THAI DEFENCE MINISTER SUTIN KLUNGSANG OPENS DEFENSE AND SECURITY 2023

The Thai Government Minister for Defence, Sutin Klungsang opened the Defense & Security 23 event at the IMPACT Exhibition & Convention Centre, Muang Thong Thani, Thailand. The event is held from 6 - 9 November 2023 (Monday 11.00-17.00 Hrs. & Tuesday-Thursday 10.00-17.00 Hrs.). It is primarily supported by the Ministry of Defence.
Make networking your most powerful weapon

To stay ahead in today’s conflicts, you need to accelerate the loop from observation to action, share rapid and relevant information, and provide common situational awareness to the forces involved. To achieve this with efficiency, you also need more advanced ways of sharing information in a timely accurate manner. This is realised with the Network-Centric Warfare (NCW) capability.

This is exactly what Saab has delivered to Thailand. An Airborne Early Warning System, an advanced Combat Management System to both the RTAF and the RTN and Gripen – all designed to be central components of a net-centric capability with the ability to integrate other resources such as ground-based radars and air defence systems.

We are proud of our partnership with the Royal Thai Armed Forces and will continue to provide solutions designed to grow defence capabilities to counter new and more challenging threats.

Learn more at saab.com
The performance that began with our polymer construction is now forging forward. The lightweight and rigid metal frame of the Smith & Wesson M&P9 M2.0 Metal provides an extraordinary foundation for higher performance. Built on the M&P platform, it is compatible with all fullsize M2.0 magazines, slides, holsters and palmswells.

The event is based around the following concepts:

- Static Displays
- Technical and special seminars / presentations. There are around 20 seminars taking place over 7 & 9 November.
- Provision has been made for live demonstrations.
- General networking including VIP lunches.

The themes for the seminars (being staged in Amber 1 are:

7 November - Ground-Based Air Defence
- Asia Defence Market Briefing
- Information Superiority
- How to counter UAV and US in a naval environment
- Future Military Technology
- APV & ECS for Helicopter Engines for Unmanned Platforms

9 November
- Link to defence industry value chain within ASEAN and global partners
- Domestic development of EOD robot
- Role and responsibility of DTI to promote and support UAS ecosystem in Thailand
- Military Simulation and Training in DTI

Guests at the opening ceremony were entertained by an energetic display of Thai cultural dancing, which was presented in three parts, with different dancers and costumes making a very colourful display.

The opening address was presented by Permanent Secretary for Defence General Sanitchanog Sangkachantra, who welcomed the packed ceremonial hall and thanked the organisers, GML Exhibition (Thailand).

The performance that began with our polymer construction is now forging forward. The lightweight and rigid metal frame of the Smith & Wesson M&P9 M2.0 Metal provides an extraordinary foundation for higher performance. Built on the M&P platform, it is compatible with all fullsize M2.0 magazines, slides, holsters and palmswells.
EDGE GROUP ACQUIRES A MAJORITY STAKE IN LEADING AUTONOMOUS AIR SYSTEMS DEVELOPER ANAVIA

The UAE’s EDGE Group, one of the world’s leading advanced technology and defence groups, has announced the acquisition of a 52% majority shareholding in ANAVIA, a Switzerland-based company that specialises in the design, development, and manufacturing of versatile vertical take-off & landing (VTOL) systems of up to 750 kilograms, and their associated capabilities. The move will see EDGE become a market leader in this highly-specialised domain.

ANAVIA produces a range of industry-leading unmanned helicopters for various mission profiles such as surveillance and reconnaissance, inspection, and mapping and cargo, which can be adapted to EDGE’s cross-complementary portfolio of air, land, and maritime capabilities. The Group is placing a major focus on the development of autonomous systems.

Mansour AlMulla, Managing Director & CEO of EDGE Group, said: “The acquisition of a majority share in ANAVIA is an important step in EDGE’s strategy of bolstering its advanced autonomous aerial vehicle capabilities as it rapidly expands its portfolio of multi-domain systems and solutions and its global export footprint. The deal will enable us to benefit from ANAVIA’s proven experience in the development of high-quality and technologically advanced unmanned helicopters to complement our existing range of autonomous aerial systems, and its established supply chains, to become a market leader in this field. It will also allow ANAVIA to take advantage of EDGE’s scale and the opportunities this presents for further innovation across relevant areas of the group.”

