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(Photo: BuisnessWire)



Inexpensive and easy to operate, over the past three years commercially available drones have flooded global markets. A mature technology, asymmetrical battlefield and terrorist uses for these platforms are emerging as active airborne improvised explosive devices. Rapid commercial drone development is inspiring a number of companies to develop and market concepts and products to detect and stop drone flights. Most apply passive or active (hard and soft kill) means depending on the system used. Classified as a Low-Slow-Small target set, detection and discrimination of smallish air vehicles remain problematic with current military radar systems, leading to a new market niche for purpose-designed solutions.

Smaller, commercial quad copter-type drones, primarily products of Chinese companies, continue to dominate global markets. Offering limited payloads, most are relegated to aerial reconnaissance where immediate battlefield information is necessary for troop control and artillery fire coordination. The DJI Phantom quadcopter, for instance, is perhaps the most widely available. Seen in the hands of insurgent groups from the Middle East to the Ukraine, this drone is available complete with flight controls, spare battery and parts, conveniently contained in a rugged military-style backpack for under US\$2,000. Firmware updates, including a new package of Intelligent Flight Modes; Follow Me, Follow Waypoints and Circle Point of Interest are available. While DJI Phantom has a limited payload, a highly destructive biological weapon could be placed in a specific coordinate, in small amounts. The Phantom has range of 1.9 kilometres and 20 minute endurance.

Fixed-wing drones are used to deliver larger payloads over longer ranges. A 2016 Armament Research Services (ARES) publication entitled “Emerging Unmanned Threats”, contains photos of a uniwing Skywalker X8 FPV (first person view controlled) drone captured by Kurdish forces. Commercially available from hobby stores, these drones have a 2,122 mm wingspan, carrying up to a 3,500 gram payload, including controls, engine and servos. Mated with a 50 km FPV control set, or following pre-programmed waypoints, this drone is capable of long-range autonomous flight, potentially transporting an explosive to a precise location.

Editorial



Drone ops vs. C-UAS: what's the role of new technology and tactics in the security environment?

From a security perspective, it is a phenomenon that unmanned aerial vehicles (UAVs) or drones represent both opportunities and threats. Both the positive and the negative aspects of drones have been widely discussed during the past couple of years. According to Jörg Lamprecht, managing director and co-founder of Transport Security Expo in London, UK, some 400,000 drone systems from a growing number of manufacturers are currently being sold globally every month and their capabilities are increasing all the time. Lamprecht insisted that in the hands of inexperienced users, they can present significant problems, including potential collisions with aircraft. In the hands of criminal gangs or terrorist groups, Lamprecht said, they can be used for anything from smuggling drugs into prisons to delivering lethal payloads. Drones have also been used for industrial espionage.

UK firm OpenWorks Engineering, headquartered in Riding Mill, Northumberland, offers Multiple SkyWall100, a counter-drone system that has been deployed during the visit from the President of the United States to Berlin a couple of years ago. This operational deployment

demonstrates how the unique SkyWall100 capability can provide protection from drone threats for heads of state while in mobile and urban environments.

Conventional military formations are adopting commercially available drones for a number of uses, particularly for on-demand, immediate real-time battlefield ISR (Intelligence, Surveillance, Reconnaissance). Drone use by terror groups is now only in early stages. Necessity, imagination and technology may yield unfortunate results as skills and available technology improve.

Lack of terrorist group success weaponising drones is partly explained by the ARES report, explaining an integrated explosive device would require “an initiation system, most likely a time-delay fuze, an impact fuze on the fore-end of the UAV, a command-activated detonator, or any combination of these”. Depending on the explosive, “even a relatively small weight of high explosive [HE] could prove destructive against unarmoured targets including people, automobiles, buildings, or critical infrastructure,” the report reads.

Stefan Nitschke

The Bavarian State Minister of the Interior, for Sport and Integration



Foreword

Dear trade fair visitors, Ladies and Gentlemen,

The world will continue to face major security policy challenges in 2025. The war in Ukraine and the Middle East conflict show us how important a stable security architecture is for protecting our citizens. Such conflicts, with all their potential for tension, are not just purely foreign policy problems and issues, but they also directly affect our community and the security of our country. It is therefore extremely important that our security forces are prepared for a wide range of threats and are equipped as best as possible for them.

I therefore welcome the fact that the renowned Enforce Tac trade fair is once again offering an ideal platform this year to present the latest security and defence technologies, to exchange information on current developments and to develop innovative solutions for the challenges of internal and external security. The fact that over 700 exhibitors are now showing what is currently possible in terms of security technology has also contributed to the success story of Enforce Tac in recent years. With its targeted focus on authorities and organisations with security tasks, the trade fair has been providing important *impetus* for the technical equipment and tactical development of our security forces for years.

Our Bavarian police will also benefit from this. Only with the best possible equipment, our police officers can do their great job every day to ensure the safety of our citizens. To this end, we continuously invest in modern training facilities and optimal equipment. Enforce Tac is an indispensable part of this process. I am therefore happy to take on the patronage of the trade fair again this year. I wish the trade fair in Nuremberg a good outcome and profitable discussions and innovative impulses!



Joachim Herrmann
Bavarian State Minister of the Interior, for Sport and Integration
Member of the Bavarian Parliament



Dear visitors, exhibitors, comrades and friends,

This year, we once again bring together the leading players from security, defence and industry. For all of us – the entire Enforce Tac team, our exhibitors and our visitors – this trade fair is much more than just an event.

It is a place of exchange, innovation, and collective effort to shape the future of our security sector. The fact that we are gathered here once again fills us with gratitude and humility. The challenges we face are complex and demand strong networks, open dialogue and close collaboration between authorities, armed forces, research institutions and industry. We deeply appreciate your commitment and willingness to join us in exploring new solutions.

This year's fair sets new benchmarks with a record number of exhibitors and interactive formats. Whether on the new Enforce Tac Stage or at the exclusive Ammo Symposium, you will experience firsthand how our industry is evolving. High-calibre expert conferences, engaging live demonstrations and innovative networking opportunities make these days a truly unique experience. We extend our heartfelt thanks to everyone who has contributed their expertise and insights to create this diverse programme. It addresses current challenges, showcases new technologies and provides valuable perspectives on the future of the security and defence industry.

We are particularly excited about international collaboration: with new country pavilions and the German-Nordic Defence Industry Dialogue, we are creating spaces for exchange and cooperation beyond national borders. These platforms enable companies, policymakers and security agencies to forge new partnerships and strengthen existing collaborations. High-ranking representatives from politics, the military and industry are on-site to work with us in shaping the future of the security and defence sector. International cooperation is essential to effectively address the growing security challenges and develop joint strategies for a stable future.

Another highlight is the Enforce Tac Village, which once again allows for hands-on live demonstrations in a realistic setting. Here, you can gain a tangible impression of the latest developments and operational possibilities. Companies present their solutions in a combined setup, demonstrating how modern technologies and

equipment function under real-world conditions. This hands-on approach provides visitors with a deeper understanding of the capabilities of these cutting-edge products. Our sincere gratitude goes to the companies that bring their innovations to life here, contributing to a dynamic and insightful exchange.

Additionally, the trade fair offers a comprehensive conference programme featuring renowned expert panels. Specialists from various fields provide insights into the latest developments, share research findings and discuss current challenges. One of the key highlights is the first-ever Ammo Symposium at Enforce Tac, focusing on the pressing issues surrounding ammunition procurement. International experts and decision-makers will gather to develop sustainable solutions for ensuring an efficient supply for security and defence forces. The participation of so many esteemed speakers is by no means a given, and we extend our sincere appreciation to all contributors for sharing their valuable expertise.

Enforce Tac 2025 is more than just a trade fair – it is a gathering place for those who are dedicated to security with passion and expertise. Over the years, the event has evolved into an indispensable platform that unites professionals from diverse backgrounds and generates valuable industry insights. Whether you are looking to establish new business relationships, stay informed about the latest trends, or engage in discussions with fellow experts – Enforce Tac offers you the ideal setting.

