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Mönch Verlagsgesellschaft mbH (Mönch Publishing Group)



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Other journals of the Mönch Verlagsgesellschaft mbH are:

- MILITARY TECHNOLOGY (Special Issues in English),
- NAVAL FORCES (four times yearly in English),
- WEHRTECHNIK (eight times yearly, in German),
- RIVISTA ITALIANA DIFESA (monthly, in Italian)

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Photo:
German Federal
Police



The Quadrocopter Surveillor S has been designed as a robust carrier platform for advanced surveillance applications in military and law enforcement.
Photo: RKM

Briefing

Matching the threat, that's the answer

Measures to quickly detect, identify and counter the threat are coming into a wider focus. New detection and tracking systems could represent a viable tool to identify and reduce critical infrastructure vulnerabilities, to predict consequences of events and to prioritise the appropriate measures. Consequently, sensors remain the key enablers for real-time monitoring and control. Companies that deliver sensors optimised for critical infrastructure protection will create new revenue streams, as modern threats and risks are steadily growing in both frequency and intensity. It is time to overhaul the current threat analysis, since legacy technologies – analogue cameras – do not exist anymore. Time has changed much.

As widely emphasised by security experts, any of the agencies and organisations involved with protecting critical infrastructures and assets should further intensify their networking. This may include the gathering (by excellent sensors), analysis and interpretation of security-related information that must be shared between them and other sector entities. As best exemplified by more recent developments in the field of diver detection sonar technology, this will be one element of a much-needed coordination at a local level to fight endemic terrorist and illegal activities especially in the maritime security environment.

Among the most advanced threats, there are small unmanned aerial vehicles (UAVs) or drones. Besides rocket, artillery and mortar (RAM) projectiles, drones can represent a serious security threat. Drones are available in any shop; but, their autonomy is rather small. Mini-UAVs can fly for 24 hours or less, and in terms of intelligence they can gather much more than what a micro-UAV can do, industry said. Therefore, critical infrastructures must be protected against the use of those systems.

And there are cyberattacks. Large governmental agencies and corporations anywhere in the world are struggling against an onslaught of cyberattacks by thieves, hostile states and hackers, creating extra

challenges for cybercrime intelligence activities. As a consequence, these developments may have triggered new requirements for cyber intelligence, including cyber counter-intelligence. The use of Cyber Intelligence (CYBINT), like all the other specific disciplines in intelligence – HUMINT (Human Intelligence), OSINT (Open Source Intelligence), SIGINT (Signals Intelligence), GEOINT (Geospatial Intelligence) and MASINT (Measurement and Signature Intelligence) – can be the first step to understand the nature of cyberattacks, and to preserve evidence of cybercrime. However, there have been warnings that there is a general lack of information on what cyber intelligence is and how to appropriately use it. Also concerned about recent Russian cyberattacks, security organisations across Europe found that the use of intelligence, to collect, process, integrate, evaluate, analyse and interpret available information concerning foreign nations, hostile or potentially hostile forces or elements, or areas of actual or potential operations, is a vital ingredient of cyber defence.

Conclusion

Critical infrastructures of any kinds pose a unique problem for security practitioners. There is a myriad of technologies, which can be used to help secure critical infrastructures, including unmanned platforms (e.g., robotic vehicles) and electro-optical/infrared cameras, to name just two. More sensors, in addition to analytics and new forms of 'automating security', are increasingly being deployed, establishing a presence in control functions. This scheme includes cheap, but sophisticated platforms to carry the sensors. For example, small unmanned aircraft or drones (e.g., the Quadrocopter Surveillor S from RKM RotorKonzept Multikoptermanufaktur in Germany) more and more have utility as surveillance platforms over areas of special interest, if there is risk of unlawful intrusion. Those systems can observe and track at best slow- and fast-moving objects like cars or low-flying drones – the major threats at this time. (stn)

Creomagic unveils CreoAir Pro – the next generation of compact communications solutions for aerial networks

Hall 9
Booth 658

Creomagic Ltd., a leading developer of advanced communications technologies, introduces its latest generation of ultra-compact, high-performance wireless solutions at EnforceTac. Designed for the demanding requirements of aerial operations, CreoAir advanced Software-Defined Radio (SDR) technology delivers advanced security and connectivity performance across challenging environments.

Unmanned aerial vehicles (UAVs) and aerial systems have become indispensable on the modern battlefield, offering significant tactical advantages but facing unique challenges. These systems require robust, long-range control and seamless interoperability with other units. Compounding this, they often operate in environments prone to interference, spectrum limitations and adversarial threats. Tactical decision-making has become increasingly dependent on real-time video and data from multiple platforms and sensors. As such, reliable, low-latency and secure communications have become critical.

Creomagic's communications solutions are tailored to meet these needs, providing robust and resilient communications solutions for aerial operations. The CreoAir product line includes high-performance data links with superior data rates designed for various aerial applications, from lightweight, short-range operations to full, military-standard, long-range missions. Leveraging SDRs and Mobile Ad-Hoc Network (MANET) technologies, the solutions offer data rates of up to 40Mbps, adaptive video encoding, seamless integration with diverse interfaces, and simultaneous support for multiple data sources and control of multiple platforms.

From a security point of view, CreoAir provides advanced COMSEC and TRANSEC features to ensure resilient, uninterrupted communication. The system incorporates continuous spectrum scanning and analysis, AES-256 encryption, sophisticated frequency hopping and automatic

interference avoidance powered by cognitive SDR and advanced waveforms. These features reduce the likelihood of interception and detection (LPI/LPD) and deliver robust protection against Electronic Warfare (EW) threats.

CreoAir Pro meets the ongoing need for compact communications solutions adapted to smaller platforms, along with enhanced performance with regard to range, power, security and video transmission. The new CreoAir Pro merges all the advantages of its predecessors while delivering enhanced computational power and advanced algorithmic processing. CreoAir Pro is fully optimized for future Artificial Intelligence (AI)-driven operations, enabling dynamic spectrum allocation, real-time decision-making and cognitive networking. Its superior performance with expanded features now comes in a more lightweight and compact form too. With this minimal form factor and maximum flexibility, the new transceiver is ideal for multi-domain systems, from tactical UAVs to advanced autonomous systems and integrated battle networks. A notable new feature of the CreoAir Pro is its transition to open architecture, which enables shorter development cycles, easier integration with third-party systems, and improved customisation options for end users. This framework also allows for smoother and faster software updates, enhancing interoperability and adaptability to meet the dynamic needs of the modern battlefield.

"We are very proud to introduce this latest addition to our range of innovative CreoAir transceivers," said **Alex Shapochnik**, CEO of Creomagic. "We believe the advanced computational technology and superior SWaP-C provides an even greater offering for our clients, especially for unmanned aerial systems, while maintaining a competitive price point. Creomagic focuses on long-term partnerships in strategic markets to meet the growing global demand for locally produced equipment. Europe remains a key priority for our marketing and sales, where we aim to establish the right partnerships for joint production, development and tailored solutions," he concluded.

