer ensures that every captured image frame is reliably transferred to the host CPU.

The first of its series Dragonfly S is now available for pre-order. Additional model releases from VGA to 8MP are planned for 2024.

For more information, visit www.teledynelflir.com/mv. ■

VUWALL WILL SHOWCASE ITS PAK KVM ALONGSIDE THE VUSTREAM 350 IP KVM ENCODER, AND DEBUT TRX VERSION 3.6 WITH ENHANCED PAK KVM FUNCTIONALITY AND SECURITY UPGRADES

Montreal – VuWall, a technology leader in video wall control systems and unified visualization solutions, today announced it will demonstrate its IP KVM video wall solutions at ISE 2024 in Barcelona, stand 5D700. Visitors will see VuWall's PAK KVM, a unique and powerful feature, now included in the company's flagship TRx centralized video wall

management software platform. In addition, VuWall will unveil the release of version 3.6 of TRx, which brings advanced KVM and video wall management features, enhanced scripting, and security enhancements to the renowned software platform.

"VuWall's commitment to robust video wall functionality and

security will take center stage at ISE 2024," said Mark Schmidt, Chief Technology Officer at VuWall. "Our advanced IP KVM and security features offer unparalleled management and protection for the most mission-critical and highly sensitive applications in control room environments. With KVM functionality on the PAK, VuWall

provides unprecedented control, enhancing collaboration and instilling confidence in the management of critical data. These solutions provide the next-gen features that control rooms require today.”

At ISE 2024, VuWall will show how PAK KVM enhances its PAK nodes with KVM functionality. Within VuWall’s award-winning TRx video wall management platform, PAK KVM provides not only AV-over-IP distribution and advanced multi-video wall management, but also seamless KVM operations. PAK KVM allows operators to seamlessly control local and remote IP sources using a keyboard and mouse on their personal video wall, on local displays, or on the main video wall, which are driven by VuWall’s award-winning PAK, a scalable, networked, multiview video wall and KVM node. This cost-effective and compact appliance simplifies video wall deployments, reducing project risk and offering improved reliability for integrators and end users.

As part of VuWall’s ecosystem, PAK is managed by the TRx centralized management software platform, now available in version 3.6, being shown for the first time at ISE. With TRx, users can configure, manage, and distribute virtually any source type to any display with an easy-to-use



drag-and-drop interface. TRx ensures interoperability in a multi-brand AV-over-IP infrastructure and enables users to easily create customized control panels to run in a browser, on a tablet, or on a mobile device without any programming using its built-in control panel designer. TRx’s latest KVM capabilities are ideal for multiroom visualization, situational awareness, control rooms, and remote operator environments. Also in the VuWall stand will be the VuStream 350, a secure and fanless IP KVM encoder that delivers high-quality video up to 4K over standard Gigabit Ethernet at low bitrates and ultra-low latency. VuStream 350 transmits video and audio over HDMI,

as well as keyboard and mouse on an encrypted AES-256 signal. It is fully compatible with TRx and PAK video wall and KVM nodes, allowing operator workstations to control the sources connected to VuStream 350 at low latency, making it imperceptible to the user that they are controlling a remote device.

VuWall Unveiling Latest Advancements in Video Wall and KVM Solutions at ISE 2024
VuWall will highlight its successful completion of the System and Organization Controls (SOC) 2 Type I attestation for security. SOC 2 is a framework for managing and securing data developed that defines criteria for managing and protecting customer data based on five trust service criteria: security, availability, processing integrity, confidentiality, and privacy. SOC 2 compliance is crucial for technology organizations to demonstrate their commitment to safeguarding the privacy and security of the information they handle, providing assurance to their clients’ and stakeholders’ effectiveness of their products, controls, and processes. This achievement reflects VuWall’s commitment to the highest levels of data, product, and internal process security.



VuWall Unveiling Latest Advancements in Video Wall and KVM Solutions at ISE 2024

For more information, visit www.vuwall.com. ■

GALLAGHER SECURITY'S COMMITMENT TO DATA PROTECTION ACKNOWLEDGED WITH SOC2 TYPE 2 RECERTIFICATION

Both appointed as executive corporate officers and legal representatives of the company.



Global security leader Gallagher has achieved System and Organization Controls (SOC2 Type 2) recertification after a fresh audit of the cloud-hosted services of their award-winning integrated security solution – Command Centre. The recertification was achieved on December 21, 2023.

The voluntary compliance standard for service organizations is maintained by the American Institute of Certified Public Accountants (AICPA). It provides a framework to annually assess an organization's internal controls for information security and privacy.

Mark Junge, Chief Executive of Gallagher Security, says that the level of transparency and confidence an external audit of this scale provides is critical to security customers: "In 2023, there were over 800 publicly disclosed global security incidents resulting in an estimated 4.5 billion breached records (Ford, 2023; Irwin 2023). Our existing customers and those weighing up the decision to partner with us need assurance that our products and the business systems that sit behind them are robust. Continued SOC2 Type 2 certification provides just that."

During the audit process, the cloud-hosted services of Gallagher's Command Centre solution were examined

by an external third party to ensure information security processes, policies and procedures complied with the stringent AICPA trust principles.

"The SOC2 Type 2 report verifies the effectiveness of our system design and operating effectiveness over time," says Mark. "It is hugely important for us to stay ahead of the curve and provide this level of confidence in our security solutions."

In addition to the SOC2 Type 2 accreditation, Gallagher Security maintains a comprehensive suite of standards and certifications, including ISO27001, CAPSS 2021, and EN50131-4.

With over 20,000 security customers worldwide, Gallagher Solutions is trusted to simplify life on campus within the education sector, keep staff and patients safe in healthcare, ensure the highest security requirements are met for government sites in the Five Eyes alliance, safeguard critical infrastructure within the utilities industry, and ensure uninterrupted movement for transport and logistics.

For more information, please visit security.gallagher.com. ■

MEDIA COMMENTARY FOR DATA PRIVACY DAY

Attributed to David Sajoto, Regional Vice President, Asia Pacific & Japan.

The cybersecurity market in the Asia Pacific (APAC) region is billions of dollars strong and growing, thanks to a continually evolving and destructive threat landscape. This underscores the crucial responsibility organizations have in safeguarding sensitive information and serves as a reminder of the challenges involved in maintaining data privacy. However, with the right awareness, training and security measures in place, not to mention advanced attack signal intelligence powered by AI, businesses can reclaim the certainty that their data is protected.

Last year saw privacy laws grow significantly in 2023, by as much as 25% from 2021. Countries throughout the region either adopted or are in the process of implementing comprehensive privacy laws for the first time, with more mature markets aligning laws closely with the likes of Europe to strengthen defense measures. Breach notification requirements, data privacy offers and data localization requirements are increasingly becoming the norm.