We are truly grateful that you are part of this strong community, working with us to shape the future of the security industry. Over the coming days, let's learn from one another, build new connections, and work together to develop solutions that will sustainably strengthen security in Germany and Europe. Take advantage of this opportunity to exchange ideas with experts, experience innovation up close, and gain new perspectives for your work.

I am beyond delighted that you are here today.
Thank you!

Isabelle Teufert
Director Exhibitions
M.A., MBA
Capt. (Reserve)

Foreword

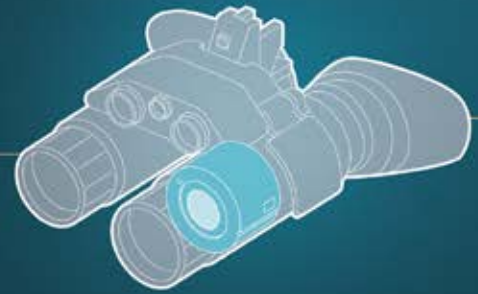


EXOSENS
BOOTH 7-379

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STATE-OF-THE-ART
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PHOTONIS PIONEER IN 16MM
FOR ENHANCED MOBILITY

THE BENCHMARK IN ALL
MAJOR EUROPEAN ARMIES

PHOTONIS: ELEVATING NIGHT VISION TECHNOLOGY WITH OCCAR PARTNERSHIP

As a key player within the Exosens Group, Photonis is a global leader in advanced photo-sensor technology, specializing in cutting-edge image intensifier tubes integrated into night vision devices and tailored to the requirements of diverse operational environments.

Supporting European Armed Forces with 4G technology

Photonis' image intensifier tubes are trusted by European Armed Forces and NATO partners. Since 2021, the German and Belgian Armed Forces have been equipped with advanced night vision devices featuring Photonis' 4G 16 mm image intensifier tubes. A contract extension signed by the Organization for Joint Armament Cooperation (OCCAR) further strengthens Photonis' leadership in defense innovation and trusted technology for NATO forces.

The adoption of Photonis' 4G technology by OCCAR highlights the exceptional performance and reliability of its solutions, which enhance nighttime visibility and provide tactical advantages in challenging conditions.

Enhancing mobility with 16mm image intensifier tube

Photonis has pioneered the development of 16mm image intensifier tubes, enhancing soldiers' mobility by improving both speed and accuracy in nighttime operations. This innovation improves soldiers' mobility, agility, and operational effectiveness while easing their physical load, a vital aspect of modern military efficiency.

By continuously advancing night vision technology, Photonis consolidates its leadership in the defense, enabling armed forces to meet ever-changing challenges and shape the future of military capabilities.



From February 24 to 26, Photonis will showcase its latest innovations in night vision technology at ENFORCE TAC. Visit us at Booth 7-379 to learn more about our cutting-edge image intensifier tubes, the optronics benchmark in night vision goggles, widely adopted in major European forces programs and around the world.



exosens.com

Briefing

A Turning point for internal security



The terrible attacks in Munich, Magdeburg and Aschaffenburg, where even a two-year old child has been killed, have stimulated a political debate in Germany not only about migration policy and a stricter control of the borders but also about the internal security and concrete steps on how it can be effectively improved. Former Federal Minister of the Interior, Nany Faeser, was alarmed and suggested additional measures to enhance law and order in Germany. Bavaria's Prime Minister, Markus Söder, called for a "turning point" (*Zeitenwende*) to improve the internal security in Germany significantly.

Former Interior Minister Faeser is convinced that the security situation in Germany has drastically worsened. As the main reason for this development, she identified Russia's war against the Ukraine and the fact that Germany is the strongest political, financial and military supporter for the Ukraine in Europe. Mrs. Faeser strongly criticized Russia's President Vladimir Putin to conduct a hybrid warfare campaign against Germany which has caused a new dimension in the threat. According to the Interior Minister, Putin's hybrid warfare campaign includes cyber-attacks, disinformation, attacks on critical infrastructure, as well as sabotage and espionage. In addition, Putin has deliberately stimulated migration and tries to flood European countries with refugees to destabilize them.

Bavaria calls for a turning point in internal security

Bavaria's Prime Minister Markus Söder, a strong supporter of law and order, is also alarmed and called for a "turning point" in internal security.

The recent attacks in Germany have shown that the German Government should launch a new security package to stop this negative development. Söder who is known for his clear political messages said that Germany must wake up. Times have changed and it would be necessary to set up a real turning point to increase security and protection for the whole nation. The politician added that Germany would be blind without US intelligence. However, Germany would not use its technological capabilities which are available to make the country safe again. Data retention would be absolutely needed, and the storage of IP addresses would be crucial to curb crime and terrorism and to find the suspected perpetrators.

Bavarian Prime Minister Söder is supported by his Minister of the Interior, Joachim Herrmann, who inaugurated this year's Enforce Tac like in recent years. According to Herrmann, Bavaria is in the pole position for internal security compared with the other states in Germany. A solid indicator for this would be the strengthening of the Bavarian Police, both in terms of manpower and material. From 2008 to 2023, Bavaria increased its police with 8,000 additional positions and the plan is to create 2,000 new jobs so that the total number goes up from 45,000 to 47,000 jobs until 2028.

The growing importance of internal security has also been underlined by Germany's first National Security Strategy which was published in June 2023. At the heart of the new strategy is the idea of an "integrated strategy" which comprises not only military security but also internal security, cyber security, energy security, raw material security, space security, climate security, social security and other domains. To ensure peace and stability, the Security Strategy is based on three key principles:

◀ **Bavarian Interior Minister Joachim Herrmann is convinced that Bavaria holds a pole position in internal security compared with the other federal states in Germany.**
 Photo: Bavarian Ministry of the Interior/Sebastian Widman

- Robustness – defending peace and freedom within a civilized society.
- Resilience – safeguarding values through inner strength.
- Sustainability – securing natural resources for the next generations.

This year's Enforce Tac is again an excellent opportunity to discuss ways and means of how internal security can be enhanced. At present, many people in Germany are not happy about the security situation. Therefore, it was no surprise that internal security and migration policy were among the key issues during the election campaign.

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

Former Federal Interior Minister Nancy Faeser ▶
accuses Russia of waging a hybrid warfare campaign against Germany.
 Photo: Federal Ministry of the Interior/
 Christina Czybik



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NUREMBERG - FEBRUARY 24-26, 2025

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Comment

Endless wishes, but no coordinated approach

The Bundeswehr will not be able to conduct operations without drone systems. For the military “to be ready for war,” which is required by 2029 or later, expanded capabilities and capacities in the field of unmanned aircraft systems (UAS) are an essential factor. But the procurement of systems that meet requirements – and in sufficient quantities – is stalling. **Colonel i.G. Markus Lauer** from the Bundeswehr Planning Office (*Planungsamt der Bundeswehr*) warned at a recent “Expert Discussion on Drones” in Cologne-Wahn that procurement cycles are too long and are described to hinder the rapid introduction of unmanned aircraft into the troops. The Bundeswehr can no longer afford delays in the procurement processes.

The bottom line: We are far too slow. Many of our allies are ahead of us. Too many questions remain unanswered: How do we want to structure ourselves? How do we want to use drones? How can we increase the

number of systems? What type of systems can we get into the troops quickly? Do we really know what systems are available on the market? And: How can we prevent far too many requests from many of those involved from becoming an obstacle? For some, it takes a lot of courage to allow these questions to be asked. And here it is still the case that no one knows what is happening to anyone else.

The war in Ukraine shows that new ways must be identified in an attempt to simplify and accelerate procurement processes. In many cases, the slow and inhibited procurement cycles will be “overtaken” by rapidly evolving technologies in industry. Start-ups are changing the face of the defence industrial base and are believed to bring in new innovative technology in some critical fields, e.g., Artificial Intelligence (AI). Technologies without which we will not be able to fight war. If we want to be fast, we have to understand that. (str)

“Expert discussion on drones”: Procurement cycles are too slow and represent a threat to capability enhancements in the Bundeswehr.

Photo: Stefan Nitschke



Reviewer – Leveraging technology to connect NATO forces – increasing reliability and keeping soldiers safer

Raytheon ELCAN Specter DR sights offer several customizations to make soldiers more effective on the battlefield. A Picatinny/STANAG rail can be integrated into the sight casting, making it easier to mount ancillary devices (like red dot sights or laser range finders) without adding the weight of a mounting plate. This option is available for all dual role and magnified sights.