ANAVIA employs a highly-skilled team of experts in the autonomous aircraft domain, covering areas such as composite, mechatronics, aircraft maintenance, flight testing, and software engineering.

Jon Andri Jörg, Founder & Co-CEO of ANAVIA, said: “Together with EDGE, we are poised to redefine the possibilities in this field and deliver ground-breaking solutions to meet the evolving demands of both military and civilian sectors, and there is great potential here. As we explore these synergies together and push the boundaries in our domain, we will continue to build on the unrivalled expertise which has seen ANAVIA grow rapidly as a leader in the production of superior ‘Made in Switzerland’ autonomous aerial solutions.”

Ishan Sahgal, Founder & Co-CEO of ANAVIA, added: “We are immensely proud of us forging this pioneering partnership and joining the EDGE family. It will enable us to collaborate on unmanned helicopter platforms, marking a significant milestone in autonomous aviation. It also reflects ANAVIA’s commitment to pushing the boundaries of technological innovation and revolutionising the future of unmanned helicopter systems.”

EDGE will use its presence at the upcoming Dubai Airshow 2023, taking place from 13-17 November, to showcase ANAVIA’s innovative VTOL solutions.
MITSUBISHI ELECTRIC SHOW FIXED AND MOBILE AIR DEFENCE RADARS

Mitsubishi Electric’s booth at Defense & Security 2023 will showcase a range of solutions and capabilities for defence applications. These include the FPS-3ME and TPS-P14ME fixed and mobile air surveillance radar systems, a company statement explained.

A spokesperson added that these air defence radars “offer superior detection range and tracking capabilities for defence applications such as ballistic missiles and unauthorised aircraft”.

Significantly, Mitsubishi Electric supplied both radar types to the Philippine Air Force under a contract awarded by Manila in August 2020. These radars help maintain air surveillance coverage for the Philippines, including over its exclusive economic zone. Most importantly, this sale represented “the first instance of an export of defence equipment from Japan to an overseas user.”

Turning first to the FPS-3ME, this long-range 3D active electronically scanned array (AESA) air surveillance radar was entirely developed and manufactured in-house by Mitsubishi Electric. The L-band radar with an instrumented range of 330 nautical miles (611 kilometres) can detect and track multiple aerial targets with its gallium nitride (GaN) transmit/receive modules.

The FPS-3ME nomenclature denotes that it is a new and improved version of the J/FPS-3 that the Japan Air Self-Defense Force (JASDF) has been using for 30+ years. It is continuously upgradable with new modes and functions, plus a ballistic missile defence mode is available.

As for the TPS-P14ME radar type, it is a mobile-type long-range air surveillance radar offering precise detection and tracking of multiple aerial targets. It is based on the J/TPS-P14 operated by the JASDF, and Mitsubishi Electric stated that it “is proven to be reliable in a wide range of operating environments and conditions”.

Again, this 3D radar uses GaN transmit/receive modules. Rapidly deployable, it can be transported inside a C-130 Hercules transport aircraft, for example. Operating in the S band, the TPS-P14ME radar has an instrumented range of 250nm (463km).

Mitsubishi Electric makes the TPS-P14ME mobile-type long-range air surveillance radar.
SOOSUNG DEFENSE ROLLS OUT THE BARREL CLEANERS

Soosung Defense Industries is a South Korean company that specialises in automatic bore cleaners. Indeed, its products are used throughout the Republic of Korea Army and Marine Corps to clean the gun barrels of Hyundai Rotem K2 main battle tanks and Hanwha K9 155mm self-propelled howitzers.

As it name suggests, Soosung Defense’s Automatic Bore Cleaner (ABC) works in an automatic fashion, so much so that only one person is required to operate it. This is in stark contrast to the traditional method whereby several people manually insert a long-handled steel brush into the gun barrel for cleaning. This can damage the gun barrel, and the quality of cleaning depends on available manpower and time constraints.

With the ABC, the company promises a “perfect cleaning result” to remove residue and grime, which leads to higher shooting accuracy and maximum utilisation of a barrel’s life.

Indeed, Soosung claims it has “the world’s most portable and effective automatic bore cleaner”. A crew can remain inside their tank while cleaning is ongoing, and the maker adds that the ABC can also work in any weather conditions.

Different types are available for both rifled and smoothbore gun barrels. It is available for 120mm and 125mm tank guns, as well as 105mm and 155mm artillery barrels. Furthermore, the ABC is used on naval gun barrels of 76mm and 127mm calibers.