Despite these efforts, unwelcome breaches made headlines. Throughout APAC we heard stories of customer



information leaks, citizen details being sold online, patient data being stolen and abused, services being corrupted and taken down, and ransomware attacks threatening protected data to be released unless hefty sums were paid out.

As we strive to make the world a safer and fairer place, companies have a responsibility to their customers, partners and end users to implement the right practices that will ensure

their privacy and data are protected.

That brings us into 2024. Data Privacy Day presents an excellent opportunity to have difficult and important conversations about how we can better protect our people – both staff and customers – and the company name. Organizations must invest in the right solutions that are geared towards both prevention and detection, leveraging advanced technologies such as AI to extend attack signal intelligence and support security teams.

As attacks become more intelligent and powered by the likes of GenAI, businesses will face heightened expectations to demonstrate their commitment to implementing comprehensive measures aimed at safeguarding data. Technology decision-makers must reflect on what has worked and what hasn't, adopting an approach that effectively stops and catches attacks before it's too late.

For more information, please visit www.hidglobal.com. ■



MKS INSTRUMENTS SHOWCASES CUSTOMER-FOCUSED PHOTONICS INNOVATIONS AT SPIE'S PHOTONICS WEST 2024

MKS' market-leading brands – Newport™, Ophir®, and Spectra-Physics® – continue commitment to innovation with new products.

Andover, MA – MKS Instruments, Inc. (NASDAQ: MKSI), a global provider of technologies that transform our world, is committed to developing, delivering, and scaling innovative, customer-focused products and services for the Photonics Industry. The MKS brands of the Photonics Solutions Division – Newport™, Ophir®, and Spectra-Physics® – have been a formidable market-leading force in the industry for decades and have had a constant presence at the SPIE Photonics West conference since its inception in 1995.

At Photonics West 2024, San Francisco, CA, January 30 – February 1, 2024, MKS will highlight some of its new products in Booth 927:

- Spectra-Physics Talon® Ace™ UV100 laser, a powerful pulsed nanosecond laser that delivers an industry-leading >100 W UV power with TimeShift™
- Spectra-Physics IceFyre® FS IR200 laser, an industrial femtosecond laser offering >200 W power in the infrared (IR) for high-quality, high-throughput micromachining.
- Spectra-Physics Vanguard™ One™ UV125 laser, a compact, air-cooled, low-noise UV laser for bio-instrumentation and metrology applications.
- Spectra-Physics Spitfire® Ace CEP6™ technology, the most advanced carrier-envelope phase (CEP) stabilization capability, delivers record-low CEP noise for attosecond science.
- Newport Replicated Freeform Mirrors, a non-rotationally symmetric reflective mirror platform for use in advanced optical systems to remove the optical design constraint of rotational symmetry enabling

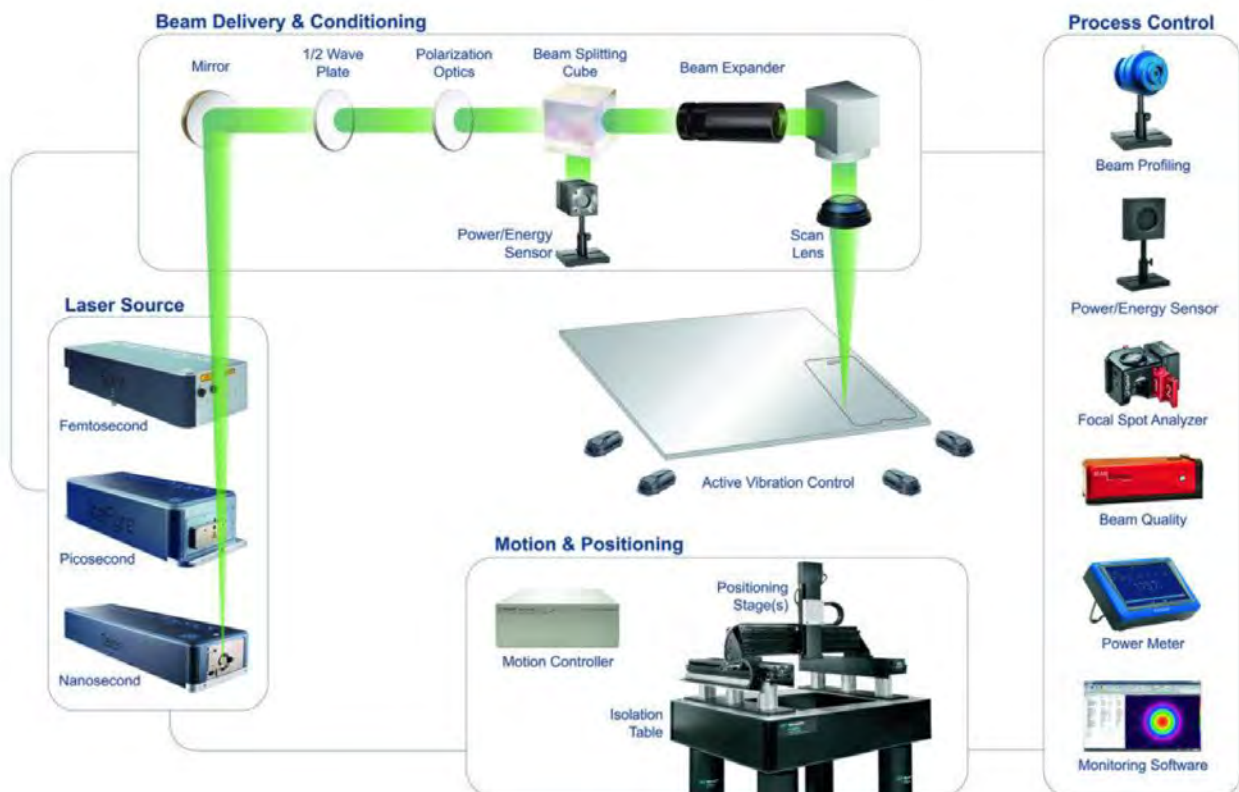


Figure 1. Newport, Ophir, and Spectra-Physics are part of the MKS Instruments strategy to Surround the Workpiece®, an integrated system that incorporates product design and development; system-level integration; research and development; system, subsystem, and component selection; and maintenance, repair, and calibration services for laser-based guidance and control of manufacturing processes.

optical designers to increase the efficiency and precision of optical systems.

- Newport 819-SL-1.5-800PS and 819-IG-1.5-800PS, 1.5-inch, high-speed response, multi-functional integrating spheres; multiple measurement capabilities in a single integrating sphere device.
- Newport 818-RAD-UVA Irradiance and Dosage Sensor, a sensor with a flat spectral response that allows measurement of narrowband and broadband sources (LEDs, lasers) in the spectral range without the need to know the exact wavelength.
- Newport 845-PE-RS Virtual Optical Power and Energy Meter provides easy integration into automation systems (e.g. PLC) using RS-232. It also turns a PC or laptop into a full-fledged Newport laser power and energy meter.
- Ophir BeamSquared® SP204S M2 Propagation Analyzer, a compact and fully automated tool for measuring the propagation characteristics of 266 to 1100 nm CW and pulsed laser systems with increased sensitivity and resolution in the NIR region.
- Ophir SP203P Beam Analysis Camera, a phosphor-coated CMOS sensor for measuring wavelengths between 1440 – 1605 nm.