Creomagic develops and manufactures innovative communications solutions that form intelligent MANET, designed for mission-critical teams and tactical operations. The company's radio technology provides users with reliable, secure and resilient on-the-go communications networks for any mission. From manned and unmanned aerial networks to personal tactical radios for special forces and first responders, and unmanned ground solutions for robotics, Creomagic continues to develop advanced technologies to support the needs of its diverse client base. (str)



Smaller, smarter and more powerful:
With cognitive learning and enhanced computational power within a 30% smaller form factor, Creomagic Ltd. is optimising critical communications networks.
Photo: Creomagic Ltd.

Briefing

Commercially available drones pose a multi-spectrum threat

Securiton presents solutions for mobile, flexible and static use

Hall 7
Booth 548



◁ *Airspace surveillance is now vital as drones have become one of the most common technological airborne threats. Countering them is a tough job. (Photo: InPublicSafety.com/American Military University)*

SecuriDrone Companion at a glance

Weight: 4.5kg
Dimensions (WxHxD): 270x124x246cm
Frequency antenna: 2,400-2,500MHz, 5,150-5,875MHz
Detection time: <5 seconds
Detection range: up to 2,000m line of sight, depending on RF environment

– especially under adverse weather conditions – could pose extra risks. The company's solution on display at Enforce Tac 2025 is a 'tried-and-tested mobile drone hunter system – called SecuriDrone RF-Cyber Tactical. It offers 360-degree all-around coverage against drones from the outside. It can be used with autonomous control via the SecuriDrone App/Website or integration into the SecuriDrone Perimeter Management System.

Another solution on display in Nuremberg is called SecurDrone Companion. Continuous scanning enables the system to detect remote controls, pilots and drones immediately, even before they are in the air. Its battery life is up to 18 hours, according Securiton. The solution works fully autonomous and in any weather and environmental conditions. (str)

Drone defence is a global trend. Easy-to-control and readily available drones are becoming the tool of choice for those wishing to do harm. Counter-drone – or counter-UAS (C-UAS) – technologies are matter of interest for homeland security, police and even private security. In an attempt to stop such activities, we are witnessing a dramatic rise in the interest for counter-drone (or counter-UAV) solutions, as the potential threat ranges from mini-UAVs (mUAV, weighing less than 20kg) and small-UAVs (sUAV, weighing 20-150kg), to larger tactical (military) UAVs. The availability of small or miniaturized UAVs already causes security problems, as they already have interfered with routine airport operations, critical infrastructures, public events, either by careless misbehavior or for deliberate malevolence.

Securiton Germany, headquartered in Achern (State of Baden-Württemberg), underscores that the detection of small drones

SecuriDrone RF-Cyber Tactical at a glance

Weight and dimensions (WxHxD):
 12.8kg, 39x52x12cm (SDR); 14.5kg (SDR with antenna);
 30.0kg, 68x53x38cm (transport box SDR);
 12.0kg, 119x50x23cm (transport box Tripod)
Frequency range: 400MHz to 6GHz
Conformity and protection class: MIL STD 810H, MIL STD 461, IP66
Operating temperature: -30°C to +50°C
Directivity: Omnidirectional



SecuriDrone RF-Cyber Tactical offers a large detection range of up to 4,700m and a defence/takeover range of up to 4.200 metres. (Photos: Mönch Publishing/Stefan Nitschke)



Easy to carry: SecuriDrone Companion is a portable, mobile drone detection suite detecting drone threats within a radius of up to 2,000m as soon as they are switched on.

MBDA

ENFORCER WHEN IT COUNTS.

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Maximum precision, reliability and minimized weight

The Enforcer light shoulder-launched guided weapon system can be used to engage a broad variety of targets at ranges beyond the capability of currently available infantry weapons, including fast-moving vehicles and targets behind cover. Enforcer is under contract and ready when it counts.



ZARGES pitches new and proven containers for secure transport of electronics and ammunition

Hall 7
Booth 709



ZARGES container for munitions lifecycle monitoring at Enforce Tac 2025 in Nuremberg. All photos: Lutz Krieg

In October 2024, the German aluminum specialist **ZARGES** strengthened its collaboration with MBDA Deutschland, a key player in the European defence sector. This partnership aims to develop and deliver advanced transport and storage solutions, known as “Smart TSC” (Smart Transportation & Storage Containers). These innovative containers incorporate technology for wireless and radio-free data and energy transmission, enabling seamless integration with sensor systems. Their primary function is to provide comprehensive lifecycle monitoring for munitions, ensuring they meet the stringent logistical demands of defence and ammunition transportation.

The Smart TSCs utilize an innovative technology called Wireless Radio-Free Data and Energy Transmission (WRF), developed in collaboration with the Fraunhofer Institute for Photonic Microsystems (IPMS). This light-based system enables a wireless and radio-free connection between sensor-equipped transport and storage containers, as well as the munitions inside. This ensures that the Smart TSCs can be safely used in high-security and explosive-sensitive environments. A specially designed WRF reading device allows for energy transfer and data evaluation without opening the container, preserving the integrity and safety of its contents.

ZARGES’ aluminum containers provide the ideal foundation for this advanced technology due to their unique properties. Acting as a Faraday cage, these airtight and waterproof boxes block electromagnetic signals, making their contents undetectable by RFID scanners. They are also highly resistant to environmental conditions, feature a specialized decontaminable coating that absorbs infrared radiation, and include internal foam inserts for secure cushioning of munitions. These characteristics ensure maximum protection during both transportation and long-term storage.

This collaboration not only broadens ZARGES’ product range but also represents a major step forward in intelligent transport and storage solutions for the defense industry. By combining state-of-the-art sensor technology with durable and secure container designs, ZARGES and MBDA

Deutschland are establishing new benchmarks for the safe and efficient management of munitions throughout their lifecycle. ZARGES-Box has passed all tests and is currently the only manufacturer in the field supplying the German Armed Forces.

ZARGES MITRASET RACKLITE and Classic: premium protection for sensitive electronics

ZARGES offers MITRASET RACKLITE and MITRASET Classic – two advanced enclosures designed to safeguard sensitive electronic equipment. These rugged cases meet the demanding requirements of industries such as defence, aerospace, telecommunications and research.

MITRASET RACKLITE: lightweight and durable

The MITRASET RACKLITE series combines durability with reduced weight, making it ideal for mobile applications. Constructed from high-strength aluminum, it provides exceptional shock and vibration resistance, ensuring the protection of sensitive electronics even in challenging environments. The integrated 19-inch rack system allows for easy equipment installation, while custom shock absorption minimizes mechanical impact.

MITRASET Classic: maximum protection in extreme conditions

The MITRASET Classic is built for superior durability and shielding against electromagnetic interference (EMI). Designed to withstand extreme conditions, it features a sealed enclosure that protects against dust, moisture, and temperature fluctuations. Like the RACKLITE series, it accommodates 19-inch rack-mounted equipment and offers customizable interior configurations for optimal protection.

Both the MITRASET RACKLITE and MITRASET Classic are trusted worldwide for their lightweight, durable design, offering exceptional protection in the most demanding environments.