Photo: Raytheon ELCAN

Today's NATO Alliance faces the most complex and unpredictable security environment since the end of the Cold War. To adapt and prevail, it must close critical defence-capability gaps that range from large-scale platforms to small, man-portable solutions. This need has driven the evolution of **Raytheon ELCAN** Specter optical weapon sights, which have enabled allied forces to meet operational challenges for decades.

The C79 combat optical weapon sight, developed in close cooperation with the Canadian Armed Forces, was deployed in 1989 for use on the Colt C7 by the 'C7 countries', most notably Canada and Denmark. The machine gun variant of this fixed 3.4x optic was then adopted as the M145 by the US and Czech Armies – and remains standard issue across several NATO forces. The next-generation Raytheon ELCAN Specter DR dual-role weapon sight, designed to meet the asymmetric battle requirements in Iraq and Afghanistan, allows soldiers to switch instantly from close-quarter combat to long-range target identification. The Specter DR dual-role sight is available in 1-4x and 1.5-6x magnifications.

"ELCAN Specter sights are known for the crystal-clear optics, durability, reliable performance and extended eye-relief – this is the ELCAN Specter DNA," said **Todd Pace**, a former US Army Ranger and **Raytheon** technical sales manager for Raytheon ELCAN rifle sights.

"Necessity is the mother of invention – NATO capability gaps are driving innovative new solutions at ELCAN," he added.

Lasers have many uses on the battlefield but can also blind a soldier, especially through a magnified optic. External laser filters help protect users but reduce light transmission, often cause fogging and are easily lost or damaged. Raytheon ELCAN offers an integrated high-performance laser coating that protects soldiers as effectively as an external filter without negatively affecting performance or light transmission.

As NATO forces modernize optical weapon sights, Raytheon ELCAN Specter Sights continue to leverage disruptive technologies to keep soldiers safer and make them more effective on the battlefield.

Significantly, the Raytheon ELCAN Specter DR dual role sights, for assault rifles and machine guns, are now available with an ambidextrous throw lever to make it easier and safer for left-handed shooters. This because approximately 12% of the world's population is left-handed. Traditionally, standard issue equipment has been designed for right-handed soldiers, and those who are left-handed or left-eye dominant had to learn to adapt.

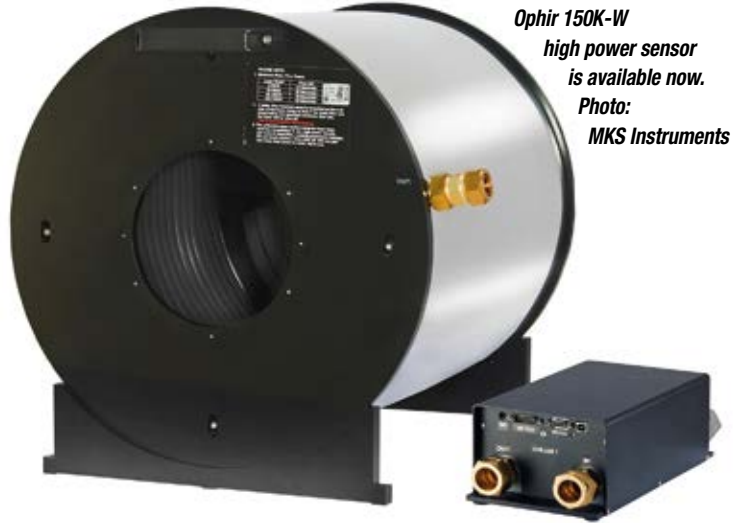
"The ambidextrous lever allows both left-handed and right-handed shooters to use their non-firing hand to change field-of-view without discontinuing engagement – it's quicker and safer," explained Todd Pace.

(str)

Reviewer – Ophir® 150K-W high-performance laser sensor impresses with high precision

MKS Instruments is introducing the Ophir® 150K-W sensor for the reliable measurement of very high laser powers of up to 150kW (kilowatts). The high-performance sensor delivers extremely precise and reliable measurements. Laser powers between 10 kW and 150 kW can be measured with the water-cooled thermal sensor over the spectral range from 900 to 1,100 nanometers. Extremely low backscattering of less than 0.5% increases safety during the measurement process. The Ophir 150K-W high-performance sensor consists of a beam trap and the measuring unit, and takes into account the continuously increasing laser powers in both industrially used lasers and in the field of directed energy. It delivers valuable results in the development and testing of new high-performance fiber lasers as well as in welding and cutting in industrial production.

“Directed energy and industrial applications such as laser cutting are driving the development of lasers with ever higher power. But until now there has been no reliable measurement technology to measure laser powers higher than 120kW,” explained **Reuven Silverman**, General Manager Ophir Photonics Products. *“The Ophir 150K-W high-performance sensor takes the measurement of high laser powers to a new level. It provides development and production teams in both industrial and defence environments with precise and reliable measurement results. The measuring device can be integrated into third-party systems or operated directly with the user-friendly Ophir software. In both cases, the Ophir sensor is a powerful, reliable and efficient tool for measuring extremely high laser powers.”* The Ophir 150K-W high power sensor contains two components: a beam trap to absorb the high-power laser beam and disperse



Ophir 150K-W high power sensor is available now. Photo: MKS Instruments

the heat, and a measuring unit to record the power levels. The measuring device has an RS232 interface and a Smart Connector interface to connect the company’s display devices such as Centauri, StarBright, StarLite. Other smart Ophir display devices or Juno and Juno+ can be integrated as compact USB PC interfaces and Juno-RS, Pulsar or Quasar as virtual energy and power measuring devices. The EA-1 Ethernet adapter can also be used with the Ophir 150K-W high power sensor. (stn)

The advertisement features a green background with a silhouette of a soldier in the center. Large white letters spell out 'MSPO'. Text on the left includes the Polish coat of arms, 'The Honorary Patronage of the President of the Republic of Poland', 'Strategic Partner', and the 'PGZ' logo. Text on the right includes 'Targi Kielce exhibition & congress centre', '33. International Defence Industry Exhibition', and '2-5 | 09 | 2025'. At the bottom left is the slogan 'making the future safe' and at the bottom right is the website 'mspo.pl'.

Reviewer – Rheinmetall delivers intercom with hearing protection function sets to the Bundeswehr

Rheinmetall has been delivering intercom with hearing protection function to the Bundeswehr since 2024. The intercom with hearing protection function – SMG (*Sprechsatz mit Gehörschutzfunktion*) is designed to ensure uniform communications and protection equipment for the entire Bundeswehr. It is one of the central sub-projects of the task-oriented equipment (*aoA – aufgabenorientierte Ausstattung*) programme. With this project, the Bundeswehr is pursuing the goal of sustainably improving the personal equipment of all soldiers.

In addition to protecting hearing, the system offers 360-degree perception of ambient noise and enables unrestricted communication capability via various radio devices and on-board communications systems. The system is compatible with existing equipment and increases the operational value and protection of every soldier.

Rheinmetall Electronics GmbH was able to prevail in a demanding tendering process in the competition. Since April 2024, the company has been acting as a contractual partner of the Federal Office for Equipment, Information Technology and In-Service Support of the Bundeswehr (BAAINBw). The framework agreement is set to run until December 2031, enabling the procurement of up to 191,000 SMG systems. Further deliveries under the framework agreement have already been agreed until the end of 2025.

The SMG system is based on state-of-the-art technology and European manufacturing. As the prime contractor, Rheinmetall is responsible not only for system integration but also for the functionality and

reliability of all components. Rheinmetall Electronics GmbH has a state-of-the-art audio laboratory for this purpose, where all system functions can be tested under simulated conditions. The industrial partners play a particularly important role here: **3M Deutschland GmbH** supplies the Peltor Comtac VIII, the latest generation of its hearing protection headset, which has been specially adapted to the requirements of the Bundeswehr and is fully compatible with the push-to-talk (PTT) buttons and adapter cables from **CeoTronics AG**.