The ABC operates on 24V DC power, which is the standard output of an armoured vehicle. Alternatively, the South Korean firm can offer ABCs that operate on AC 110V, DC 220V or 240V.

Taking the RB-155 automatic bore cleaner as an example, it measures 775mm long and has a 151mm diameter. Weighing 32 pounds (14.5 kilograms), it cleans at a rate of 1.5-1.8m per minute. The device has a driving force of more than 11lbs (5kg), and it operates at more than 500rpm.

Soosung also notes that its Automatic Bore Cleaner has been adopted by the Royal Thai Marine Corps and is in active use. At Defense & Security 2023, Soosung Defense Industries is promoting its ABC to the Royal Thai Army too. The company stated, “Soosung Defense Industries invites the Thai armed forces to a long-term partnership for mutual cooperation.”
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DSA/NATSEC
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LAND FORCES
September 11-13, 2024
Melbourne, Australia

ADAS 2024
September 25-27, 2024
Manila, Philippines

JAPAN INT’L AEROSPACE
October 16-19, 2024
Tokyo, Japan

INDO DEFENCE
November 6-9, 2024
Jakarta, Indonesia

AVALON
March 25-30, 2025
Geelong, Australia

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May 6-8, 2025
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May 21-23, 2025
Chiba, Japan

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Defense & Security Show 23 exhibitor Lockheed Martin has confirmed an acquisition from the Republic of the Philippines Department of National Defense of three new C-130J-30 Super Hercules tactical aircraft through a Direct Commercial Sale.

The tactical mission profile requires a proven aircraft that delivers known operational results and capabilities when operating in challenging environmental and geographic conditions. The C-130J-30 is a well known aircraft platform that will add capabilities to the Philippine Air Force (PAF), who is already a C-130 operator.

The PAF currently operates a mixed fleet of legacy C-130s to support critical humanitarian, military and natural disaster relief missions throughout the Indo-Pacific region. PAF crews will operate the C-130J-30, the stretch version of the C-130J that offers an additional 15 feet (5 metres) of cargo space. The Super Hercules’ increased power, range, integration, space and capability will support PAF crews in meeting complex and evolving tactical mission requirements.

"Philippine Air Force crews have long demonstrated what the C-130 is designed to do: go everywhere — in any condition — to deliver hope and help where it's needed most," said Rod McLean, vice president and general manager of Lockheed Martin's Air Mobility & Maritime Missions line of business.

With its new C-130J fleet, the Philippines is part of a global network of Super Hercules operators and offers the PAF unmatched commonality among allied partners, access to a robust international support community, an active supply chain, an innovative block upgrade program and training opportunities with other C-130J operators across the world.

The PAF's existing knowledge of the Hercules aircraft and existing infrastructure also offers a seamless transition between airframes as compared to introducing an entirely new aircraft variant into a fleet, which requires significant time and investment that can prolong fleet readiness.

All three new aircraft are scheduled to be delivered in 2026.

**PHILIPPINES AIR FORCE SIGN UP FOR THREE C-130J-30S**
MILKOR OFFERS MANNED AND UNMANNED VESSELS FOR MARITIME PATROL

Milkor’s Naval Defence Solution Division forms a core part of Milkor’s vision and growth strategy. Situated in Abu Dhabi in the UAE, Milkor NDS consists of a full Marine Engineering and Naval Architecture team, with proven capability to research, design, prototype and manufacture innovative vessels for law enforcement, coast guard and naval forces.

Its first product, the Milkor IPC, leverages hydrofoil technology, and achieves cruising performance unmatched by any vessel in its class. The IPC has the ability to switch between manned and unmanned operation.

The Milkor IPC unmanned variant, has been designed from the ground up to maximise the advantages offered by a USV. Capacity for payloads, both in terms of mass and volume, allows integration of a wide range of payloads, including multiple types of missile systems.

Another product is the Milkor Commander, designed to be the best-in-class vessel for law enforcement, coast guards and maritime security. With a top speed of 45 knots, extreme range of 500 nautical miles at 35 knots, ample working area, extreme manoeuvrability, and space for up to 12 crew members, the Milkor Commander is even capable of handling in four metre swells.

In the dynamic realm of unmanned aerial systems (UAS), Milkor has positioned itself as a prominent industry player. The company’s latest development, the Milkor 380, has emphasised the platform’s innovative design, focusing on safety systems, operational data, architecture, and structural enhancements.