- Ophir BeamWatch® Plus, a non-contact, high-power beam profiler that measures focus shift, M2, focus spot size down to 45µm, and position of industrial lasers operating in the VIS and NIR range.
- Ophir BeamWatch 130, a non-contact, high-power beam profiler that measures focus shift, M2, focus spot size down to 130µm, and position of industrial lasers operating in NIR range.
- Ophir BeamPeek™ Software for Field Technicians, easy-to-use laser beam analysis for optimizing Additive Manufacturing processes.
- Ophir StarViewer iOS App for Ariel stand-alone sensor for measurement of high power lasers.

“We are pleased to be at the forefront of technological advances that are increasing the pace of innovation in the photonics industry,” stated Dr. Mark Gitin, Executive Vice President & General Manager, Photonics Solutions Division, MKS Instruments. “Our new high-power nanosecond UV and femtosecond lasers lead the industry in capability and cost-performance and are great examples of the innovation we are bringing to the market.”

For more information, please visit www.mks.com. ■

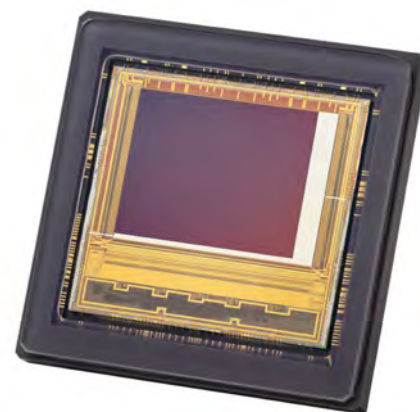
TELEDYNE E2V ANNOUNCES NEXT-GENERATION HIGH-PERFORMANCE CMOS IMAGE SENSORS FOR EXTREME LOW LIGHT CONDITIONS

Grenoble, France – Teledyne e2v, a Teledyne Technologies company and global innovator of imaging solutions, announces OnyxMax™, the next generation of its popular Onyx 1.3M low light CMOS image sensor. This new sensor has been designed for extremely low light conditions, down to 1 mLux. The combination of sensitivity and image resolution increases its range, allowing even small objects to be detected in harsh conditions. This makes OnyxMax ideal for a wide range of applications, including science, defense, traffic cameras, broadcast, surveillance, border control and astronomy.

OnyxMax features 1.3 Megapixels (1,280 x 1,024) and is available in monochrome, as standard, and with CFA arrangements available on request. It has a 10 x 10 µm pixel, designed with Teledyne’s new cutting

edge HiRho™ proprietary technology, which enables outstanding Near Infrared (NIR) sensitivity and spatial resolution with Quantum Efficiency (QE) of 58% and MTF of 63% at 850nm wavelength. OnyxMax also provides an SNR of 10 dB at less than 2 mLux and at 60 frames per second and operates in rolling and global shutter modes, providing 75 dB of linear dynamic range. It also has a patented on-chip HDR mode which is capable of handling scene dynamics up to 100 dB.

Ariane Le Bon, Marketing Manager for Low Noise Imaging, at Teledyne e2v said, “We are very proud to release OnyxMax, which has been specifically designed to deliver high performance in challenging low light conditions. This sensor performs significantly better than general-purpose image sensors that generally



lose contrast in the NIR. OnyxMax performs impressively in these conditions and has been very well received by defense, commercial, and scientific markets.”

For more information, please visit imaging.teledyne-e2v.com. ■

DAHUA HELPS CONSERVE SEA TURTLES USING ECO-FRIENDLY CAMERAS

Organisations choosing to expand with Armis as they seek one platform for all asset intelligence and security needs.



Sea turtles are ancient sea creatures that have been roaming the earth for more than 100 million years. They are unique aquatic animals that play a vital role in maintaining a healthy ecosystem in our oceans. They help conserve seagrass beds and coral reefs, manage the jellyfish population in the ocean, and transport important nutrients to other living organisms under the sea. The delicate dance of sea turtles as they nest along our coastlines is a spectacle that resonates with many.

Unfortunately, the future of sea turtles is hanging in the balance due to irresponsible human activities and lifestyles, including excessive use of artificial lights on beaches where sea turtles lay their precious eggs. Artificial lights discourage nesting female sea turtles from coming onto the beach to lay their eggs. It also disorients the hatchlings and disrupts their ability to find the sea from the beach. Keeping nesting beaches dark and safe for sea turtles has been a prevailing challenge around the world.

To address this issue, Dahua developed a customized firmware for its select cameras (e.g. Vari-focal TiOC: N43BX8Z/N83BX8Z; Fixed TiOC: N83BU82-B) to enable the white-light illuminators to be turned on or off by month, avoiding disturbance of sea turtles and allowing environmentalists, researchers, and beach authorities to

align camera operations with the nesting season of these sea creatures. Through this solution, users can customized the illuminator schedule each month, ensuring that artificial light minimally interferes with nesting turtles and their hatchlings. It redefines coastal conservation by providing technology that harmonizes security with nature. These intelligent cameras offer a balanced approach, providing security for beachgoers and properties while preserving the darkness necessary for the nesting sea turtles.

As world-leading video-centric AIoT solution and service provider, Dahua constantly adheres to its global commitment to help conserve the environment and natural resources. The company provides products and solutions that can flexibly adapt to various locations. Thanks to Dahua's customized firmware on select Dahua cameras, beaches can remain dark and without distraction from artificial lighting during sea turtles' nesting season. It enables installers and end users to embrace Dahua's wildlife-friendly technology and contribute to the global effort of preserving these ancient mariners. Together, we can guarantee that our coastal regions remain sanctuaries for nesting sea turtles, proactively preserving the beauty of nature for everyone.

For more information, please visit www.dahuatech.com. ■

HID AND OLEA KIOSKS EMPOWER PEOPLE WITH SECURE AND CONVENIENT SELF-SERVICE ACCESS

Advanced AI-driven facial recognition meets hyper-modular kiosk design to enhance the user check-in/authentication experience across industries.

Singapore – HID, the worldwide leader in trusted identity solutions and Olea Kiosks®, a visionary provider of self-service kiosk solutions, today announced a new collaborative engagement that revolutionizes the user experience when it comes to access control and user authentication across a range of applications.

Industries from healthcare, hospitality and retail to banking, government, transportation and beyond are primed to empower people with unsurpassed levels of security and user convenience when it comes to countless check-in and access scenarios. The HID U.ARE.U™ Camera Identification System – featuring remarkable facial recognition technology (FRT) – can now be incorporated into the Olea HYPER MODULAR™ Kiosk to address the rising demand for flexible, customisable ID authentication and verification across various vertical settings.