CeoTronics ensures seamless integration with a wide range of handheld radios and on-board communication systems by providing a variety of PTT variants and adapters. CeoTronics' components are thus at the heart of the system's functionality. In the area of logistics, Rheinmetall is working together with **L.I.T. Solutions GmbH** of Bremen, which is providing active support in the areas of logistics, transport and order picking. Along with CeoTronics and 3M, L.I.T. is another important link in the supply chain.

The feedback from user trials to date confirms the high quality and practicality of the system. The SMG system has been thoroughly tested in intensive trials and found to be operationally effective. Rheinmetall is optimistic that further call-offs from the framework agreement will follow. The cooperation with subcontractors 3M Deutschland and CeoTronics has not only proved extremely successful in this project, but also lays a solid foundation for future joint ventures. *(stn)*

Hall 10.0
Booth 417



*The SMG system is the central sub-project of the Bundeswehr's task-oriented equipment programme.
Photo: Rheinmetall AG*

Capability Report – Streamlight: multi-fuel Sidewinder® X tactical light offers improved Lumen output, battery options and LED colour choices



Hall 7A
Booth 740

The light is made from high-impact, super tough nylon that offers exceptional durability and weather resistance, and its unbreakable polycarbonate lens is gasket-sealed and has a scratch-resistant coating.

Photo: Streamlight, Inc.

For more than 50 years, **Streamlight, Inc.**, based in Eagleville, Pennsylvania, has designed, manufactured and marketed high-quality, durable flashlights designed to serve the specialised needs of professionals and consumers alike. Today, the company offers a broad array of lights, lanterns, weapon light/laser sighting devices and scene lighting solutions for professional law enforcement, military, firefighting, industrial, automotive and outdoor applications. Streamlight is an ISO 9001:2015 certified company.

Streamlight's Sidewinder® X, a high-output, multi-fuel military flashlight designed for a variety of task illumination needs, comes with four LED colour options and intensity levels, up to 275 lumens and a 185-degree articulating head. Streamlight's latest addition to its product line is powered by either disposable alkaline or lithium batteries and is available in three different versions, including a user configurable (UC) model.

"This is the brightest light in the Sidewinder family, while also providing battery versatility to suit individual needs or preferences," said Streamlight President and CEO **Ray Sharrah**. "In addition to white light, users can select the infrared or green LEDs for compatibility with night vision equipment, the blue LED to check injured personnel for bleeding, or the red LED to maintain night vision when map reading or for cockpit navigation, all in one compact, waterproof package," he explained.

The Sidewinder X is available in three different models: military, programmed with white, red, blue and infrared outputs; aviation, programmed with white, green, blue and infrared outputs; and a new user-configurable model that allows users to choose two colours from the selection of red, green or blue LEDs in addition to white and infrared LEDs programmed into the light.

The new light uses a white LED that offers 275 lumens of bright light on high and up to 150 hours of run time when using two AA alkaline batteries or 100 hours with a single three-volt CR123A battery. Tactile battery polarity indicators make battery changes in the dark easier to accomplish. The light's colour and infrared LEDs offer peak wavelengths of 950nm (infrared), 662nm (red), 530nm (green) and 470nm (blue). All light outputs provide four intensity levels and a strobe mode that operates at 100% intensity.

The Sidewinder X's compound on-off mode selector switch ergonomically separates the on-off, dimming, strobe and LED colour selection functions. A rubber dome actuator and four-position pull-to-turn locking rotary selector knob offer easy operation, even with gloves, and prevent accidental mode changes. The light comes with a durable belt/gear clip to securely fasten it to a helmet, belt or MOLLE, and it fits existing Sidewinder helmet mounts and adapters. A cord attachment hole in the body is capable of supporting up to 22.7 kilograms. (str)

PELI's contribution to supporting armed forces: 19-inch racks



◁ *With Peli Rack Cases, the safe transport of electronic devices to remote areas is no longer a problem.*
 Photo: PELI Systems

electronic equipment can be mounted. The integrated shock absorbers made of elastic plastic or other protective materials isolate the systems through the rack walls and provide shock and vibration absorption to protect the sensitive equipment. Most recently, the company launched protective cases for 30-inch rack enclosures. These are ideal for various solid-state servers ranging from 27 to 29 inches (68.58cm to 73.66cm) in length. Larger servers offer more storage capacity and have more efficient cooling properties for more stable performance.

Larger servers are beneficial for military use, but require a case with greater depth. The 30-inch depth not only allows for longer servers to be accommodated, but also allows one or more devices to be mounted on the same rack level, saving space and reducing payload. The greater depth also leaves more room for switches, connectors and cables, which are accessible from the rear of the case thanks to the 30-inch rack's double-lid design, allowing for quick and efficient deployment of IT systems.

All of PELI's new rack cases have successfully passed the MIL-810 testing procedure, including the standard 26 drops per payload weight range, stacking weight, vibration testing procedures as well as a full range of the standard MIL-810. As technology advances, the demands on the armed forces will also increase in the coming years. This means increasingly complex tasks and missions. (stn)

Modern military operations are more complex and diverse than ever and increasingly rely on information technology (IT). Therefore, IT equipment is essential to military strategies. However, these IT systems are sensitive and require a high level of protection when transported to operational and combat areas.

PELI Products manufactures 19-inch rack protective cases made of high-impact polyethylene with built-in frames in which all types of

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Report

More than 20 billion Euros for Germany's defence

The Budget Committee of the German Parliament has approved 38 additional procurement projects each of them valued at more than 25 mio. Euros. Germany's Defence Minister Boris Pistorius welcomed the Budget Committee's approval and stated that this milestone was possible only because all parties involved in the Parliamentarian process were fully committed to making this a success.

The 38 defence projects have a total value of more than 20 billion Euros. Political observers consider this achievement as an indication that the approval process, which is known to be bureaucratic and time-consuming, has slightly improved. The 38 procurement projects are part of the 97 projects which have been approved in 2024. In 2023, the total number of new defence projects counted for 55 projects only. This

means that last year almost twice as many projects were approved. The biggest chunk of the funding is covered by the so-called "Special Fund" (*Sondervermögen*) for the German Armed Forces and the normal defence budget. The 100 billion Euros Special Fund has been launched by the German Government as a reaction to Russia's war against the Ukraine.

The 38 new procurement projects cover the German Army, Air Force, Navy, Cyber defence and the support area. A few examples:

- Cyber Defence: provision of data centre capacities and cloud-based infrastructure;
- Support Area: procurement of protected and unprotected vehicles, swap loading systems and regeneration modular medical facilities
- Clothing and Personal Protection: procurement of more clothing for the soldier.

◁ *The MOBAST protective vest system consists of a protective vest of Protection Class 4, ballistic underwear to protect against small fragments and a carrying system for magazines and equipment. In addition, modular fragmentation protection elements for the neck and shoulder, groin protection and upper arm and thigh protection are available.*

Photo: Bundeswehr/Dirk Bannert

The latter is an ambitious programme. The soldiers and civilian personnel of the Bundeswehr already receive modern, high-quality clothing and personal equipment to carry out their tasks while at the same time providing the best possible protection. The implementation of the follow-up solution in the Bundeswehr's clothing management, which began in 2023, has been continuously developed since then. To this end, the existing framework agreement with **Bw Bekleidungsmanagement GmbH (BwBM)** must be regularly adjusted. The signed fifth amendment agreement includes both new services and the corresponding financing for the years 2025 to 2032. The contract will take effect when the 2025 budget comes into force. The new service adjustment includes numerous new purchases and thus significantly improves the equipment of civilian and military personnel.

Among other things, a new, contemporary uniform was commissioned for the active troops and the reserve in order to provide them with items with an improved fit and optimized outer material without significantly changing the traditional appearance.

The modernisation of sportswear with greater comfort and improved functionality is also a new part of the contract. In addition, new combat clothing is being procured for the Bundeswehr's special forces. Unlike the previous equipment, this will be provided as a coordinated set with various modules and in various camouflage print variants in order to ensure adequate equipment for use in different vegetation and climate zones. The re-purchase of existing items will also be financed through the amended contract, not least due to the sharp increase in the volume of newly purchased clothing as part of the change of times. Another key financing component concerns the operating services of BwBM GmbH. The additional quantities procured and managed also increased the expenditure on storage space, logistics and the personnel employed for this. The financing now available will therefore be used to advance the optimization of goods management as well as the digitization of logistical processes in the service stations.