The Milkor 380 is a NATO Class III RPAS designed to perform surveillance, reconnaissance, and target engagement operations. Its versatile design allows it to handle long-range missions effectively with an endurance of up to 35 hours. Equipped with advanced optical equipment, it can transmit HD, infrared and multispectral video and data. The 380 includes Synthetic Aperture Radar (SAR), Inverse Synthetic Aperture Radar (iSAR) with Ground and Maritime Movement Target Indicators (GMTI/MMTI), and multiple options for precision guided munitions. The integration of these subsystems onto the 380 will be fundamental for operations in the Asian region.

Milkor is also the world-leader in 40mm hand-held weapon systems, being the first company in the world to design and develop the Multiple-Grenade Launcher. As the pioneer of such products, Milkor is able to update and modernise its portfolio as needed without compromising quality and performance.

For Maritime Patrol
National and international exhibitors are attending the D&S 23 show. There is a wide range of defence platforms to view, from armoured vehicles, to unmanned aerial vehicles, ambulances and artillery.

(All photos provide by Bilingual Show Daily’s Editor-at-Large Gordon Arthur).

Chaiseri is an established manufacturer of armoured vehicles in Thailand. At this year’s show in Bangkok it unveiled a brand new 8x8 platform called the Armoured Wheeled Amphibious Vehicle (AWAV). In August, Chaiseri has won a contract to supply seven of these AWAVs to the Royal Thai Marine Corps.

Aero Technology Industry Company Limited (ATIL) is a collaboration between DTI of Thailand and a Chinese partner. Several UAVs were on display, including the DP18A combat tactical UAV (foreground), the DP20 medium-altitude long-endurance UAV (behind) and the DP16 (background).

The UAE has a very large presence, and the country’s largest product on display is this Kasser II 4x4 mine-resistant ambush-protected (MRAP) vehicle. Built by Abu Dhabi-based M4 Industries, the 17.2-tonne Kasser II was unveiled only in 2021. At the Bangkok show the MRAP is being displayed under the International Golden Group banner.

Korea Aerospace Industries (KAI) is heavily involved in developing UAVs. At Defense & Security 2023, the aerospace company from South Korea is showing a scale model of its N1-500VT unmanned aircraft. This tiltrotor platform that uses vectored thrust has a maximum take-off weight of 450kg.

This multiple rocket launcher stems from collaboration between Israeli firm Elbit Systems and the Defense Technology Institute (DTI) of Thailand. The D11A rocket system pictured here is a Thai version of the Israeli PULS, and it is making a return after debuted at last year’s show in Bangkok.

The Royal Thai Navy’s plan to obtain an S26T submarine from China are in disarray over Germany’s refusal to supply engines. The Thai government recently suspended the programme and seems intent on buying surface warships from China instead. Nonetheless, CSSC has this scale model of an S26T submarine on display.
This Thai-built 4x4 light tactical vehicle has a 120mm Ground Deployed Advanced Mortar System (GDAMS) from ST Engineering installed on its rear. Furthermore, on the vehicle roof is an Adder Lite 7.62mm remote-controlled weapon station, also from ST Engineering in Singapore.

The MARCUS-B UAV was developed by the Naval Research and Development Office (NRDO) for the Royal Thai Navy. This hybrid UAV has a wingspan of 4.5m, a maximum take-off weight of 35kg and an endurance of seven hours.

After debuting more than ten years ago, the Black Widow Spider 8x8 amphibious vehicle from Thailand’s government-owned Defence Technology Institute (DTI) is a regular at Defense & Security exhibitions. This one is fitted with an Adder remote-controlled weapon station from ST Engineering.

After originally appearing as the Shenyang FC-31 fighter, the J-31 has been successfully improved into quite a different aircraft. Although the People’s Liberation Army Navy has not yet adopted the improved J-31 for carrier-borne operations, AVIC is showing this scale model of the fifth-generation J-31 to tickle the fancy of prospective export customers.

Chance Inter Business Bodybuilder (CIBB) acts as distributor for Mercedes-Benz trucks in Thailand, and it is showing three different vehicles suitable for military operations. One was this white-painted Mercedes-Benz Unimog U4000 Crew Cab LWB truck outfitted for firefighting missions, whilst the others were an Arocs 1936A and an Atego 1121A.