These enclosures are used by the German Armed Forces for various applications, including the protection of radio equipment and the German Mission Network (GMN). Their robust design ensures reliable protection for critical communications and network infrastructures, meeting the high standards required for military operations.



ZARGES MITRASET CLASSIC and RACKLITE enclosures for housing electronic devices at Enforce Tac 2025 in Nuremberg.



**ZARGES Battery Safes:
ultimate protection for sensitive energy storage**

ZARGES offers a range of battery safes specifically designed for the secure storage and transportation of lithium-ion and other high-energy batteries. These specialized safes provide enhanced safety features, protecting against potential fire, explosion, and other safety risks associated with energy storage systems.

Built from high-strength aluminum, ZARGES battery safes are constructed to offer exceptional protection in extreme conditions, including fire-resistant materials, secure locking mechanisms, and advanced ventilation systems to safely dissipate heat. The containers are also designed to contain any flammable gases or liquids in the event of a battery failure, preventing the spread of fire or hazardous materials.

These battery safes are widely used in applications where battery safety is critical, including telecommunications, military and renewable energy sectors. Whether for short-term storage or transportation, ZARGES' battery safes provide peace of mind by meeting the highest standards of safety, making them the ideal choice for managing high-energy batteries securely.

**ZARGES develops specialized containers
in collaboration with the German Armed Forces**

ZARGES has partnered with the German Armed Forces to develop specialized containers tailored to meet the rigorous demands of military operations. These advanced enclosures are designed to securely store and transport sensitive equipment, including munitions, electronic devices and communications systems. ZARGES' containers provide exceptional protection against environmental factors such as moisture, vibrations, and electromagnetic interference (EMI), ensuring the safety and functionality of critical military assets. The collaboration emphasizes durability, reliability, and cutting-edge technology, with ZARGES

delivering innovative solutions that support the Bundeswehr's mission requirements. With this partnership, ZARGES continues to play a crucial role in enhancing the logistical efficiency and security of military operations. (Ik)



**A collaboration with the German Armed Forces.
A Base for the armorer's toolbox: special tools can be individually
configured and organized, for example, by weapon group.**

People Talk

Thermal imaging devices at their best

Andres Industries AG

our partners

NIGHT

TELED

Teledyne F

micro

ORVUS

DEFENSIO

ERATA

Dr. Björn Andres,
CEO of Andres Industries AG:

„We are actively involved in a bidding process for thermal imaging devices for the German Armed Forces.“



◁ *The PumIR was developed for official users such as the Police and Military, where the device can be mounted directly on firearms (STANAG rail); it can be used as a clip-on and standalone device with a detection range of up to 4,000 metres. AI upscaling is an option. Dimensions: length 75mm, width 75mm, height: 23mm, weight 220 grams without adapter plate (23 grams) (Photos: Andres Industries AG)*

- TigIR: a state-of-the-art clip-on thermal imaging device, renowned for its precision and reliability.

New strategic partnership agreed: Andres Industries AG and **Microoled SAS** will join forces to strengthen their position in Europe and beyond. The two high-tech companies announced their joint participation at Enforce Tac 2025, reinforcing their long-standing strategic partnership. This collaboration between two leading European technology companies underscores their commitment to innovation in thermal imaging and high-performance visual display solutions.

Alongside these advanced solutions, attendees at Enforce Tac will be able to experience Microoled SAS's state-of-the-art micro-displays, which play a vital role in enhancing the performance of these devices. Known for their exceptional resolution, low power consumption and unmatched image clarity, Microoled's OLED micro-displays provide professionals with unparalleled visual precision.

A strong European collaboration: "Our collaboration with Microoled SAS has been a key factor in the success and innovation of our thermal imaging solutions," said CEO **Dr. Björn Andres**. "By integrating Microoled's state-of-the-art micro-displays, we are able to offer products that meet the most demanding requirements of our professional customers," he added. For Microoled SAS, this partnership exemplifies the power of strategic alliances in advancing technology. **Eric Marcellin-Dibon**, CEO of Microoled SAS, emphasized: "Working closely with Andres Industries AG allows us to apply our advanced display technologies in highly specialized applications. This collaboration demonstrates the power of European innovation in delivering world-class solutions." Headquartered in Grenoble, France, MICROOLED designs and manufactures OLED microdisplays for near-eye applications, including cameras, virtual reality glasses, medical equipment and thermal cameras. As the leading player in Europe and the second largest globally in its field, Microoled is also pioneering augmented reality solutions through ActiveLook®, which is currently integrated into eyewear brands such as Julbo, Cosmo Connected and Engo. (stn)

Andres Industries AG positioned itself as a technology leader in the field of thermal imaging devices in Europe. For instance, the Czech Armed Forces contracted the company for the supply of the TigIR-M Clip-on device, all of which forming part of a follow-on delivery. The device is being used in combination with the FN Minimi 762 light machine gun. Based in Berlin, Andres Industries AG is a recognized technology leader in the development and production of high-performance thermal imaging devices. Known for their rugged design and compact size, these solutions are trusted by professionals worldwide in the most demanding environments.

At Enforce Tac, visitors have the opportunity to explore Andres Industries' flagship products that are all recognised for their compact size, durability and superior performance in critical environments:

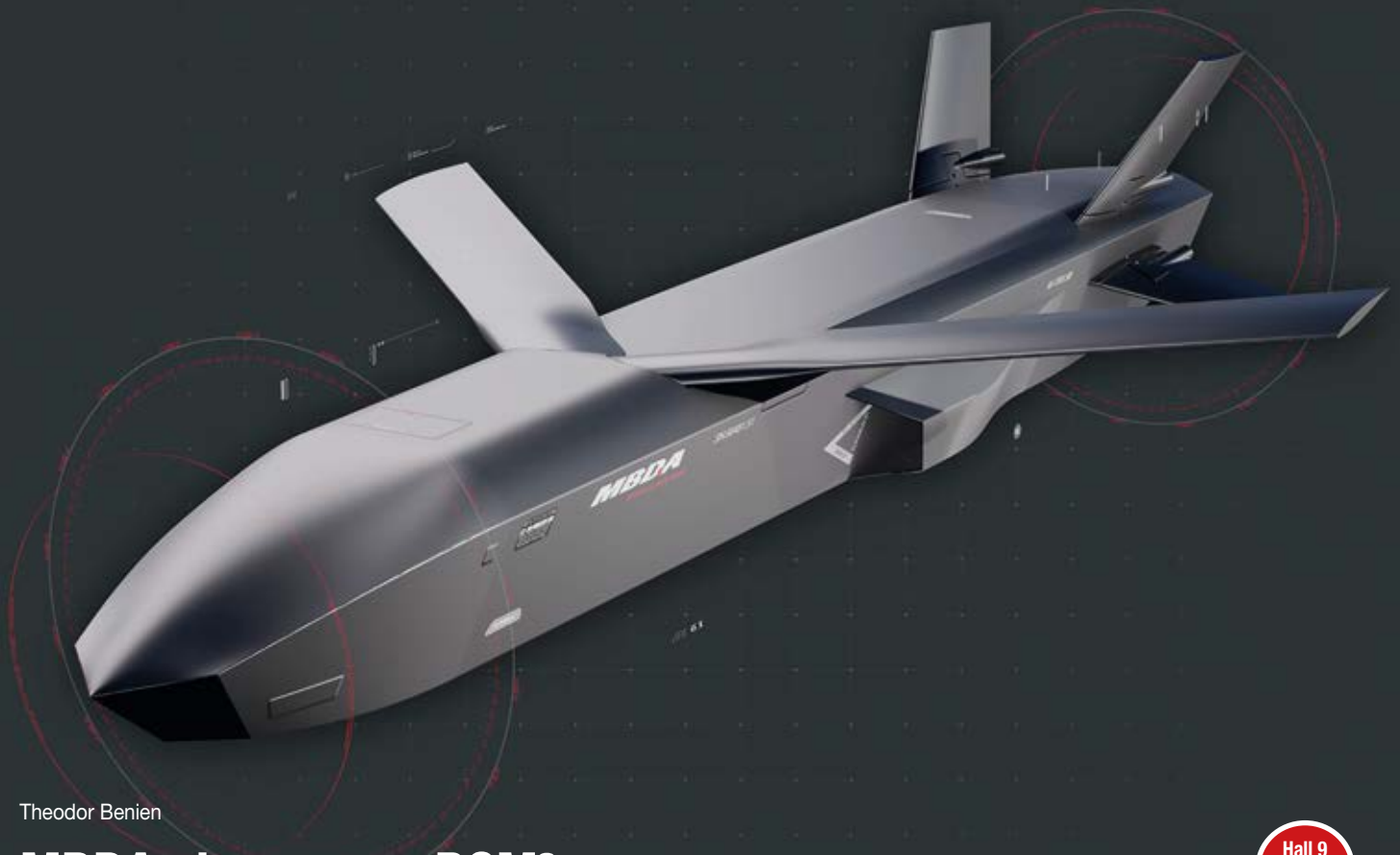
- PumIR: a versatile and compact thermal imaging solution tailored for diverse operational needs. With the Flip-2Side, PumIR is the first device that can be folded out of the field-of-view (FOW) within a second despite its powerful 36mm optics.
- TILO: the world's smallest thermal imaging goggles, combining high performance with exceptional ergonomics; the device has also been ordered by the Czech Armed Forces.



TILO stands for Thermal Imaging Light Optic and was developed as a thermal imaging goggle; with a length of 4-6cm and a weight of 100-150 grams, it is the smallest and lightest thermal imaging goggle in the world.



The TigIR series offers the shortest thermal imaging attachments currently available with 55mm optics and a detection range of 3,000 metres. Pictured is the TigIR-Z15 with a weight of around 527 grams.



Theodor Benien

MBDA showcases RCM² for the first time at Enforce Tac

Hall 9
Booth 338

The company presents its latest defence systems and technological expertise

MBDA Deutschland decided to present its battlefield engagement solutions and demonstrate its expertise to meet potential challenges of the future. MBDA's highlights at Enforce Tac 2025 are the Multidomain Multirole Remote Carrier (RCM²), the mobile land-based laser weapon system MILOS-D and its product line for the defence of drones, infantry and armored vehicles, the Small Anti Drone Missile, the Enforcer and PARM NextGen.

RCM²

MBDA will exhibit the new RCM² concept for the first time in the land domain during this year's Enforce Tac. RCM² is a tactical, modular and communicating remote carrier for land, air and sea operations. It can be used as a kinetic and electromagnetic effector. Customers can also use them in a mission-based effector network with high survivability in heavily defended operational areas. They can also be used from platforms such as combat and transport aircraft, frigates and land vehicles such as EuroPULS from the well-known tank manufacturer KNDS.

The missile maker, based in Schrobenhausen, presented the future multi-domain, role-based RCM² also during the Berlin Air Show (ILA) in June 2024. Compared to systems available on the market, the RCM² can operate in a mission-based effector network in heavily contested or

defended operational areas, thereby increasing operational assertiveness. The RCM² developed by MBDA Deutschland is designed for a wide range of applications as well as for combat mass.

RCM² also has a loitering capability and can attack targets in environments without reception of a Global Positioning System (GPS). The interactive command and handover of the missile swarms can in principle be carried out by any operator integrated into the network. The platform from which RCM² is launched and the domain through which it is directed is flexible and can be adapted to operational requirements. This approach allows the remote carrier to be used across all branches of the Armed Forces. MBDA's engineers have set themselves an ambitious target: In a next step, the RCM² shall be able to acquire sensor-based reconnaissance and target data thus providing real-time situational images.

Mobile land-based laser weapon system MILOS-D

The performance of the mobile land-based laser weapon system MILOS-D has been demonstrated for the first time in 2024 as part of the "Experimental Series Land" on a military training area in a tactical ground operation. The applicability was considered from a mainly operational perspective. Target spectrum of MILOS-D comprises wire barriers, mines, door locks and Improvised Explosive Devices (IEDs). MBDA's current focus from a mainly operational focus is on increasing performance

◁ **The new Multidomain Multirole Remote Carrier (RCM²) concept is exhibited for the first time in the land domain here at Enforce Tac 2025.**
Photo: MBDA Deutschland

through improved laser sources and algorithms for target detection and tracking as well as further weight reduction. Next goals of the missile manufacturer are the fight of moving targets (e.g. drones) and the development for Unmanned Land Vehicles (UGVs).

MBDA Deutschland is convinced that MILOS-D will become a great success: “There is great interest in small and portable laser effectors. With MILOS-D, we developed a prototype of a mobile portable laser especially for army and police applications,” says a MBDA spokesperson. The prototype has proven that it can disrupt or even neutralize sensors within seconds.

New capabilities against drones, infantry and armoured vehicles

Infantry and armoured vehicles are well-known threats in the traditional battlefields. However, small and medium-sized drones have become a new challenge in future battlefields, especially when drones are attacking in overwhelming quantities during swarming missions. Therefore, MBDA Deutschland developed the Small Anti Drone Missile which will be able to master especially the challenges of UAS swarming.

However, effective protection against drones can only be ensured in combination with several other factors. For instance: lethal effect within an adequate distance, multi-target engagement with high agility, and high accuracy against small and medium-sized drones. These are just some of the operational capabilities of the Small Anti Drone Missile. In addition, the “Design-to-Cost” approach was consistently implemented, which enables a favourable cost-ratio between the spectrum of threats and the missile. Combined with other effector systems, such as Rheinmetall’s Skyranger 30, this results in complementary range combinations that are extremely useful in real operations. To close the existing capability gaps in mobile defence against drones at short range, Rheinmetall Electronics and MBDA Deutschland signed a corresponding Letter of Intent (LoI) at ILA 2024. The companies intend to integrate MBDA’s Small Anti Drone Missile into the Skyranger 30.



The Enforcer family has been designed for defence against unarmoured or lightly armoured vehicles, mobile and stationary targets.