Facial recognition technology continues to gain traction based on its unique combination of high security and user convenience. Paired with the extremely flexible Olea kiosk, HID's AI-powered U.ARE.U Camera Identification System is an ideal solution for applications needing to handle high throughput. HID FRT is:

- **Fast and Accurate:** On-the-spot verification authenticates and validates an individual's identity in seconds, reducing wait time in line.
- **Easy to Use:** One look is all that is required to securely capture a facial image for frictionless identity verification.
- **Secure:** Biometric traits provide irrefutable proof of identity and

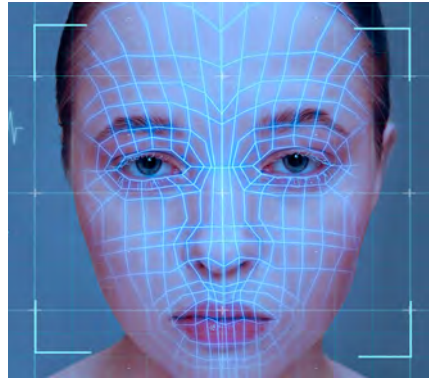


Image by Freepik

- presence to prevent fraud.
- **Convenient:** One's face is now their ID card, pin and password, so there is nothing to carry, forget, lose or have stolen.
- **No Human Intervention:** This seamless technology requires no dedicated staff to check IDs.
- **Contactless and Hygienic:** Facial recognition offers a touchless way to authenticate individuals' identities, minimizing exposure to health risks by reducing shared touchpoints.

Olea selected the HID U.ARE.U Camera Identification System for its many notable features, including:

- **Top NIST Ranking for Matching Performance & Accuracy**
- **Ethically Trained with AI to Reduce Matching Bias**
- **Exceptional 'In-the-Wild' Recognition** (precise capture and authentication regardless of variances in lighting, backgrounds, pose, expression, etc.)
- **Extraordinary Presentation Attack Detection (PAD) Against Spoofs**
- **Stellar Security & Privacy with On-Device (Edge) Biometric Processing**
- **Easy to Configure** (leading to faster deployment and faster ROI)

Olea developed the HYPER MODULAR kiosk in response to market demands for flexible, customisable kiosks for the security and access control space. In addition to housing HID's leading facial recognition camera, Olea's kiosk design can also accommodate fingerprint scanners, barcode scanners, ticket and ID document readers, RFID readers, card printers, and other HID offerings within its HYPER MODULAR footprint.

Bringing together HID facial recognition with Olea kiosks supports myriad use cases for reliable self-service check-in and authentication. Just a sampling of applications include:

- **Retail & Hospitality:** Hotel self-check-in, self-checkout/face pay, ticketing at theme parks and VIP customer identification
- **Banking:** ATM verification and VIP customer identification
- **Healthcare:** Patient check-in and registration, manage personal data, scan and record insurance/ID cards, telemedicine services and payment collection
- **Airport and Border Crossing:** Passenger self-check-in, bag tag printing and bag drop, VIP lounge access and security and immigration checkpoints

The HID-Olea Kiosks are available now. To learn more about HID's facial recognition technology and Olea Kiosks, visit our solution pages:

- **HID AI-powered facial recognition**
- **HID U.ARE.U Camera Identification System**
- **Olea HYPER MODULAR Kiosk**

For more information, please visit www.hidglobal.com. ■

Sustainability and Security: **Best Ways to Ensure Both**



The security industry relies on new technology and advanced devices such as high-definition cameras and quick X-ray scanning. These electronics are made using high-tech semiconductors. An intricate network online connects these devices to process the vast data.

Over the years, major corporations and small businesses have been using security measures alike to ensure safety. Due to this, we see a rise in electronic installation and consumption. With great demand, the increase in waste material and carbon footprint has made some sustainable changes to be necessary.

This is where security and sustainability have to co-exist. Only then can we benefit from having security and safeguarding the environment. Environmental Protection Agency and United Nations sustainability goals support development considering the needs of future generations.

Apart from this, being a responsible producer and consumer adds to the sustainability effort. We'll discuss the connected ecosystem and the next steps to have sustainable access control solutions.



Need for Sustainability in Security

The high energy consumption and life cycle of security products impact the environment in more ways than we may assume. There is a growing concern regarding their production, raw materials used, shipping, and hazardous elements.

This leads to the fact that the security industry needs to keep in mind the impact it has on the environment.





Electronic waste is a huge concern as it adds to landfills without being recycled. As the demand increases, the byproducts will rise. So, the question of their safe discarding arises. The manufacturers, distributors, and end users play a collective role in ensuring sustainability and security.

Currently, the security devices and software stakeholders are trying to achieve sustainability. UN sustainable goals, anti-corruption laws, and environmental protection rules have nudged the companies in the right direction.

Following sustainability programs strictly leads to better work ethics, safe workspaces, and guilt-free products. Considering the UN's 2030 Agenda and its 17 Global Sustainable Development Goals (SDGs), it is important for all companies to have security as well as sustainability. So, the goal is to be sustainably innovative when becoming technologically advanced.

Are production companies using energy efficiently? Is there a protocol in place to discard waste? Are the human and labor laws being followed? How much pollution are companies creating and treating before disposal? The need for sustainability keeps the companies in check about their upstream and downstream use of resources.

Electronic waste is a huge concern as it adds to landfills without being recycled. As the demand increases, the byproducts will rise. So, the question of their safe discarding arises.

Sticking to sustainable work practices benefits the environment and the people. Overall, advancements in security devices can be made without affecting the future of the industry.

The Carbon Footprint of the Security Industry

Electronic devices and computer systems needed to process the data generate a huge carbon footprint.



Adding green energy sources, solar lights, and smart sensors are ways to use the resources optimally.

Packaging

Packaging with recycled boxes, less plastic, and use of biodegradable materials will reduce waste. The accessories can be added to one single package instead of being packed and sent in different boxes. Another idea is not to add extra accessories if not needed by the customer. They may always opt to add these later. Many consumers will feel eco-conscious if their products come in recyclable packages without any fancy plastics/labels. Moreover, as a brand, you can encourage them to recycle/reuse.

Shipping

The shipping of security products such as sensors, cameras, and scanners requires several resources. After being packaged carefully in protective boxes, the products have to be shipped to transportation to reach the end users.

This may take a toll on the environment as it generates waste. The best idea is to use recyclable packaging materials. Another great tip is to reduce at-home visits and installation unless requested. If someone has placed orders for several items, make sure to send them in one shipping order to decrease multiple visits.

- The demand for security devices is increasing, leading to a high growth rate.
- These devices work using the internet, adding more pressure on the system.
- Several applications and software analyze the data collected in cameras and sensors.
- Production, packaging, and delivery add to the carbon footprint.
- The use of precious metals in making such devices poses a risk to naturally occurring elements.
- Many devices may use less environmentally friendly materials such as plastic and polymers.