The 97 procurement projects agreed in 2024 are of significant political and military importance for the Ministry of Defence in Berlin. The military reason is that these projects will make a substantial contribution to enhance the readiness of the German Armed Forces. The political reason is the visible proof that Germany is committed to achieve the agreed two-percent target, to launch new procurement projects and to enhance its overall defence capabilities as a leading nation in the Atlantic Alliance.

(tb)

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*The first units of the modern Rattler XR laser target designator have been delivered to the German Armed Forces by the end of 2024.
Photo: Elbit Systems Deutschland*

Hall 7A
Booth 224

Bundeswehr receives new laser target designators

Elbit Systems Deutschland began the scheduled deliveries of new laser target designators to the German Armed Forces (*Bundeswehr*) at the end of November 2024. The Rattler XR systems not only eliminate the compatibility problems with the technical interfaces of friendly nations during exercises and operations that have arisen in some cases, but they also offer a significantly wider performance spectrum. The Rattler XR has a high laser output with low beam divergence, integrated laser see spot and a spillover alarm to prevent munitions from missing the target and jeopardizing the mission. Thanks to its open communications architecture, the Rattler XR can also easily interoperate with other systems and sensors, such as thermal imaging devices, enabling comprehensive reconnaissance and designation of targets by day and night.

Elbit Systems Deutschland offers the Rattler XR in combination with the AION-C and HattoriX products in the TRIDENT system for optional expansion of the functions with additional optronics and integrated data communication. This makes TRIDENT the ideal equipment for JTAC (Joint Tactical Attack Controller).

The Bundeswehr will initially receive the new laser target designators in smaller quantities to meet an immediate operational requirement. Other NATO forces have also already opted for the Rattler XR as a successor and replacement system for their respective equipment. With the development and integration of the Rattler XR, Elbit Systems Deutschland is once again underlining its expertise as a leading provider of electro-optics and system integration. (str)

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NUERNBERG MESSE

Industry Profiling – The legacy of precision: Waffentechnik Solingen is producing high-quality military and law enforcement products for high-end demands

In the heart of Germany's famed "City of Blades", Solingen, a location with a Century-old tradition of craftsmanship, **Waffentechnik Solingen** has emerged as a leader in the production of high-quality military and law enforcement products. Well-known for its exacting standards, innovative designs and commitment to excellence, Waffentechnik Solingen represents the pinnacle of precision engineering and robust reliability in the defence and law enforcement sectors. With a rich history, a commitment to German craftsmanship, and a future-oriented approach, the company's products are trusted by military personnel, law enforcement agencies and first responders worldwide.

To understand the significance of the company's location, it is important to first appreciate the history of Solingen. The city has long been synonymous with the production of high-quality blades, knives and cutting tools, a reputation that dates back to the Middle Ages. Solingen is home to some of the oldest and most respected manufacturers of blades and steel products, and its name is even protected by trademark law to preserve the city's legacy of high standards in blade production. For centuries, artisans in Solingen have crafted weapons, tools and knives, and the city's proximity to rich sources of high-quality steel, coupled with its skilled workforce, made it a natural hub for these industries.

From tradition to innovation: The Eickhorn family has been first mentioned in public books as a manufacturer of edged weapons in 1648, and the current CEO of Waffentechnik Solingen, **Jörg Eickhorn**, lives the legend until today. At the heart of the company's ethos is a commitment to providing military and law enforcement professionals with the tools they need to perform their duties with precision and confidence. Specialising in high-performance edged weapons for the military and tactical law enforcement equipment, Waffentechnik Solingen is committed to using only the finest materials and its ability to blend

traditional techniques with modern manufacturing technologies. At every stage of production, the company ensures that its products adhere to the highest standards, using only premium materials renowned for their strength and durability. The attention to detail in the manufacturing process is evident at every step. This combination of technology and craftsmanship guarantees a level of consistency and precision that is crucial for professionals who depend on their tools in life-and-death situations.

Product range – meeting the demands of professionals: The company's product line spans a wide range of tools designed specifically for military, law enforcement and tactical operations. Some of its most well-known products include:

- combat knives
- bayonets
- rotating holster loop
- MP5 magazine adapter MP5 (available for other magazines as well)
- customized products (also available in small quantities)

Global recognition and trust: The company's reputation for excellence has not gone unnoticed. Over the years, it has earned trust from some of the most demanding customers in the world: military forces and law enforcement agencies. Just to name a few references – whether it is the German Army; Netherlands Marine Corps; Irish Defence Forces; Croatian Ministry of Defence (MoD) and Ministry of the Interior of the Republic of Croatia (Mol); Oman MoD; UAE Presidential Guard; Indonesian Navy, Malaysian MoD (MINDEF); Brazilian Marine Corps (*Corpo de Fuzileiros Navais*; CFN); Indian MoD; or the German State Police Forces, the company's products are trusted by those who operate in the most dangerous and challenging environments.



The products on offer by Waffentechnik Solingen are updated to reflect the latest advancements in materials and technology, ensuring that they remain at the cutting edge of military and law enforcement equipment:

(A) KM2K (German Army Combat Knife)

(B) Bayonet model B3K

(C) Rotating Holster Loop Police North Rhine-Westphalia (NRW)

(D) Magazine Adapter MP5 Police NRW

(E) Buddy 2

All photos: Waffentechnik Solingen

This trust is a direct result of the company's commitment to constant innovation, rigorous testing and quality assurance. Every product is subjected to extensive field-testing to ensure that it performs reliably in real-world conditions. This includes testing for factors such as durability under extreme temperatures, resistance to corrosion and the ability to maintain functionality in combat or rescue operations.

Waffentechnik Solingen

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INVISIO secures multi-million order for Intercom and Dismounted Soldier systems

Hall 7A
Booth 220

A headset is an indispensable part of personal safety equipment (PSE), protecting hearing in noisy environments and allowing communication and minimizing health risks.

Photo: INVISIO



INVISIO has received a significant order from an existing European customer for its Intercom and Dismounted Soldier systems. Deliveries are set to commence immediately and are expected to be completed by the first quarter in 2025. The order, valued at SEK115 million (€10.168 million), includes systems designed to provide seamless communications capabilities for both mounted and dismounted users. The order reflects the growing demand for INVISIO's advanced communications solutions, which are designed to enhance operational effectiveness in demanding environments. **Lars Højgård Hansen**, INVISIO CEO, said: "This is another substantial order for our Intercom and Dismounted Soldier systems. We are very pleased once again to be reaffirmed that our

solutions meet the very high expectations of users operating in the most critical and challenging conditions." He added; "We also take pride in being able to deliver such a large order within a short period of time, which is a unique capability in our industry and demonstrates the competitive advantage of maintaining an optimised inventory."

INVISIO develops and sells advanced communications systems that provide hearing protection and enable professionals in noisy and mission critical environments to communicate and operate effectively. The company's two brands, INVISIO and Racal Acoustics, combine expertise in acoustics and human hearing with broad engineering knowledge in software, materials technology and interfaces. (stn)

VISIT US AT BOOTH 9-471



Real game changer: VECTED pitches world's first thermal reflex sight for day and night use



Suitable for night combat:

With the TRS, VECTED is expanding its portfolio of thermal imaging devices with magnifying optics to include solutions without magnifying optics for shorter distances.

Photos: VECTED



Hall 7A
Booth 123



Reflex sights are tried-and-tested electronic aiming aids for the police and military, but they reach their limits in unclear terrain or during night operations when it comes to detecting humans. Thermal imaging specialist **VECTED** has brought the “game changer” with its specially developed TRS reflex sight. Thanks to integrated thermal imaging optics, which can be switched on as required, humans and other potential targets can be identified directly at short to medium distances using their heat signature and, if necessary, attacked immediately.