Photo: MBDA Deutschland

High demand for the Enforcer

MBDA’s Enforcer family has been designed for defence against unarmoured or lightly armoured vehicles, mobile and stationary targets as well as targets in covered or partially covered positions and in infrastructure. Analysts have also identified a growing demand for Enforcer X – a new variant for anti-tank defence. The European company with roots in Bavaria developed Enforcer in response to the operational experiences of the German Armed Forces and allied nations. Dismounted troops lacked a precise and lightweight effector against covert positions and lightly armoured moving targets at ranges up to 2,000 metres. With Enforcer X, MBDA can now offer an anti-tank variant of the guided missile, which can be considered as a light anti-tank weapon. Unlike Enforcer, which has a multi-effect warhead with a selectable fuze, Enforcer X will have a tandem shaped charge warhead, enabling it to engage heavily armoured vehicles and those equipped with third-generation reactive protection.

PARM NextGen and PARM DM22 will complement each other

PARM NextGen is an intelligent 3rd generation anti-tank mine with remote control and state-of-the-art sensor technology for defence against armoured vehicles. PARM NextGen will be part of a product family in which PARM NextGen and PARM DM22 complement each other.

What is the background for this development? The answer is linked with the customers’ operational needs. Member states of NATO and the EU have recognised that they must protect their borders against aggressors. Developed as an anti-tank weapon system for the Cold War, PARM has proven to be a reliable and effective weapon against state-of-the-art Main Battle Tanks (MBTs). This is one of the reasons why MBDA’s subsidiary TDW GmbH received a new order to manufacture 2,600 PARM for the German Armed Forces.

A few more facts at the end: The current optical cable will be replaced by a variety of sensors. PARM NextGen has a sensor that can distinguish the range of the target and can be remote-controlled by encrypted radio signal, allowing its operator to activate and deactivate the weapon. A key design goal of the PARM NextGen was to keep the unit cost down by trying to achieve as much commonality with the original PARM and by sourcing its additional modules from among those already on the market.

Dr. Theodor Benien is a frequent contributor to the Mönch Publishing Group.

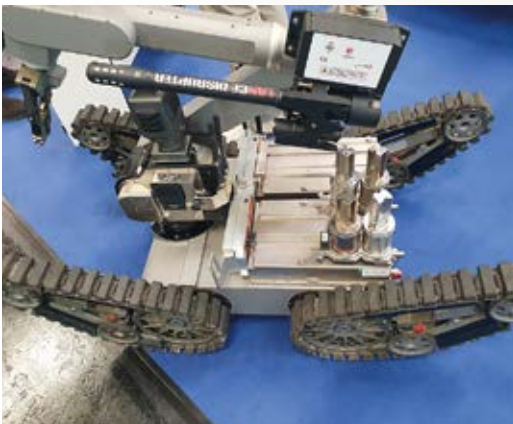


With MILOS-D, the MBDA engineers developed a laboratory prototype of a small portable laser especially for the army and police.
Photo: MBDA Deutschland

Recap Enforce Tac 24 February 2025



Photos: stn



roda computer brings robust IT equipment to the the mud zone



◀ *The RC2143 drone controller from MilDef (pictured with Panther DS13) controls conventional and military drones on the ground and in the air. Photo: roda computer*

Modern armed forces have long been dependent on reliable communications, data processing and control systems in addition to traditional military equipment such as compasses and weapons. The closer you get to the so-called mud zone, the less the capabilities of civilian hardware meet military requirements. With the FZ-40 Tactical, **roda computer** headquartered in Lichtenau (State of Baden-Württemberg), showcases a laptop with an Intel® Core™ Ultra 7 processor at Enforce Tac, which continues to perform without restriction even under the harshest conditions. The robust device manufactured by **Panasonic** as the Toughbook 40 forms the series-produced basis of the FZ-40 Tactical and is equipped by roda computer with military connectors as specified by the respective user. The FZ-40 Tactical thus combines the latest developments from the civilian IT sector with a high degree of robustness and adaptability required by the military, which the German Armed Forces, among others, have often come to appreciate as a reference customer. In order to ensure

generic robot controllers that are based on the compact roda Panther DS13 tablet and encapsulate them to control unmanned ground vehicles (UGVs) or unmanned aerial vehicles (UAVs). This provides drone operators in the field with a universal solution that works reliably even in the harshest conditions down to -20° Celsius.

With these systems, the selection from roda computer's product portfolio on display at this year's Enforce Tac meets the challenges faced by military units in modern conflicts. In this respect, the trade visitors to roda computer will have the opportunity to experience a combination of new technical approaches and proven hardware protection concepts.

roda computer is a leading provider of rugged IT and electronics solutions in the security and defense sector. For over 35 years, roda has been a reliable partner for the development, modification and delivery of military computers, displays, servers, networks and communications technology, as well as uninterruptible power supplies. (stn)



The robust Toughbook 40 is specially modified by roda computer to meet the needs of military customers. Photo: roda computer



The T.A.D. is a reliable companion in tough operations and can be easily integrated into the customer's IT environment thanks to its open system architecture. Photos: MilDef

Hall 7
Booth 426

FLIR showcases solutions ‘designed for the heat of the action’

In Nuremberg, **FLIR**, a **Teledyne Technology** company, presents its latest thermal monocular solutions for law enforcement agencies, police forces, border guards and military distributors. The main focus of the FLIR booth will be its brand-new Scout Pro thermal monocular – the next-generation handheld device designed for frontline law enforcement and public safety professionals operating in challenging rural terrains or unpredictable urban environments.

Developed in partnership with law enforcement officers, the Scout Pro offers 640 x 480 thermal resolution for clear, high-quality imaging in low-light or no-light conditions. Providing up to eight-times zoom, the monocular is ideal for both urban and rural environments, including open spaces, for the accurate detection, tracking and identification of moving targets. Notably, Scout Pro features a reimagined user interface (UI) that improves upon previous-generation FLIR monoculars. By eliminating overlaid menus and settings, the new UI provides a continuous, unobstructed view of the target. Paired with the Scout Pro mobile app, users can take advantage of wireless remote observation and surveillance – perfect for covert operations where every second counts. From a single app, teams can collaborate and boost tactical efficiency in real time through live video streaming, instant media sharing and seamless content transfers. Ultimately, the law enforcement and defence sectors require high-quality, reliable, easy-to-use thermal imaging tools. By providing a clearer view in dark and low-visibility conditions, the next-generation Scout Pro enables users to protect and serve with confidence.

Another innovation on display is the FLIR Breach PTQ 136 multifunctional thermal imaging monocular. Presented as an attachment to a helmet



The Scout Pro on display in Nuremberg offers 640 x 480 thermal resolution for clear, high-quality imaging in low-light or no-light conditions.

Photo: FLIR

worn by a mannequin, those calling by the booth can discover how this advanced thermal monocular delivers that all-important ‘sixth sense’ by identifying the heat of suspects and objects in complete darkness. The 60 Hz Breach PTQ 136 features FLIR’s Boson thermal core for advanced image processing, while a bright high-definition display delivers excellent image clarity and enhanced detection. The internal memory can store up to 1,000 images and 2.5 hours of video.