The MERT-R UAV with eight propellers is designed for casualty evacuation missions. Developed for the Royal Thai Army’s Medical Department, it is large enough to carry a stretcher case from inhospitable terrain or to deliver urgent medical supplies to troops.

The M758 ATMG, which stands for Autonomous Truck-Mounted Gun, is a 155mm howitzer based on a Tatra truck 6x6 chassis. The system utilises the ATMOS 2000 howitzer from Elbit Systems in Israel. So far, 24 ATMGs have been delivered to the Royal Thai Army and six to the Royal Thai Marine Corps.

The First Win 4x4 MRAP is Chaiseri’s most important vehicle. The United Nations has ordered 15 vehicles of the type to be operated by Bhutan on a UN peacekeeping mission in the Central African Republic. This is the 11.3-tonne Armoured Ambulance Vehicle variant of the First Win, which Bhutan also received.
Singaporean company TRD is launching a new man-portable drone gun at Defense & Security 2023. Called the Orion-I, where the “I” stands for integrated, this is a next-generation, networked system-of-systems suite.

The handheld Orion-I combines the capabilities of the Orion-D MP and/or Orion-D HH detection systems, combined with the latest Orion-H9 drone gun with add-on Orion-MOC mobile operations console to act as defeat systems. The Orion-I also adds the Orion-C2 Lite web-based command-and-control tablet. This shows detected drone data on an interactive map. Alternatively, the information can be displayed on an Orion-C2 Smart Watch, which provides intuitive visual and sound alerts to a single operator.

Asked what is so unique about the Orion-I system of systems, TRD explained that the “concept usually applies to fixed-site and mobile vehicular solutions. TRD is believed to be the first to offer a man-portable solution to the concept, which provides extended mobility and reach for critical-asset protection that may have otherwise be limited by range and line of sight. At the same time, TRD came up with a web-based approach to communication for quicker and easier access of information among all the systems.”

The fact that the Orion-I is man-portable is a bonus, since it is quick and versatile to deploy. Another advantage of the system-of-systems approach is that customers can start with a basic capability of standalone devices, and then scale up to create an integrated and seamless counter-drone system over time.

The aforementioned Orion-H9 is effective in nine bands (five radio frequency bands and four GNSS systems) selectively and simultaneously. TRD noted: “Even though the distinct shape of the Orion drone gun remains constant, the technology inside continues to advance to address the ever-evolving drone threats. This has proven to be able to take down even the latest commercial, DIY and certain military-grade drones we see in the market today.”

The Orion-H has been used in 28 different countries to date, indicative of the popularity of TRD’s counter-UAS (C-UAS) systems.

Since the previous Defense & Security 2022 exhibition, TRD has delivered eleven Orion-I Next-Generation Counter-UAS Vehicles to an Asian client. The company has also added new functionality to its vehicle-based system in terms of a drone-on-drone capability for extended surveillance and jamming range. The vehicle-based solution can also detect and jam on the move.

Furthermore, the Orion-SP navigational satellite spoofing system has been integrated. This gives another soft-kill option in addition to jamming. The Orion-SP causes UAVs entering a “spoofed” protection area to become “lost”. This results in the drone turning away, making a forced landing or flying according to a set trajectory.

Significantly, TRD’s Counter-UAS Test Centre in Thailand is in full swing, located just one hour’s drive from Bangkok. This operational range permits live testing and evaluation. The Singapore company noted, “TRD feels testing and evaluation is especially important, as UAS threats and C-UAS solutions continue to evolve quickly.”

TRD runs regular workshops and live demonstrations for customers at its test centre. Situated there are six types of radars, eight kinds of RF detection systems, various jammers, a GPS spoofer and numerous UAVs for testing. An example test may involve simultaneously flying multiple drones of different sizes, to test how quickly and accurately a system can detect, identify and track each drone.

Importantly, the Thailand-based Counter-UAS Test Centre possesses a military grade certification centre. It can conduct rigorous tests such as radiation hazard assessments, ingress protection evaluations, and compliance to MIL-STD-461G and MIL-STD-810H standards.

TRD is pleased to say that, following a campaign to expand its global presence implemented in 2021, it has gained footholds in both the Middle East and Europe. Indeed, TRD
successfully delivered 50 Orion-H9 drone guns to a Middle East military customer within three months. Additionally, the Singapore entity is in talks to create a joint venture company in the Middle East, with hopes of locally producing 1,000 Orion-H9s in the next year.