Following international guidelines such as ISO 14000 is a way to ensure sustainable production. These guidelines offer blueprints to discard hazardous waste material or avoid such materials in production. Choosing an environment-friendly manufacturing process and suppliers are two easy ways to be more sustainable.

Infrastructure

Office buildings or manufacturing units play a vital role in emissions. A sustainable workspace that is certified by Leadership in Energy and Environmental Design is a step towards being eco-conscious.

Scope of Sustainability

Sustainability can be achieved in the following areas:

Production

The manufacturing process of the security devices may impact the environment due to the raw materials used and their procurement. Instead of choosing far-away production factories, in-house manufacturing will be more affordable.

Packaging with recycled boxes, less plastic, and use of biodegradable materials will reduce waste. The accessories can be added to one single package instead of being packed and sent in different boxes. Another idea is not to add extra accessories if not needed by the customer.



Image by rawpixel.com on Freepik

Use of technology

An audit can be done to see the gaps in technology and where new ones can be added. You may employ AI tools, smart IoT devices, and solar panels to ensure the best use of the resources. Designing smart cameras and sensors that work 24/7 while using less energy can be a step ahead in managing energy consumption.

Waste disposal

Disposing of end waste products in a safe manner is crucial to avoid environmental hazards. Choose to recycle old equipment and discard raw materials correctly instead of dumping it all in the landfill. Add instructions on products for recycling and reusing for consumers to be more sustainable.

Work culture

One aspect of sustainability is the work culture and values of an organization. Companies that follow labor laws and human laws show a positive approach toward sustainability. Moreover, taking the initiative to educate employees

and update their sustainable skills prepares them to use new technology.

In addition, companies may promote environment-friendly organizations. They can partner with such non-profit firms to spread awareness.

Innovative Security and Access Control Solutions

Certain measures can be implemented to ensure security solutions are environment and human-resources friendly.

Use of materials

Avoid raw materials tied to human rights, labor rights violations, and conflicts, given the security industry's reliance on rare earth minerals. For instance, the use of titanium (a rare element) in surveillance can be substituted with other materials. Monitor mining, smelting, and related processes carefully. Promote the use of sustainable raw materials and reduce or eliminate hazardous substances like PVC, BFR, CFR, and

the like.

Moreover, developing solutions that optimize data generation and indirectly decrease power consumption in data transportation, processing, and storage, such as enhanced image compression technologies reducing bandwidth and storage requirements for surveillance video footage, contributes significantly to environmental sustainability.

Security products, often in use for 5-10 years before replacement, demonstrate a notable power consumption contrast between Product A (green) and Product B (inefficient) when performing identical tasks like surveillance cameras or network switches. Lower power consumption in green products and innovations can significantly reduce the carbon footprint.

Using technology that works fossil-free and optimizes work using artificial intelligence and machine

The security solutions can be unified in design. Ask for integration of access control and visitor management systems so that you don't need to install separate devices. A single network system with multiple sensors will use less energy while performing at a high speed. Design provisions can be made by combining video surveillance and intrusion detection into one.

learning can bring a green revolution. Monitoring Co2 emissions in production and supply chains is another great approach.

Designing

Design engineers should keep the sustainability concept in mind. They should come up with ways to optimize the resources and remove design roadblocks. The footprint of the production and working of surveillance devices, sensors, alarms, and access controllers should already be added to the designs.

This way, any redundant accessories and equipment can be removed to ensure the best end product. All the scenarios should be studied to make the products safer when in constant use.

Distribution

Delivery of such products is governed by transportation and warehouses. RFID scanners and sensors can make these warehouses productive. Besides, adding more warehouses across the globe can reach more people by reducing the delivery distance. However, this can only be

done if the pros outnumber the cons.

Less power-driven solutions

Switch to equipment that requires less energy by designing it in more power-efficient ways. This can reduce carbon footprint while also delivering better ROI. Auto start/off sensors and green network switches can make security equipment more sustainable. Make sure the software for analyzing data works using less RAM and GPU.

Custom manufacturing

Connect with custom design teams and OEMs to target your customer's needs. This way, you can design and deliver specific product features. Anything that's not required can be easily skipped. Also, encourage the buyers to opt for sustainable materials in manufacturing, stating their benefits.

Single network systems

The security solutions can be unified in design. Ask for integration of access control and visitor management systems so that you don't need to install separate devices. A single network system with multiple sensors will use less energy while performing at a high speed. Design provisions can be made by combining video surveillance and intrusion detection into one.

Wrapping Up

Sustainability management is a continual process, emphasizing a mindset of long-term value creation over immediate profits. Despite frequently acknowledging that 'we are in this together' and recognizing 'this planet as our only home,' we must question whether we are genuinely contributing to sustainability. The key question is, when will we act if not now?

With the inclusion of sustainability in security devices, organizations can reduce their carbon footprint. Starting from product designing to delivering it to the end users, the goal should be minimal impact on the environment. ■



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Intersec 2024 at a glance



COMELIT SPA

Comelit Group S.p.A. is an industrial company operating on a worldwide scale who designs and manufactures video door entry, anti-intrusion, video surveillance, home automation, fire protection and access control systems, with almost 70 years of experience in the security market.

During INTERSEC 2024, Comelit proudly showed its new PEOPLE door entry monitors: they are robust, innovative, extremely easy to install and even simpler to configure thanks to NFC technology. An incredible advantage, as it allows up to 10 times faster set-up times than traditional configuration. ■



AJAX SYSTEMS INTRODUCES NEW VIDEO PRODUCTS AND GRADE 3 DEVICES

Starting 8 years ago with the conquest of the global intrusion market, Ajax Systems is now expanding horizontally by adding entirely new product verticals to its portfolio. Recently, the company has unveiled whole new CCTV products with a different approach to privacy as well as Grade 3 devices which are poised to reshape industry benchmarks.

Ajax Cameras: Intelligence and privacy built-in

TurretCam, BulletCam, and DomeCam Mini embody signature Ajax design shapes. Each camera model is stuffed with one of four possible configurations: a lens with a viewing angle of 85 or 110 degrees and 3K or 4K resolution. Every Ajax camera easily adapts to changing light with True WDR technology. This smart tech, involving hardware and software, fixes uneven lighting in complex scenes, frame by frame, in real-time.