FLIR has two speakers present on its booth for those wishing to learn more about the various innovations and how they can help frontline heroes succeed in high-stake environments and time-critical situations: **Benjamin Mortlock**, Team Lead Fire & PVS (Portable Visual Search) EMEA, and **Peter Dekkers**, Director Business Development First Responders. (stn)

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Capability Report – Digitisation is driving modernisation

Hall 9
Booth 541

Modernization of soldier systems is a top priority for international armed forces. Increasing digitisation requires uniform standards to seamlessly network soldiers. This allows efficient control of forces and successful mission execution – even under unpredictable conditions in the field. Portable electronics, networked devices and miniaturisation place high demands on manufacturers: weight, energy efficiency and interoperability must be optimally coordinated. At the same time, geopolitical developments and ethical questions demand responsible and sustainable solutions.

ODU offers specialized connectors for military and security technology. The company's solutions combine robustness and flexibility with outstanding performance. They ensure reliable connections of portable systems to PDUs and provide precise data transmission. Miniaturized connectors are ideal for portable communication systems or mobile optronics for target and environment detection.

Requirements for the connection of electronic devices: Electronic devices require a power supply, data integrity from the sensors and the optical systems is critical. Most devices, whether worn by the soldier or installed in the ground combat stations or vehicles, have a wired transmission, as it is less susceptible to manipulation. Portable systems can be powered via an integrated battery, but connecting an external battery offers many advantages:

- Extended service life due to increased battery capacity
- Better ergonomics due to adjustable weight distribution
- Easy battery replacement

Imaging in military optronics is based on data from infrared (IR), ultraviolet (UV), or X-ray sensors in addition to conventional video capture. As an alternative to fibre-optic technology, coaxial cables in particular offer

the necessary prerequisites and in addition to a high bandwidth capacity, ensure good shielding against external electromagnetic interference. Compared to fiber optic contacts, they have significantly lower maintenance costs.

Advantages of hybrid interfaces: The combination of power and data transmission in a hybrid cable requires connectors and cables that are adapted to the requirements and still offer high performance. Integration allows for a more compact installation space and can lead to overall cost savings. The advantages to the operator are:

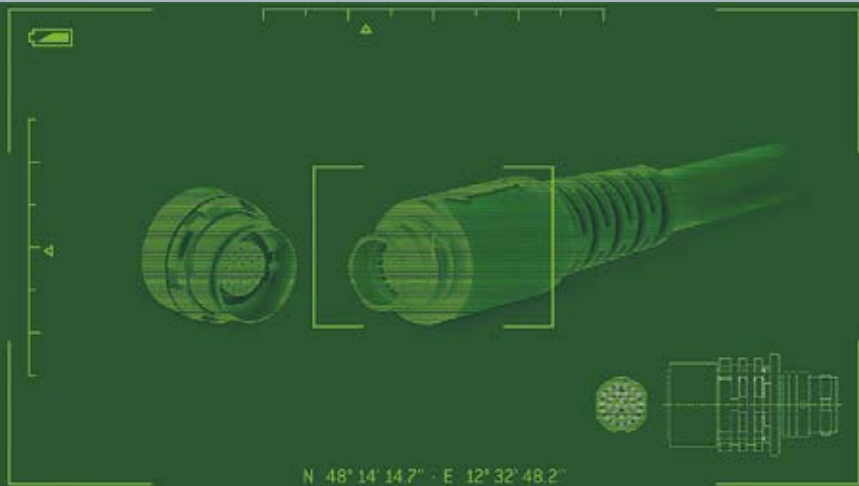
- Increased mobility and convenience due to a reduced number of cables and interfaces
- Increased reliability, as fewer interfaces reduce the risk of cable breakage and connection errors due to damage
- Faster operational readiness thanks to less effort when putting on and taking off equipment
- Easier maintenance and repair: a reduced number of potential sources of error simplifies troubleshooting and repair (this reduces maintenance costs and increases the lifetime of the equipment)

The integration of hybrid cables in portable systems is possible, for example, using a hybrid connector such as the ODU AMC® High-Density (HD). The connection solution, specially optimized for military applications, enables the combination of power and data transmission with an outer diameter of only 12.8 millimeters. The combination with polyurethane (PUR) sheathed hybrid cables is a good way to make optimal use of the connector's potential. The thermoplastic elastomer (TPE) is characterised by its high tear, notch, and abrasion resistance, as well as its particular resistance to liquids such as oils, petrol and solvents. ODU has a wide range of standard products and supplies complete, tested ready-made assemblies.

The use of highly advanced optronics places special demands on device manufacturers. The power supply and connection of military equipment to existing systems can be solved by specialized connections, whereby different dimensions and technologies are used. Hybrid solutions such as the ODU AMC HD connector with matching PUR cables offer considerable added value for integrators and end users by reducing the number of interfaces. (str)

The ODU AMC® series offers high-speed data transmission with up to 70% less weight compared to conventional solutions.

Photos: ODU



Analysis

Indefinite risks: how to use cyber intel for security



Anticipating the worst: because there will be more 'stealth' attacks in the future, defences will require completely new mechanisms in place to alert IT administrators and take down a threat before it spreads too far. In the end, computer forensics are the only way of investigating and prosecuting cyberattacks.

Photo: Norse

Cyberattacks over recent years have triggered new requirements for cyber intelligence, including cyber counter-intelligence. Cyber security experts in Europe warned that there is a general lack of information on what cyber intelligence is and how to appropriately use it. Also concerned about recent Russian cyberattacks on election campaigns in the West, security organisations across Europe found that the use of intelligence, to collect, process, integrate, evaluate, analyse and interpret available information concerning foreign nations, hostile or potentially hostile forces or elements, or areas of actual or potential operations, is a vital ingredient of cyber defence. Cyber intelligence – and digital forensics – are expected to help enable the rapid detection of advanced cyberattacks, thus improving the incident response process.

From 2014 (the year of Russia's annexation of Crimea) to 2024, the number of reported breaches just on governmental computer networks across Europe (and principally in the Nordic countries) were increasing up to 15.5 percent. In February 2022 (when Russia's "Special Military Operation" was launched against Ukraine), European security authorities were forced to respond to a total of 108,000 cyber incidents involving federal agencies, companies that run critical infrastructure and contract partners, which is more than double the incidents in 2014.

"Upon detecting a cyberattack, some incident responders understandably rush to contain and remediate it," said Lance James, Head of CYBINT at Deloitte & Touche LLP. He added, "But in their haste, they may destroy or compromise evidence that could help investigators identify

how hackers penetrated their systems or malware got on the network, and assist law enforcement in prosecuting the crime."

The professional services firm also agrees that preserving evidence should be the incident response team's first priority, copying hard drives, network data and operating system logs with the goal of creating a snapshot of the computing environment as it existed at the time of the attack. Once the preservation process is finished, the organisation can begin remediating, and a forensics team can continue its investigation without interference.

The use of Cyber Intelligence (CYBINT), like all the other specific disciplines in intelligence – HUMINT (Human Intelligence), OSINT (Open Source Intelligence), SIGINT (Signals Intelligence), GEOINT (Geospatial Intelligence) and MASINT (Measurement and Signature Intelligence) – can be the first step to understand the nature of cyberattacks, and to preserve evidence of cybercrime.