As for Europe, TRD delivered its full-suite, fixed-site Orion Anti-Drone System to two European countries to help protect critical infrastructure. TRD added that its European strategy is to “look to develop strategic partnerships in the market to create synergies between C-UAS solutions, and/or partner for local production”.

As well as selling equipment, TRD offers a C-UAS service. For example, it can deploy equipment for one-off events. An example is September’s ASEAN Summit in Indonesia, plus another is the APEC Summit in Thailand in November 2022. This service can also provide a stop-gap solution for airports or airbases whilst authorities evaluate more permanent C-UAS solutions.

Regarding its presence at Defense & Security 2023, TRD shared: “Thailand stands as a testament to our successful partnerships, being one of our most significant customers to date. Our collaboration with customers and partners in Thailand has been a journey of empowerment, aiding them in enhancing their C-UAS capabilities. Today, they are not only equipped with advanced systems, but they also have a skilled workforce to support pivotal in-country events, such as the APEC Summit held last year.”

It concluded: “TRD has firmly rooted its presence in Thailand by establishing a comprehensive product development cycle. From ideation to production and rigorous testing, our local centre ensures that we deliver products tailored to the unique needs of the region, ensuring superior quality and relevance.”
ระบบต่อต้านอากาศยานไร้คนขับของ TRD หายไปทั่วโลก

TRD ของบริษัทปิ้นจี้ได้เปิดเผยผลิตภัณฑ์ต่อต้านอากาศยานไร้คนขับในงาน Defexpo ปีที่แล้วที่อินเดีย ที่จัดขึ้นในเดือนสิงหาคม 2023 โดยได้รับการตอบรับที่ดีจากผู้ประกอบการและผู้บริโภคทั่วโลก.

ในช่วงที่ผ่านมา บริษัท TRD ได้รับการยอมรับอย่างต่อเนื่องจากต่างประเทศที่มีการพัฒนาจักรยานยนต์ระบบต่อต้านอากาศยานไร้คนขับ ทำให้ศูนย์ทดสอบนั้นได้รับการพัฒนาในการทำงานอย่างต่อเนื่อง.

ระบบต่อต้านอากาศยานไร้คนขับของ TRD นั้นจะมีการศึกษาความรู้และความคิดสร้างสรรค์ที่ดีที่สุด ที่สำคัญคือ บริษัท TRD ได้รับการยอมรับจากผู้บริโภคทั่วโลกที่มีการพัฒนาจักรยานยนต์ระบบต่อต้านอากาศยานไร้คนขับอย่างต่อเนื่อง.

ในส่วนของการพัฒนาและติดตั้งระบบต่อต้านอากาศยานไร้คนขับของ TRD นั้นได้รับการยอมรับที่ดีจากผู้บริโภคทั่วโลกที่มีการพัฒนาจักรยานยนต์ระบบต่อต้านอากาศยานไร้คนขับอย่างต่อเนื่อง.

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แม้ปืนต่อต้านอากาศยานไร้คนขับรุ่นต่าง ๆ จะมีรูปร่างคล้ายเดิม แต่การพัฒนาและการปรับปรุงสิ่งที่ใหม่ ๆ ที่มาจากการพัฒนาของผู้ผลิตในอนาคตจะยังคงเป็นสิ่งที่สำคัญ.

ในปัจจุบัน Orion-H ถูกใช้งานที่ 28 ประเทศ ซึ่งเป็นชั้นต้นที่ชัดเจนของความมั่นคงของระบบต่อต้านอากาศยานไร้คนขับ (C-UAS) จากบริษัท TRD.

ติดต่อสอบถามได้ที่ Defexpo และ Security ปีที่แล้วที่อินเดีย ที่จัดขึ้นในเดือนสิงหาคม 2023 โดยได้รับการตอบรับที่ดีจากผู้ประกอบการและผู้บริโภคทั่วโลก.