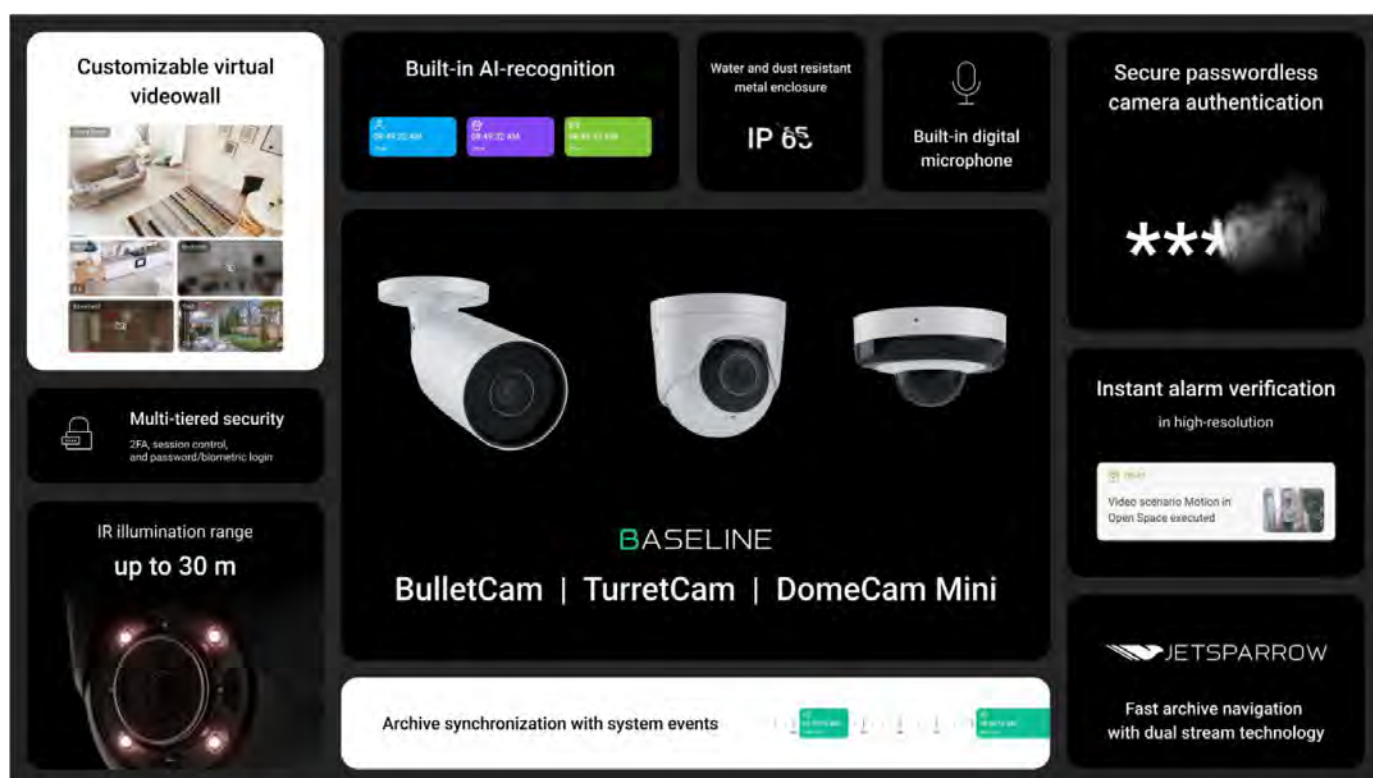


Also, cameras are equipped with a digital microphone. It uses a custom noise cancellation system. Also, all the cameras meet the IP65 protection class, capable of withstanding harsh weather conditions.

Cameras seamlessly utilize the Ajax Cloud to transmit system events. The proprietary JetSparrow technology ensures fast peer-to-peer transmission of video data. With AI

analysis capabilities, these cameras can detect and recognize various object types, such as humans, vehicles, and pets. As a result, the surveillance system is able to record only relevant events, conserving storage space.

Video archive can be optimized even more by setting up the pixel movement detection feature. Specific zones can be defined to ensure



recordings are triggered only when movement occurs in the selected area. To make surveillance precisely selective, it is possible to enable cameras only when the system is armed.

NVR: Guiding video to top-tier security

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

Grade 3: Entering the high-end security market

After relentless efforts, Ajax Systems

can cater to the high-security market's needs. Ajax's wired Fibra devices are now officially certified as EN 50131 (Grade 3). This achievement underscores the company's commitment to delivering top-tier security solutions for a broader range of facilities.

The certification is pivotal for high-risk establishments, including banks,

gun shops, government agencies, museums, large warehouses, and offices housing valuable equipment and information. With this accomplishment, Ajax Systems not only marks a significant milestone but also enhances its capability to integrate third-party devices into the Ajax system, thanks to the Transmitter and MultiTransmitter modules. ■



CONTROL FROM ANYWHERE WITH NEMTEK

Control and monitor your energizer from anywhere with Nemtek Connect and have added peace of mind on the status of your electric fence.

With over 30 years of experience in designing electric fencing products and technologies, Nemtek has the inhouse knowledge and expertise to locally manufacture and supply the full spectrum of energizers and fencing hardware applications for residential, commercial, industrial, utilities and high-risk security fencing.

Nemtek Connect is a mobile application designed to remotely monitor and control Nemtek security electric fence energizers equipped with GSM cellular connectivity from anywhere and at any time. It allows users access to real-time information about the energizer's status, receive real-time alerts, as well as customising the system to their unique needs – all providing increased security and efficiency in managing the security of the electric fence. Whether you need to secure a small residential property, or a large commercial fence, Nemtek Connect provides you with an easy-to-use advanced, flexible and reliable security management solution that ensures the ongoing safety of your property.

Nemtek Connect works by connecting to a Nemtek electric fence energizer with GSM cellular connectivity via a GSM module. This module allows



the energizer to communicate with the mobile application, providing real-time updates and control over the electric fence system. Users can access the mobile application from a smartphone or tablet with access to a GSM cellular network, allowing them to remotely monitor and control the electric fence system from anywhere with an internet connection. An external aerial may be required to improve connectivity in areas where the GSM signal is weak.

The benefits of using Nemtek Connect on Nemtek energizers vary according

to module of energizer and can include:

- Remote monitoring and control of the electric fence system, providing increased security and peace of mind.
- Access to real-time information about the energizer, including status updates and fault alerts.
- The ability to customise the energizer's settings, such as adjusting the pulse rate and voltage, to suit specific security needs.
- Increased efficiency in managing electric fence security, reducing the need for physical checks and maintenance.
- Nemtek Connect offers different user levels, ranging from an owner who has complete control of the system to a basic user who has limited access. This allows for flexible and secure management of the electric fence system.

Whether you're starting from scratch or upgrading an existing electric fence system, we have the perfect solution for your security needs. ■



AIPHONE IXG SERIES INTERCOM SYSTEM

Exhibited at Intersec 2024 show, IXG Series: Elevate security and convenience in apartment living with our state-of-the-art IP video intercom system. GT Series: Experience seamless communication in apartment complexes through our advanced analog video intercom system.