Reports were received during the COVID-19 pandemic that large governmental agencies and corporations anywhere in the world are struggling against an onslaught of cyberattacks by thieves, hostile states and hackers, creating extra challenges for cybercrime intelligence activities. Reports analysed from Finland and Sweden show how easy it is for hackers to get into governmental and industry-operated networks. One recent report warned that one military user received messages that his computer was infected when he visited a website about schools. Officials tracked the attacker to what appeared to be a Germany-based server.

(stn)

No-Look capability! CeoTronics keeps an eye on the situation – everywhere

Hall 7A
Booth 217



◁ **“No-Look capability”:**
communications equipment needs to “hold up” even under atrocious conditions and continue to function even if Police and Special Operations Forces personnel are working in extremely hazardous environments. This makes CeoTronics’ unique communications solution a widely sought equipment as required for mission-critical communication. (Photos: CeoTronics AG)

- Additional function buttons on the side – easily tactile pressure point with no overlapping function assignments

The highly specialized PTT operating units have been successfully used by Police and defence forces, such as the German Armed Forces, for years. With the unique CT-ComLink® technology and their intuitive “No-Look” operability, they ensure safe and effective communication. This makes every CT-MultiPTT the intelligent heart of the overall system.

For more than 35 years, CeoTronics has developed and produced innovative communications systems for demanding environmental and operating conditions. The company is the leading manufacturer of multifunctional operating and control units (CT-MultiPTT), mobile digital radio networks and terminals (CT-DECT), as well as high-quality communications headsets and systems for professional use. (str)

Complex mission situations require innovative and flexible communications systems. In doing so, **CeoTronics AG** is presenting the latest development stage of its flagship CT-MultiPTT 3C at Enforce Tac this year in Nuremberg. The central operating and control unit can be connected to both analogue and digital sources (radios, tactical hubs, smartphones, intercoms). CeoTronics is the first manufacturer to bridge the gap between the two worlds, offering a unique level of flexibility compared to the competition. The “No-Look” operability makes an important contribution to this. Without being distracted from the main event, Police and defence forces retain maximum control over their communication, even if they have to navigate through different communications circuits. This is made possible by the multifunctional CT-MultiPTTs, which offer a wide variety of innovative features, including:

- Large 20cm² primary circuit PTT button – reliable operation even in darkness and with heavy gloves and in the dark
- Two rotary controls with guide grooves – haptic feedback plus dual-level navigation for basic settings and operational functions (CT-MultiPTT 3C)
- Voice menu – CT-VoiceMenu with acoustic feedback and voice prompts



The CT-MultiPTT 3C is a central operation and control unit that can simultaneously coordinate three independent communications circuits. (Photo: Mönch Publishing/Stefan Nitschke)

MY6: ballistic eye protection for the most demanding environments



Hall 7
Booth 829

*The MY6 complies with the EN166 standard, thus offering optimal safety in all situations.
Photo: Bollé Safety*

Bollé Safety, one of the world's leading manufacturers of personal eye protection equipment, announces the launch of a new model of safety glasses designed for emergency personnel working in high-risk environments, such as the military, special forces and law enforcement. With the innovative MY6 ballistic safety glasses, Bollé Safety is not only expanding its existing tactical range, but is also launching a new top-of-the-range model. The safety glasses offer the highest performance and meet the constantly evolving needs of the industry: different lens tints; platinum coating; compatibility with other equipment; and optimal

vision in different environments. The new product on display at Enforce Tac is designed to protecting the eyesight of the men and women who ensure public safety and offering them maximum resistance during their missions. The MY6 eyewear is certified to the highest ballistic standards and meets the most stringent requirements of international military standards such as MIL (US military standards) and STANAG (military standards recognised in NATO countries). These certifications guarantee the highest level of ballistic resistance and offer the ultimate protection for the wearer's eyes. (str)



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**State-of-the-art technology you can touch –
Elbit Systems Deutschland showcases innovations
for police and military forces at Enforce Tac**



SmarTrack informs every soldier about the current location of the members of his unit in the vicinity, independently of GNSS. All photos: Elbit Systems Deutschland

Elbit Systems Deutschland once again is presenting its latest innovations and developments to a broad audience of international security specialists in five exhibition halls at Enforce Tac instead of the previous three. This year, the experts from Ulm will be presenting a system that is suitable for widespread use in the armed forces and is therefore likely to attract increased interest: SmarTrack, a multi-purpose **soldier tracking device** (Blue Force Tracking) for environments in which GNSS is either unavailable or subject to interference. The device is ideal for use with infantry forces, special forces and first responders. SmarTrack increases the safety and operational effectiveness of dismounted units on the battlefield by informing each soldier of the current location of nearby unit members with high accuracy.

The device can be used in various operational environments, both indoors and outdoors, and can serve as a radio data-link to facilitate communication and the transmission of command-and-control (C2) data between a minimum of four and a maximum of 100 users. The solution has a high-frequency transceiver for high-precision positioning using a broadband signal that also enables operation in environments with insufficient radio communication.

In 2025, Elbit Systems Deutschland is still focusing on drone applications and **drone defence**, among other things. In particular, the ReDrone system on show in Nuremberg can score points across the board here, as it is suitable for the stationary or mobile protection of both civilian events and critical infrastructure, as well as for the reliable protection of military camps, convoys, high-value targets and much more. In addition,



The White Owl system detects and localises grenade and rocket launches even at night, using an infrared camera.



◁ **The PDJS portable ReDrone version protects a radius of up to 1,000m from the threat of drones.**

the company presents its new Portable Detection & Jamming System (PDJS), which was specially developed for the effective protection of smaller, highly mobile combat groups, for the first time at a domestic trade fair. The portable system creates an electromagnetic dome with a low signature in the vicinity of the group, within which approaching drones can be detected and control signals efficiently jammed.

The **reconnaissance domain** is also the focus of the new White Owl, a launch detection system on display in Nuremberg, which uses electro-optical technology to detect airborne launches of MANPADS, mortars, artillery and the like, regardless of the time of day and weather, and provides the position data in real time. This increases situational awareness and enables countermeasures to be initiated quickly. It makes no difference whether White Owl, which weighs just under 700 grams, is integrated on a drone, an airplane or a helicopter.

In addition to the examples described and illustrated here, Elbit Systems Deutschland showcases other products available on the market at Enforce Tac, including drone defence, electro-optics and communication for police forces and the military, which have already proven their worth many times over internationally. (str)

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Thermal imaging devices at their best

Hall 7A
Booth 319

- ◁ **Left:** The VX-6HD Gen 2 line impresses not only with a better lens coating, but also with the new ballistic turrets for elevation and windage adjustment that can be adjusted without tools.
- ▽ **Right:** The Freedom RDS red dot sight is now available in a new version with the Leupold CDS ballistic turret. While the standard turret supplied has a 1/4 MOA adjustment (7,25mm at 100m per click), a ballistic turret cap engraved according to customer cartridge data is included in the purchase price.