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ในส่วนของการพัฒนาและติดตั้งระบบต่อต้านอากาศยานไร้คนขับของ TRD นั้นได้รับการยอมรับที่ดีจากผู้บริโภคทั่วโลกที่มีการพัฒนาจักรยานยนต์ระบบต่อต้านอากาศยานไร้คนขับอย่างต่อเนื่อง.
7 November 2023

10:00 - 10:45  Ground-Based Air Defence System IRIS-T
Speaker:  Mr. Sascha Straub  
Company:  Diehl Defence  
Country:  Germany

11:00 - 11:45  Asia Defence Market Briefing: Asia Pacific Market in Global Context
Defence Spending Market Driver
Speaker:  Mr. Paul Burton - Managing Director  
Company:  Aviation Week Network  
Country:  Singapore

13:00 - 13:45  Information Superiority - The Ultimate Force multiplier in Modern Warfare
Speaker:  Mr. Kah Kin Ho - Head of Cyber Security ASPERI Q  
Company:  ASPERI Q  
Country:  Sweden

14:00 - 14:45  How to counter UAV and US in a naval environment
Speaker:  Mr. Marco STRIKER - Marketing Manager, Naval Systems- Managing Director  
Company:  Thales  
Country:  France

15:00 - 15:45  Future Military Technology: GM400 alpha - Taking Air Surveillance to the next level
Speaker:  Mr. Kenny BAXTER - Asia Regional Sales Director, Defence Air Systems  
Company:  Thales  
Country:  France

16:00 - 16:45  1. AV & ECS for Helicopters Engines for Unmanned Application  
2. Turbine
Speaker:  Mr. Ravi Hazariya - Sales Director  
Company:  PBS India  
Country:  India

9 November 2023

10:00 - 10:45  Link in Defence Industry Value Chain” within ASEAN and Global partners
Speaker:  Col. Jirasak Jewmaidang - Deputy Director- General of Defence Technology Institute  
( Technology and Academic Services Group)  
From:  Defence Technology Institute  
Country:  Thailand

11:00 - 11:45  Domestic Development of EOD Robot
Speaker:  Capt. Thanasit Suasan (Ph.D.) - Senior Researcher /  
Mr. Vissanu Mungkung - Expert in Defence Technology Analysis  
From:  Defence Technology Institute  
Country:  Thailand

13:00 - 13:45  Role and Responsibility of DTI to promote and support UAS Ecosystem in Thailand
Speaker:  Sqn.Ldr. Pratchaya Uabuan - UAV Pilot  
From:  Defence Technology Institute  
Country:  Thailand

14:00 - 14:45  Military Simulation and Training in DTI: What we have done and  
how to drive the Defence Training Simulators and Applications
Speaker:  GP, Capt. Chamnan Kumsap (Ph.D.) - Director  
of Knowledge and Publication Management Department  
From:  Defence Technology Institute  
Country:  Thailand
There are around 55 different nations participating in this year’s event being staged at the IMPACT Exhibition & Convention Center, Muang Thong Thani, Thailand.

China has achieved major sales successes in Thailand with the likes of a Type 071 landing platform dock ship, VT4 main battle tanks, VN1 infantry fighting vehicles and FK-2 air defence missiles. China’s serious presence in Thailand is underscored by large booths from the likes of Norinco, CETC, CSSC, AVIC, ALIT and Poly Technologies.

South Korean defence exports are booming. For 2018-22, for example, South Korea was the world’s ninth largest arms seller, and its sales had exploded 74% compared to the preceding 2013-17 period. Large OEMs such as KAI, Poongsan, Hanwha Ocean and LIG Nex1 are present, as well as numerous smaller firms.

The UAE has a strong presence at this year’s show, predominantly through the EDGE Group that was formed in November 2019. The EDGE Group and other UAE companies are showing everything from armoured vehicles to small arms, UAVs to unmanned ground vehicles and even precision-guided munitions.

Turkey is achieving significant sales in the Southeast Asian region, and companies such as Aselsan are well represented at Defense & Security 2023. In fact, Aselsan has 15 customers in the Asia-Pacific region already. Pictured here is Aselsan’s Alkar AHS-120 mortar system of 120mm calibre.

The USA has been a defence treaty partner of Thailand since 1954, and the Thai military uses a significant amount of American equipment. Unsurprisingly, US companies big and small are out in force, headlined by blue-ribbon firms like Lockheed Martin and General Dynamics Land Systems.

The UK pavilion is led by firms like BAE Systems, which has achieved important past successes in Thailand with products like Krabi-class offshore patrol vessels built for the Royal Thai Navy by domestic shipbuilder Mahidol Adulyadej Naval Dockyard.
In terms of floor area, the Thai Ministry of Defence is surely the largest exhibitor at Defense & Security 2023. The various MoD-aligned entities such as the Defense Technology Institute (DTI) and Weapon Production Centre (WPC) are showing everything from UAVs and ammunition to self-propelled artillery systems.