Switchable thermal imaging optics from VECTED: As with all day vision optics, it becomes difficult when humans to be detected are hidden or camouflaged. A thermal imaging attachment is usually placed in front of the daylight optics. In order to offer decisive added value here, VECTED has developed the TRS (Thermal Reflex Sight), a compact reflex sight with integrated, switchable thermal imaging optics. When used in unclear

terrain, for example, humans and other potential targets can be identified directly using their heat signature and, if necessary, engaged immediately. The combined device is small, light, robust and has an extra-large field of view and large eye relief. Magnifying optics (magnifiers) and even residual light amplifiers can therefore also be mounted and used.

The thermal reflex sight has two different modes: during daylight or at dusk, the image appears in outline mode, i.e. heat sources are given a contour all around for faster detection by the user. At night, the scenery appears in full thermal image, which shows a reddish-coloured, otherwise completely realistic image.

Immediately suitable for night combat:

The switch from the day vision optics of the reflex sight to the thermal imaging optics is practical: If you need to act quickly, e.g. if the lighting conditions change immediately (breaking into a basement, etc.), simply

opening the lens cover activates the thermal image. The overlay is immediately reflected and the user is immediately suitable for night combat. The TRS enables soldiers or police officers to detect and combat enemies earlier, faster and more precisely than ever before.

Reflex sights, also known as illuminated dot sights or red dot sights, have been standard in the government and military sectors for years. Unlike in the past, reflex sights no longer require three levels (rear sight, front sight and target) to be placed on top of one another. Instead, these non-magnifying optics, which are used on long guns, display a illuminated dot that must be placed over the target – so there are only two levels. Because the sights are non-magnifying, the user can have both eyes open, which gives them a better overview and makes it quicker and easier to recognize and capture the target. Reflex sights can be used at short and medium distances of up to 200m and more. (str)

From the Arctic Zone to the desert – for land and oceans: GORE-TEX Professional Fabrics protects the Military and Navy with intelligent, modular clothing technologies

Tailor-made materials for temperatures and weather extremes from head to toe



Military operations are extremely challenging: Bundeswehr soldiers carrying a winter camouflage suit made of GORE-TEX material from Carinthia®.
(Photos: W. L. Gore & Associates)

NATO poses a serious threat situation more than in the decades before. Therefore, the armed forces – on land and at sea – must prepare themselves for a wide variety of operational scenarios and, of course, climatic zones. Armed forces need modular clothing systems that protect them comfortably, reliably and flexibly even under the most extreme environmental and weather conditions: water, wind, heat, cold, flames and dangerous substances. GORE-TEX technologies for different layers of military clothing and combat boots offer this protection in a temperature corridor of 100°C, from Arctic cold to desert heat. GORE showcases its system solutions for the Military and Navy at Enforce Tac 2025.

Today, more than ever before, soldiers are confronted with a wide range of operational conditions and situations – from the Arctic to the desert, from training and manoeuvres to combat. Military clothing should therefore always be thought of as a system in which all layers are modularly coordinated and compatible.

A modular clothing system is not only efficient – it guarantees that the individual soldier remains optimally protected and operational under all climatic conditions and for every type of deployment.

GORE-TEX protective clothing as a system: GORE offers proven clothing technologies for the Military and Navy in a modular concept – tailor-made materials for the full climate and temperature ranges from -50°C to +50°C, from skin-to-shell and head-to-toe, which are functionally coordinated and can be combined with one another. The products ensure optimal “fitness for use” – as a mid-layer, outer layer, or highly insulating layer. The quickly replaceable insulation and functional layers can be adapted to the operational climate and situation with little logistical effort.

GORE-TEX membrane for permanently waterproof, windproof and breathable protection: The membrane for outerwear, shoes and gloves allows water vapor to escape while protecting against wind, rain, snow and everyday chemicals on land and on board, even after contact with DEET insect repellent, petroleum and lubricants. The membrane is designed in various constructions with specific advantages for the respective end use, such as the example of stretch technology.

GORE-TEX Stretch product technology for optimal freedom of movement: GORE-TEX Stretch wetsuits combine a high degree of freedom of movement, high durability and maximum protection. The GORE-TEX Stretch membrane technology enables designs and constructions with an optimised fit, improving the water vapor transmission resistance of the clothing and increases breathability.

WINDSTOPPER® product technology by GORE-TEX LABS for absolute wind proofness and insulation protection: The membrane integrated into the materials ensures that outerwear and gloves are absolutely windproof, thus protecting against



Soldiers carrying combat clothing with the multifunctional GORE-TEX Stretch technology for the Military during a fictitious mission scenario.

cooling due to wind chill. The WINDSTOPPER product technology by GORE-TEX LABS is also highly breathable; it reduces the risk of overheating.

PYRAD® product technology by GORE-TEX LABS for heat, flame and jet flame protection: The PYRAD product technology is based on a special laminate that forms a stable carbon layer when exposed to heat and flames to protect the soldier. It enables heat and flame-resistant outerwear with or without rain protection that is also compact and light.

EXTRAGUARD upper material for permanently waterproof and lightweight combat boots: EXTRAGUARD upper material technology for military combat boots combines for the first time the advantages of a robust upper material with those of lightweight, flexible and breathable textiles – this enables a completely new class of GORE-TEX combat boots for the Military and Navy. These are not only permanently waterproof, breathable and flame-retardant, but also permanently lightweight – even after long periods in wet, muddy terrain or on board in wind and weather – and dry quickly afterwards.

GORE puts all technologies through their paces in its biophysical laboratories. The specialist for technical functional materials has a wide range of laboratory capacities, including durability testing and wet laboratories, flame and heat laboratories, a rain tower and an environmental and climate chamber.

Nordic Combat Uniform is a prime example: A successful example of a modular clothing system is the Nordic Combat Uniform (NCU) in Scandinavia, developed for the Nordic Defence Cooperation (NORDEFCO); consisting of Denmark, Finland, Norway and Sweden). The system consists of several layers – from underwear to an insulated jacket. Some basic items of clothing can always be worn and supplemented with other elements, depending on the climate conditions and use. The first uniforms were recently handed over to the Norwegian Armed Forces (Forsvaret), and other countries are to follow this year.

(str)



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THEON participates in the German Future Soldier Programme

THEON Sensors S.A. is included in the German Future Soldier Programme (*Infanterist der Zukunft – Erweitertes System; IdZ-ES*), offering its newly launched Heads-Up Display (HUD) system to the German Armed Forces. On 29 January 2025, the German Parliament passed procurement of IdZ-ES, with **Rheinmetall Electronics GmbH** being the prime contractor. Subsequently, the BAAINBw procurement agency and Rheinmetall have signed the contract on 6 February 2025. A subsidiary of **Theon International Plc**, Theon Sensors S.A. is the largest supplier of the programme. This programme is anticipated to serve as a prime reference for similar initiatives being organised in various countries worldwide. At the same time, THEON is currently making positive progress, engaged in additional tenders with its new products, and anticipates making further announcements soon, thereby enhancing the sales mix in the coming years. THEON expects options to be fully exercised once first deliveries start occurring primarily in 2026.

Philippe Mennicken, Business Development Director of THEON, stated: *“We have started the new year with significant order intake, continuing the momentum from the end of last year. Notably, our participation in the German Future Soldier Programme [IdZ-ES] with our Heads-Up Display, THEA demonstrates that our newly launched A.R.M.E.D. products have the potential to further enhance our future sales beyond our traditional Night Vision business, where we continue to hold a market leading position.”*

(str)



With the latest addition to the German IdZ-ES programme, the THEA HUD is testament of THEON Sensors' unique position as one of the most innovative and fast responding developer and manufacturer of night vision systems in the world.
Photo: THEON Sensors S.A.



Federation of German Security & Defence Industries e.V.