Photos: Leupold



US optics manufacturer **Leupold**, which was founded over 117 years ago by a German and a Polish emigrant, has some interesting new products this year. First and foremost is the second-generation of the flagship VX-6HD Gen 2 line which is available with the ingeniously simple and fast Leupold CDS ballistic system (two turrets engraved according to your own cartridge data are now included in the purchase price). The elevation and windage adjustment mechanism has been adopted from the Mark 5HD competition scope, resulting in more adjustment range, better tactility and outstanding accuracy. In addition, the removable zoom quick-adjustment lever, also from the Mark 5, is extremely robust and leaves more space to the bolt handle. In addition to the familiar 1-6x24, 2-12x42, 3-18x44, 3-18x40 and 4-24x52 models, there is now a new 3-18x56 which should be of particular interest to Europe.

There is also a second generation for the SX-4 PRO GUIDE HD Gen 2 and SX-2 ALPINE HD Gen 2 spotting scopes. The upgrade includes an optimised lens coating for significantly improved optical performance,

interchangeable eyecups in three variants: flat, medium-high and with lateral glare protection. The spotting scope base with standard threaded base is now designed as a fixed Arca Swiss plate and can be mounted directly on corresponding tripods without an intermediate plate. (str)



Left:
The SX-4 PRO GUIDE HD Gen 2 is available in 15-45x65 and 20-60x80 with either angled or straight, oversized eyepiece for long, fatigue-free observation.

Right:
The SX-2 ALPINE HD Gen 2 in 20-60x60 and 20-60x80 come both with an angled eyepiece.

Considering the variety of potential unmanned threats and scenarios, C-UAV (or C-UAS) technologies are matter of interest for armed forces, homeland security, police and even private security, as the growing use and availability of commercially available drones is raising concerns among defence, security and law enforcement leaders.

Photo: Mönch Publishing



Know what's coming! Keeping an eagle eye of drones

Now more than ever, it is a critical aspect of a security plan, providing more comprehensive protection from terrorists, vandals, protestors and disruptors using commercial unmanned aerial vehicles or drones. US company **DroneShield** approached Enforce Tac 2025 with its DroneGun Mk4 – a ruggedized handheld countermeasure for defeating a wide spectrum of Unmanned Aircraft Systems (UAS). On display in Nuremberg, the device is highly effective against the spectrum of both commercial and military drones threatening high-value targets. The product solution disrupts the control, navigation and video of multiple drones simultaneously. In addition, the device has the optional capability of disrupting six of the



Available with improved pistol grip:
the DroneGun Mk4 is a handheld C-UAS effector providing users with a compact, rapid response countermeasure capability.
Photo: Mönch Publishing/Stefan Nitschke

Technical Features – DroneGun Mk4 ruggedized handheld countermeasure

Effective range: up to 1,000m

Operating time: >1 hour (active disruption)

Start-up time: <3 seconds

Effective frequencies: 2.4GHz, 5.8GHz ISM, 1.2GHz, 915MHz, 422MHz, GNSS (GPS(L1/2), GLONASS, BeiDou, Galileo, NavIC, QZSS)

Operating modes: individual bands mode; individual bands mode with GNSS disruption; all bands mode; all bands mode with GNSS disruption

Weight: 3.2kg

Battery: NATO-standard military-grade

Chemistry: rechargeable lithium-ion battery

Nominal voltage: 10.8V

Compatibility: PRC-152 and PRC-163 batteries

Operating temperature: tested to -32°C to +55°C

Ingress protection: rated to IP67

primary GNSS constellations (GPS, GLONASS, Galileo, BeiDou, NavIC, QZSS). The DroneGun Mk4 optimizes power from the NATO-standard battery, delivering increased disruption range and effectiveness.

One aspect was read in the newspapers in recent years: miniature drones are becoming an airborne headache for prison wardens as they are increasingly being used to smuggle contraband, cell phones and weapons into prisons. As these tiny remote controlled vehicles drop in price and become more capable of carrying heavier payloads, authorities fear they could be the smuggler's new favourite 'courier'. Here, alerting devices can provide advance notice of drones commonly used by criminals. For this new scenario, DroneShield developed a tiny device that can be mounted near exterior and interior perimeters. It sends alerts via email or SMS to a 24/7 monitoring service that works with police and legal response teams. Data is preserved for subsequent legal proceedings. The acoustic detection technology designed by DroneShield results in high detection rates with low false alarms, and is able to detect drones without radio frequency (RF) links or that are invisible to radar, as most of them are small plastic drones. Each system contains a database of common drone acoustic signatures; so, false alarms are reduced and in many cases the type of drone is also included in the alert. According to DroneShield, depending on the type of drone, the device can detect an incoming drone from up to 150m away. "If that includes weapons that could really raise security issues." (str)

FUJIFILM unveils advanced remote surveillance solutions

Hall 9
Booth 604

FUJIFILM is exhibiting at the Enforce Tac security and defence trade show in Nuremberg. As a leading provider of optical solutions, FUJIFILM presents its unique **FUJINON SX Series** of camera systems for long-range surveillance.

The **FUJIFILM SX1600** is a complete camera system featuring a **FUJINON 40x zoom lens** with a focal length range from 40mm in wide-angle to 1,600mm in telephoto. It also includes an advanced image stabilization system and fast, precise autofocus to capture distant subjects clearly and immediately.

Thanks to these specifications, the SX1600 is ideal for a wide range of applications, including the surveillance of **international borders, forests**, and large public facilities like **airports, ports**, highways, and remote inspections of infrastructure such as **wind turbines** and **transmission cables**. For example, the system can capture a vehicle's license plate at up to 1.6 km or even identify a person at around 3.5 kilometres.

Expert partners from the security and defence industry

As in previous years, FUJIFILM is collaborating with specialized partners to offer turnkey surveillance systems that include cameras, housings and pan-and-tilt systems for easy outdoor installation. Visitors to the



◁ **For long-range operations:**
longe-range low-light camera PTZ-SX1600 Platon.
Photos: Lutz Krieg

FUJIFILM booth at Enforce Tac can explore solutions specifically developed for the **FUJINON SX Series**.

Hevi Optronics showcases its **HeviTrack-SX**, an electro-optical surveillance system with extended range for coastal monitoring, border protection and other surveillance applications.

Davis Data and **Video Systems GmbH** presents its mobile surveillance systems based on the **FUJINON SX**, the **PTZ-SX800 Platon** and **PTZ-SX1600 Platon**, designed for long-range operations.

Wiseled will unveils its new, enhanced and rugged **Falcon searchlight**, which can be used as an additional component for EO/IR systems or as a standalone solution with a control panel and tripod.

FUJIFILM's booth at Enforce Tac is the go-to destination for security experts looking for the best remote surveillance systems. Visitors can discover the **FUJINON SX Series** along with ready-to-deploy surveillance solutions from **Hevi Optronics** and **Davis**, as well as multispectral lighting solutions from **Wiseled**. (lk)





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Experience the CEOTRONICS product innovations at booth 7A-217 and live in action as part of the Enforce Tac Village.



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