Singapore might be the smallest country in Southeast Asia, but it has a high-tech and well-respected defence industry. The island nation is represented in Defense & Security 2023 by companies such as ST Engineering and TRD. The latter, which specialises in counter-drone systems, actually has a test and evaluation facility located in Thailand.

The best-known defence company from Sweden is without doubt Saab, and it proudly has a strong presence in Thailand’s defence market already. The Royal Thai Air Force operates Gripen fighters and Erieye airborne early warning aircraft, such as those illustrated here in scale model form.

Despite domestic trouble at home, causing some Israeli entities to withdraw from Defense & Security 2023, Israel has still maintained a strong presence. Key players such as IAI and Elbit Systems were in attendance, with their adjacent booths pictured here. These companies and others have provided equipment such as artillery, UAVs and radars to the Thai military.

Vietnam is just beginning to make its presence felt in terms of defence shows, with Viettel High Technology Industries Corporation enjoying its inaugural appearance at Thailand’s premier defence show. Viettel is showing its latest equipment such as radios, electronic warfare suites, radars and counter-drone systems.

India is another Asian country with ambitions to multiply its defence exports. Reflecting this desire, as well as India’s “Look East” policy, there are numerous state-owned and private companies present in Bangkok. Examples include BrahMos, Bharat Electronics Limited (BEL) and Larsen & Toubro.
Cellebrite specialises in digital intelligence solutions for the public and private sectors.

Cellebrite simplifies digital intelligence solutions

Cellebrite, headquartered in Israel, specialises in digital intelligence solutions for the public and private sectors. In July, it announced that its Cellebrite Guardian, an evidence and workflow management solution launched in late 2021 for law enforcement agencies, had received new capabilities. The company stated: “Cellebrite Guardian securely and transparently streamlines investigative digital forensic processes, enabling greater efficiency for law enforcement and investigative teams at scale, increasing case resolution and creating a verifiable-chain of custody for sharing digital evidence among examiners, investigators and prosecutors.”

One improvement is the “simple upload”, which permits users to drag and drop data and share evidence with any stakeholder in a simple two-step process. Furthermore, new “quick share” permissions allow interagency sharing or enhanced sharing between existing users, without need for thumb drives and so on.

In May, Cellebrite revealed that its software solutions, which include the first and largest deployment of data and insights from cryptocurrency transactions in the Latin American public sector, would be deployed in a major Latin American country. This deal multiplied the unnamed customer’s annual spending with Cellebrite by a factor of ten.

Countering human trafficking is another area where the company supports law enforcement and investigative teams. For example, Cellebrite and The Exodus Road – an international non-profit organisation disrupting human trafficking – were working closely together. Last year, they helped Brazilian agencies liberate 152 survivors of human trafficking and arrested 20 perpetrators.

Another customer is the National Bureau of Investigations (NBI) Anti-Human Trafficking Division in the Philippines. Cellebrite solutions such as UFED Cloud help accelerate justice in cases of exploitation. UFED Cloud extracts, preserves and analyses cloud-based content, and its field mobile extraction device collects evidentiary data in a forensically sound manner.

Arthur Veinstein, president, International, Cellebrite, said his company “recognises the urgency, priority and challenges of anti-trafficking work for all those on the ground fighting this fight every day. Our mission is to ensure that we provide the most accurate, effective and ethically sound digital intelligence technology to entities like Exodus Road and NBI so they can keep doing the essential work they do faster and better.”

In late 2022, another customer for Cellebrite solutions was the National Bureau of Investigation (NBI) Anti-Human Trafficking Division in the Philippines. Cellebrite solutions such as UFED Cloud help accelerate justice in cases of exploitation. UFED Cloud extracts, preserves and analyses cloud-based content, and its field mobile extraction device collects evidentiary data in a forensically sound manner.

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The New Player in Cyber Security

Dr. Takeshi Takahashi, Cybersecurity Expert
Associate Director, Cybersecurity Laboratory, Cybersecurity Research Institute, National Institute of Information and Communications Technology (NICT), Japan

AVM Amorn Chomchoey, Cybersecurity Expert
Secretary General, Office of the National Cyber Security Agency, Thailand / Moderator

Mr. Puchapong Nodhaisong, Digital Economy Policymaker
Secretary General, Office of the National Digital Economy and Society Commission, Thailand

Asst. Prof. Dr. Suvicha Pouaree, Socio-Political Expert
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