Booth number 9-426

The member companies of the Federation of German Security & Defence Industries e.V. (BDSV) are highly qualified suppliers and partners of the German Armed Forces (Bundeswehr) and of the **ministries entrusted with responsibilities regarding national security.**

Our industry is an indispensable part of German security interests and contributes to the **protection and security of Germany's citizens.**

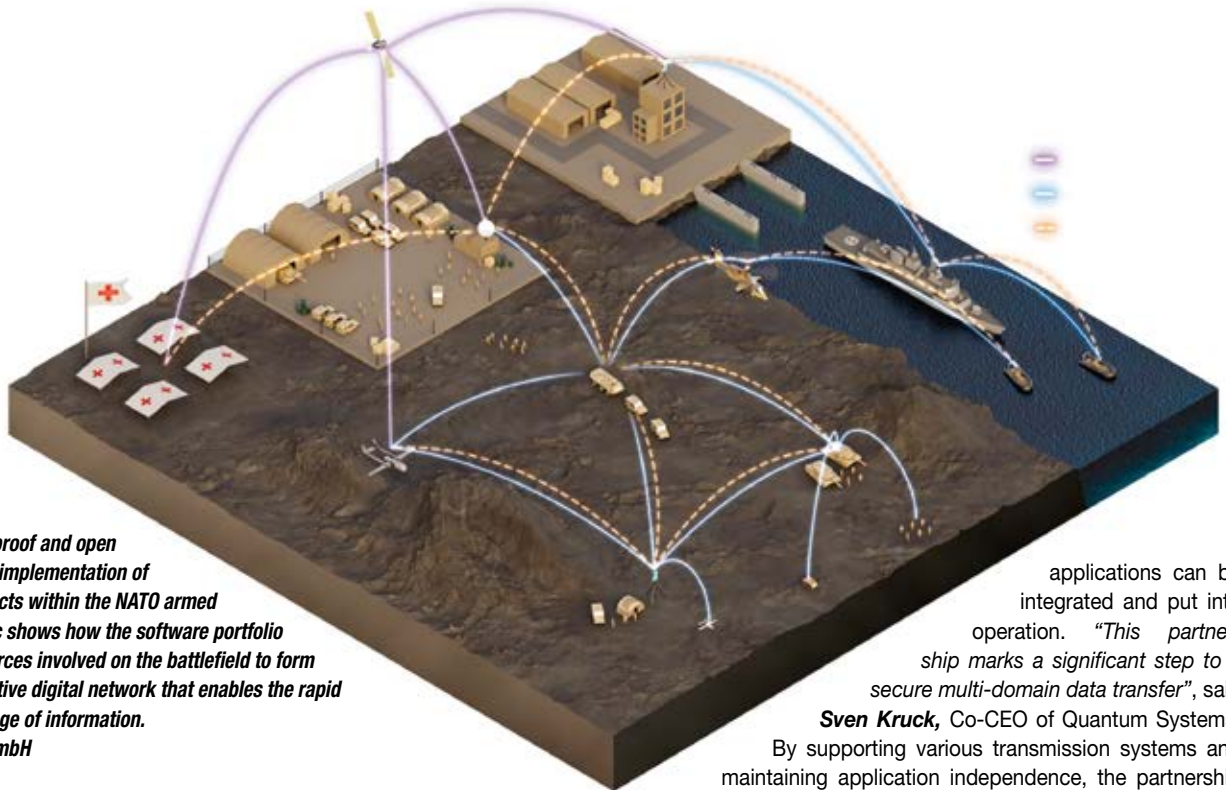


SICHERHEIT IST DIE MUTTER ALLER NACHHALTIGKEIT



Quantum Systems and blackned join forces to take Tactical Core Airborne and revolutionise battlefield connectivity

Hall 9
Booth 434



TACTICAL CORE

provides a future-proof and open framework for the implementation of digitalisation projects within the NATO armed forces. The graphic shows how the software portfolio can connect the forces involved on the battlefield to form an extremely effective digital network that enables the rapid and secure exchange of information.

Photo: blackned GmbH

Quantum Systems and blackned announced their intent to collaborate on the digitalisation and secure networking of unmanned elements in modern battlefield environments. This partnership aims to combine Quantum Systems' advanced multi-sensor unmanned aerial systems (UAS) with blackned's TACTICAL CORE Information and Communication Middleware, setting a new and advanced standard for operational efficiency and integration. The partnership underscores both organizations' commitment to innovation and providing military forces with cutting-edge solutions to navigate the complexities of modern warfare.

"The support of different transmission systems and the application independence ensure a high degree of adaptability, from manned and unmanned platforms to missions, use cases and systems already in use," noted **Dr. Joel Langenberg**, CEO of blackned. Based on open interfaces and software development kits, the most suitable third-party

applications can be integrated and put into operation. "This partnership marks a significant step to a secure multi-domain data transfer", said

Sven Kruck, Co-CEO of Quantum Systems.

By supporting various transmission systems and maintaining application independence, the partnership offers unprecedented flexibility for military operations. This opens a whole new world for the German Armed Forces, according to Quantum Systems.

Quantum Systems is at the forefront of artificial intelligence (AI)-powered unmanned aerial intelligence. Founded in 2015 and headquartered at Oberpfaffenhofen Airport near Munich, Quantum Systems operates globally with locations in the United States, Australia, Ukraine and Romania.

Since its foundation in 2009, blackned GmbH has specialised in the development of software-based defence solutions. With the tactical middleware RIDUX and the management system XONITOR, the company forms the core of an advanced architecture for the digitalisation of land forces. The digital ecosystem TACTICAL CORE, developed by blackned, provides a future-proof and open framework for the implementation of digitalisation projects within armed forces. (stn)



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FN Herstal at Enforce Tac 2025: Shaping the future of defence



FN Herstal showcases a wide selection of our cutting-edge products, spanning from ammunition, pistols, submachine guns, rifles, machine guns to less lethal solutions. Each category represents the manufacturer's commitment to unmatched performance, reliability, and adaptability in diverse operational scenarios. At the heart of this year's presentation are the FN EVOLYS®, FN Herstal's revolutionary ultralight machine gun offering unmatched ergonomics and adaptability; the FN SCAR®-SC, the subcompact rifle designed for close-quarter operations with superior modularity; and the FN 303® Tactical, a versatile less-lethal launcher combining precision, safety and efficiency.

FN EVOLYS® 5.56: Tailored for the challenges of today's battlefield, the FN EVOLYS in 5.56 calibre reshapes the role of machine guns in dismounted operations. Combining true firepower with an ultralight design, setting the standard for machine gun mobility. With its advanced ergonomics and reduced weight, the FN EVOLYS offers unmatched manoeuvrability, allowing operators to move swiftly and adapt to any combat environment. Designed to maximise operational efficiency, its ambidextrous selector ensures intuitive handling for all users, guaranteeing optimal weapon management in any situation. Its continuous top rail ensures maximum adaptability for the integration of optics and laser pointers, enhancing operational efficiency in both day and night conditions. The FN EVOLYS offers outstanding accuracy and firepower in a highly compact package, empowering frontline users to maintain control in dynamic engagements. Built to meet the evolving demands of modern warfare, it is the unique solution on the market for ultra-light support weapon acquisitions.

FN SCAR®-SC: The FN SCAR-SC carbine is a variant of the FN SCAR® rifle, designed to meet demanding requirements from US Special Forces. The 5.56x45mm FN SCAR®-L and 7.62x51mm FN SCAR®-H proved their outstanding reliability, accuracy and rugged build in combat operations. Their open architecture and modular design allowed adaptation to all kinds of missions with military, law enforcement, regular or special operations units. The FN SCAR®-SC subcompact version inherited the advantages of its parent design, with some specific features.



◁ **Reduced weight compared to in-service machine guns: the brand-new FN EVOLYS® 5.56 Ultralight Machine Gun combines the firing capabilities of a belt-fed machine gun with ergonomics and balance similar to an assault rifle, and complements the existing FN machine gun portfolio.**
All photos: FN Herstal

FN SCAR-SC is submachine gun sized but fires 5.56mm (.223) calibre or 7.62x35mm (.300 BLK). Interchangeable buttstocks adapt the weapon to the user's mission requirements, including one for use when wearing a helmet with a visor. The standard receiver has a full-length top rail integral to the receiver, side rails, and a lower rail. An optional version has a receiver adapted for mounting M-LOK interfaces for accessories. Commonality with the FN SCAR-L, FN SCAR-H and FN SCAR-H PR precision rifles simplifies training, and the high number of common parts makes logistics and armourer training easier. The FN SCAR has been very successful on the military, and law enforcement markets. The FN SCAR SC has been particularly well received by law enforcement.