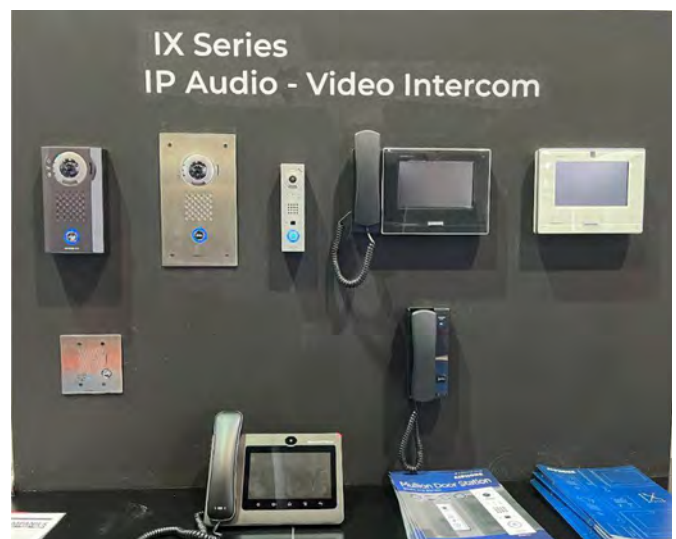
IX System: Revolutionize business communication with our robust IP intercom system designed for commercial applications. JV System – New Product: Introducing our latest simple video intercom system.

The IXG Series works as a complete IP Residential system. It can help improve security and lifestyle convenience. The IX system comes with a Smartphone App so that the users can respond to the visitors in real time.



The complexes with residential and commercial systems can benefit from this integrated intercom system. Some common features are listed below:

- Reliable smartphone app available
- IP-based peer to peer system
- Answer calls even when you're away from home.
- An intricate communication network between Video Tenant Station and Video Entrance Station
- Smooth integration with the IX series and network camera system. ■



HUB PARKING TECHNOLOGY DELIVERS DIGITAL PAYMENT TECHNOLOGY WITH THE LAUNCH OF J4PAY

With this plug-and-play mobile solution, Owner and Operators can easily modernize and optimize their parking assets with smart, QR-based technology.

HUB Parking Technology, a brand of FAAC Technologies, global leader in mobility and parking solutions, today unveils J4Pay, a mobile QR-based payment solution that delivers the digital consumer experience preferred by today's modern parkers. Fully integrated with our HUB Parking Systems, the release of J4Pay is yet another solution for parking operators and owners to utilize in the modernization and optimization of their parking assets.

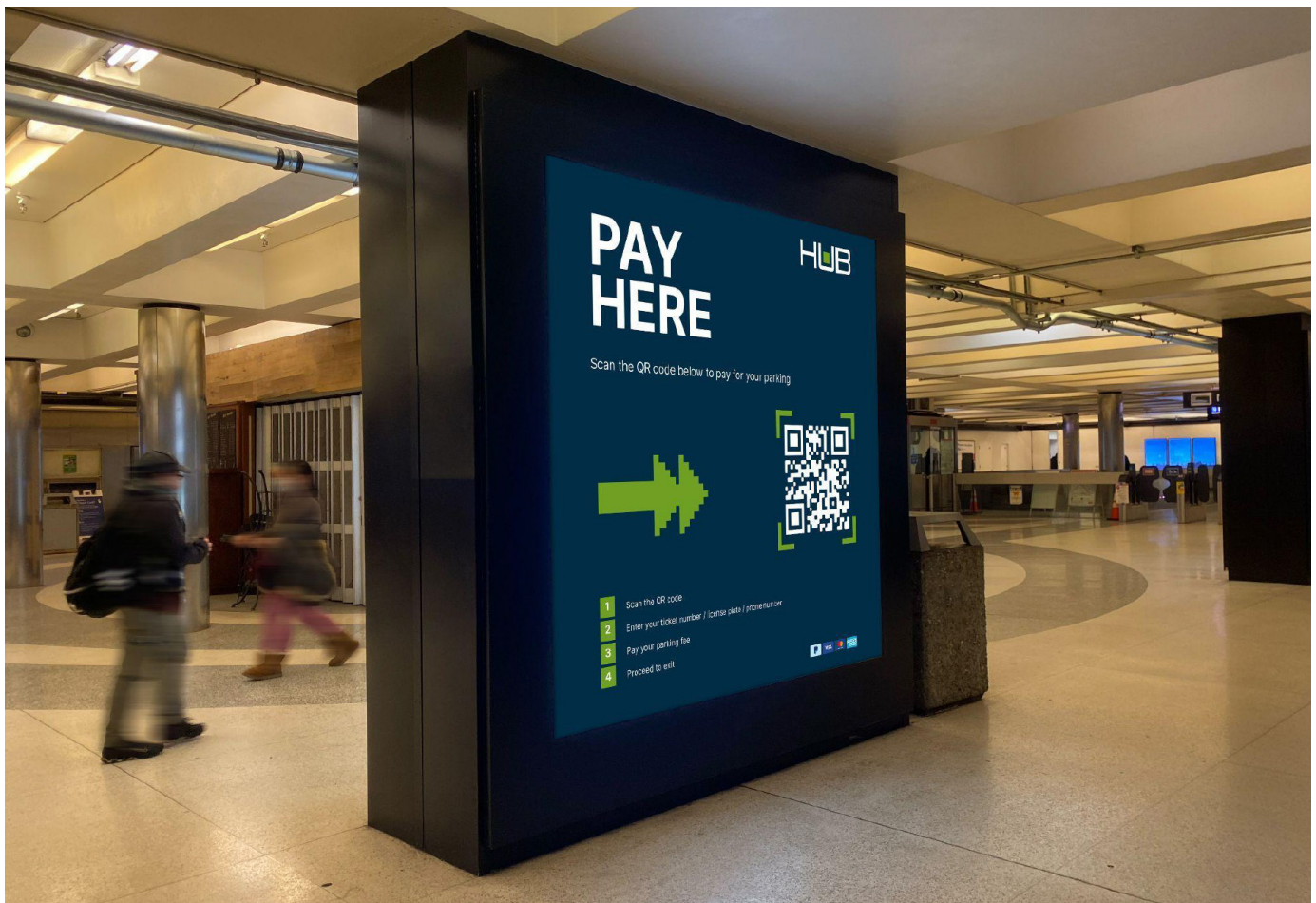
J4Pay represents an unmissable step forward in our connected ecosystem of parking services, providing drivers with a quick, easy,