FN 303® Tactical: Versatile, effective, and built for modern operational challenges, the FN 303 Tactical sets the standard for less-lethal solutions. Designed with precision and safety in mind, it delivers pinpoint accuracy up to 50m, ensuring controlled engagements in critical scenarios. With a high-capacity 15-projectile magazine a modular design offering top and side accessory rails and interchangeability with all FN SCAR buttstock features, the FN 303 Tactical adapts seamlessly to diverse missions. Its compressed air system ensures consistent, reliable performance without recoil, flash or excessive noise, providing confidence in every shot. (str)



△ **Extremely compact for use in confined spaces: the FN SCAR®-SC (Subcompact Carbine) is a complement to the renowned FN SCAR® assault rifles, grenade launcher and precision rifles.**
It comes in 5.56x45mm NATO or 7.62x35mm/.300 BLK calibre.



△ **The FN 303® Tactical is an upgraded version of the .68-caliber FN 303 less-lethal launcher, more compact, featuring a modular pistol grip and buttstock system.**

◁ **Full and semi-auto capabilities: the FN EVOLYS has been developed in two calibres, 5.56x45mm NATO and 7.62x51mm NATO.**

Rahmenprogramm **ENFORCE TAC** 2025

Name	Ort	Ansprechpartner/Durchführung	Datum und Uhrzeit
Enforce Tac Village	Halle 8	Überfall auf ein radikales Hacker-Hauptquartier Inländischer Einsatz zur Terrorismusbekämpfung	Mo: 10:00-10:20; 16:00-16:20 Di: 13:00-13:20, Mi: 11:00-11:20 Mo: 13:00-13:20 Di: 10:00-10:20; 16:00-16:30 Mi: 14:00-14:20
Generation Z – die Zukunft der Sicherheitskräfte	Halle 10	Dr. Bernd Bürger	Mo: 10:20-11:00
KI-basierte Bildanalyse mit Edge KI Drohnen im Mesh	Halle 10	Thomas Zügel – MINTMASTERS GmbH	Mo: 11:00-11:40
Produktvorstellung Hänsch MOWACOM – das mobile Warn- und Kommunikationssystem	Halle 10	Dirk Dumann, André Fasold – Hänsch Warnsysteme GmbH	Mo: 11:40-12:00
KI-gesteuerte Wahrnehmung für Drohnen in Umgebungen ohne GPS-Empfang: Fortschrittliche Verteidigung und Überwachungsmissionen	Halle 10	Dr. Stefan Milz, Dr. Georg Puhlfürst – Spleenlab GmbH	Mo: 12:00-12:20
TEM – Taktische Einsatzmedizin im Zeichen des Polizeialltags in einem Ballungsraum	Halle 10	Jörg Burkel – USK Freundeskreis Mittelfranken e.V.	Mo: 12:20-12:40 Di: 16:40-17:00 Mi: 13:20-13:40
Security Bunkers Alliance, ein führender Anbieter von Bunkern, Schutzräumen und deren Ausrüstung für die Verteidigungsindustrie	Halle 10	David Chrobok – Security Bunkers Alliance	Mo: 12:40-13:00
Startup Pitches hosted by BayStartUp	Halle 10	Johannes Wurm	Mo und Di von 13:20-14:45
Corporate Venturing im Verteidigungssektor Interview mit HENSOLDT Innovation	Halle 10	Johannes Wurm – BayStartUp Julius Rüdiger – HENSOLDT Quirin Herz – HENSOLDT	Mo und Di von 14:45-15:20
Die Zukunft(en) des Systems Engineering Tooling	Halle 10	Dr. Alexander Nyßen – itemis AG	Mo: 15:20-15:40
Die NATO und die nächste Generation von Gruppenwaffen (Next Generation Squad Weapons, NGSW)	Halle 10	Dr. Duncan Stewart – SIG SAUER	Mo: 15:40-16:00
Bedrohung aus der dritten Dimension	Halle 10	Henry Weinert – Securiton Deutschland Alarm- und Sicherheitssysteme	Di: 09:20-09:40
Die Zukunft der Arbeitshunde – Spürhunde 2.0	Halle 10	Florian Schneider – Kynotec GmbH Hans Ebbes – Kynotec GmbH	Di: 09:40-10:00
SAAT – Technologie für Kleinwaffenmunition	Halle 10	Marjan Boudenoodt – FN Herstal SA	Di: 10:20-10:40
Body Armour Komfort- und Mobilitätsbewertung	Halle 10	Jan Beringer – DuPont Specialty Products Operation Louis Boogh – DuPont Specialty Products Operation Christophe Djololian – DuPont Specialty Products Operation	Di: 10:40-11:00
Neue Textilien im Spannungsfeld zwischen Leistungsanforderungen, Tragekomfort und Nachhaltigkeit	Halle 10	Karoline Kronz – DuPont Specialty Products Operation Clara Sorel – DuPont Specialty Products Operation	Di: 11:00-11:20
Taktische Vorteile durch vernetzte mobile Nachrichtensysteme	Halle 10	Heiko Fimpel – PLATH GmbH & Co. KG Jakob Purrucker – PLATH GmbH & Co. KG	Di: 11:20-11:40
IP-Video-Streaming-Lösungen	Halle 10	Mark Rushton – VITEC GmbH	Di: 11:40-12:00
Überflügeln Sie die Drohnenbedrohung mit einfachen, effektiven und bewährten C-UAS-Lösungen	Halle 10	Alon Shantzner, VP Sales – Sentrycs	Di: 12:00-12:20
U.S. Army Futures Command (AFC) continuous transformation & how to collaborate with the U.S. Army	Halle 10	Lieutenant Colonel Benjamin Hormann – United States Army Futures Command International Technology Center-Northern Europe Alex Jimenez – United States Army Futures Command International Technology Center-Northern Europe	Di: 12:20-13:00
Sicherheit im Luftverkehr durch effektive Drohnerkennung und -bekämpfung	Halle 10	Pedro Gois de Brito Figueiroa – Rohde & Schwarz GmbH & Co. KG	Di: 15:20-15:40
Drohnen der übernächsten Generation und ihre Möglichkeiten und Grenzen im NATO-Sektor	Halle 10	Prof. Dr. Stephan G. Humer	Di: 15:40-16:00
Verteidigung Innovation ist der neue Imperativ	Halle 10	Jay Latta, Prof. Dr. Rafaela Kraus, Katharina Wagner, Dr. Christian Schneider, Oliver Block	Di: 16:00-16:40
Weniger tödlich & Innovation – Sicherstellung der Marktreife durch Compliance	Halle 10	Charlotte Villatte – DefenseWise SRL Fabio Ferretti di Castelferretto – DefenseWise SRL	Di: 17:00-17:20
QUICKSHIELD® – die Innovation gegen Angriffe auf Sicherheitskräfte	Halle 10	Florian Deuring – QUICKSHIELD® by 100 LIFE GmbH	Mi: 09:20-09:40
Soldaten gründen? Ja! Die Story hinter ArmyBug	Halle 10	Angelica Moser – ArmyBug Stephan Moser – ArmyBug	Mi: 09:40-10:00
Sicherheitsmanagement bei hochkarätigen Events & VIP-Schutz – Herausforderungen & Best Practices	Halle 10	Florian Tschernitschek – SF-Consulting	Mi: 10:00-10:20
Maximaler Augenschutz – Warum Kompromisse keine Option sind!	Halle 10	Maximilian Egger – gloryfy unbreakable eyewear	Mi: 10:20-10:40
Die Zukunft der Raumschießanlagen	Halle 10	Sinan Tepe – TWT Vertriebsgesellschaft UG	Mi: 10:40-11:00
Let's Talk Security	Halle 10	Jonas Brandstetter – Behörden Spiegel	Mi: 11:20-12:00
Quick Sleeve – Micro Splint: Miniature in size, Functions in Seconds	Halle 10	Uri Feldman – Palziv Inc.	Mi: 12:00-12:20
Wenn der Einsatz haften bleibt – weil das Erlebte nicht verarbeitet werden kann	Halle 10	Sandra Sommer – project: you – Traumasensible Beratung & Therapie	Mi: 13:40-14:00
Optimal assessment and selection of thermal imaging devices	Halle 10	Ralph Wilhelm – VECTED GmbH	Mi: 14:20-14:40

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