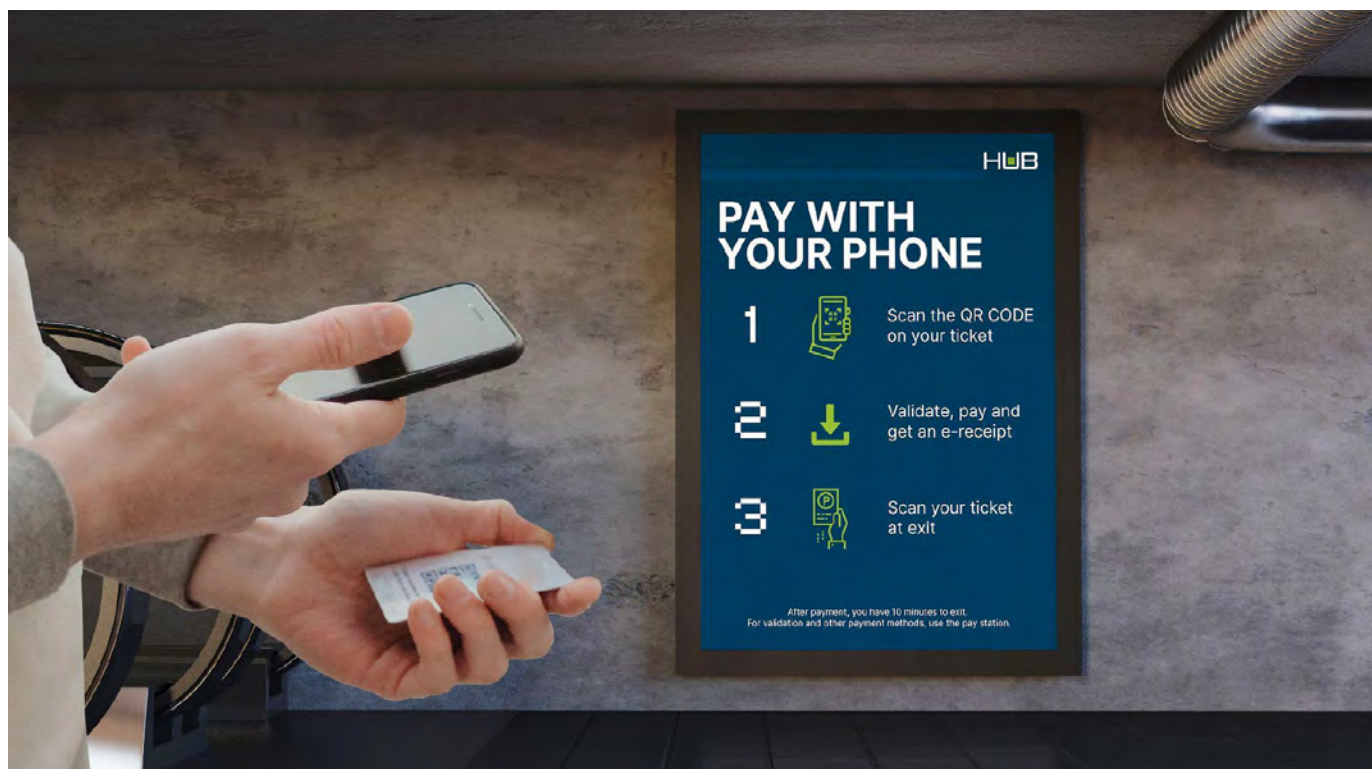
and secure method to pay for their parking tickets directly from their own mobile devices. This innovative solution is set to enhance the convenience and efficiency for all stakeholders involved.

HUB Parking commits to protecting customers' investment with the continual release of new and enhanced digital features, that future-proof their parking assets. Any car park with existing JUPITER equipment will soon be able to activate J4Pay and easily promote the solution adoption by transient and recurring drivers, with the support of dedicated signage.

Key Features of J4Pay:

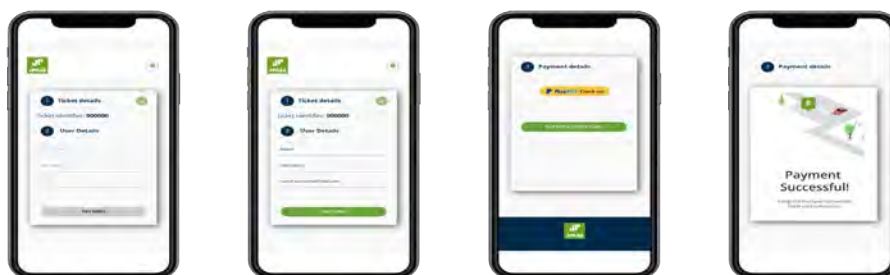
1. **Simplicity in Payment:** J4Pay enables drivers to effortlessly scan QR codes displayed on signage in the car park or directly from their parking tickets.
2. **Versatility for All:** J4Pay caters to a wide range of parking facilities, whether gated or gateless, and is compatible with both paper tickets and license plates recognition (LPR or ANPR) for ticketless and hybrid sites, making it a versatile solution for parking owners.
3. **Streamlined Revenue Management:** J4Pay seamlessly integrates with HUB's reliable





management system JMS, providing parking owners and operators unified revenue reporting and simplifying transaction management.

4. **Cost-Efficient:** J4Pay saves on maintenance costs with its hardware-free sustainable solution; cashless by design, J4Pay relieves operators from hardware maintenance and from the risks related to cash management.



Sample User Flow of the J4Pay mobile payment

Key Benefits for Drivers:

1. **No Downloads or Registrations:** Drivers will appreciate the hassle-free experience, as J4Pay requires no app downloads or registrations, ensuring a smooth and swift payment process.
2. **Pay Anywhere:** With J4Pay, drivers can pay for their parking tickets from anywhere, giving them the flexibility, they desire.
3. **Faster Payment Process:** J4Pay offers a user-friendly interface designed for simplicity, eliminating waiting times and making the payment process faster and more convenient.
4. **E-receipts and Accessibility:** Users will receive electronic

receipts for parking payments directly to their email, providing a digital record of their transactions and enhancing accessibility.

"We are proud to introduce J4Pay, a groundbreaking solution that represents our commitment to innovation and customer satisfaction. J4Pay will facilitate the upgrade of parking services globally by simplifying the payment process for drivers while providing parking owners with a reliable, cost-effective solution," expressed Luca Cervato, Business Unit Director at HUB Parking Technology.

"J4Pay is designed to redefine the payment parking experience for

drivers, who demand digital and seamless experiences via their smartphone. Now, their digital check-out is just a few clicks away, without the need to download an additional app: J4Pay enables a truly connected customer experience," explains Mattia Piunti, Product Marketing Manager at HUB Parking Technology.

J4Pay marks the dawn of a new era in parking payment solutions, where convenience and efficiency converge to create a seamless parking experience for drivers and parking owners alike.

For more information about J4Pay and HUB Parking Technology, please visit www.hubparking.com. ■

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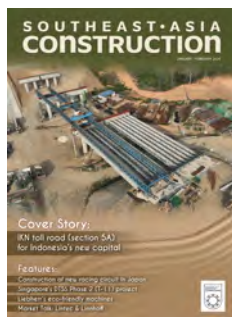
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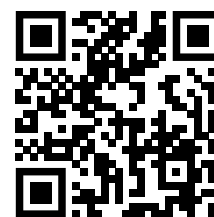
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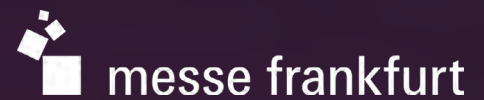
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