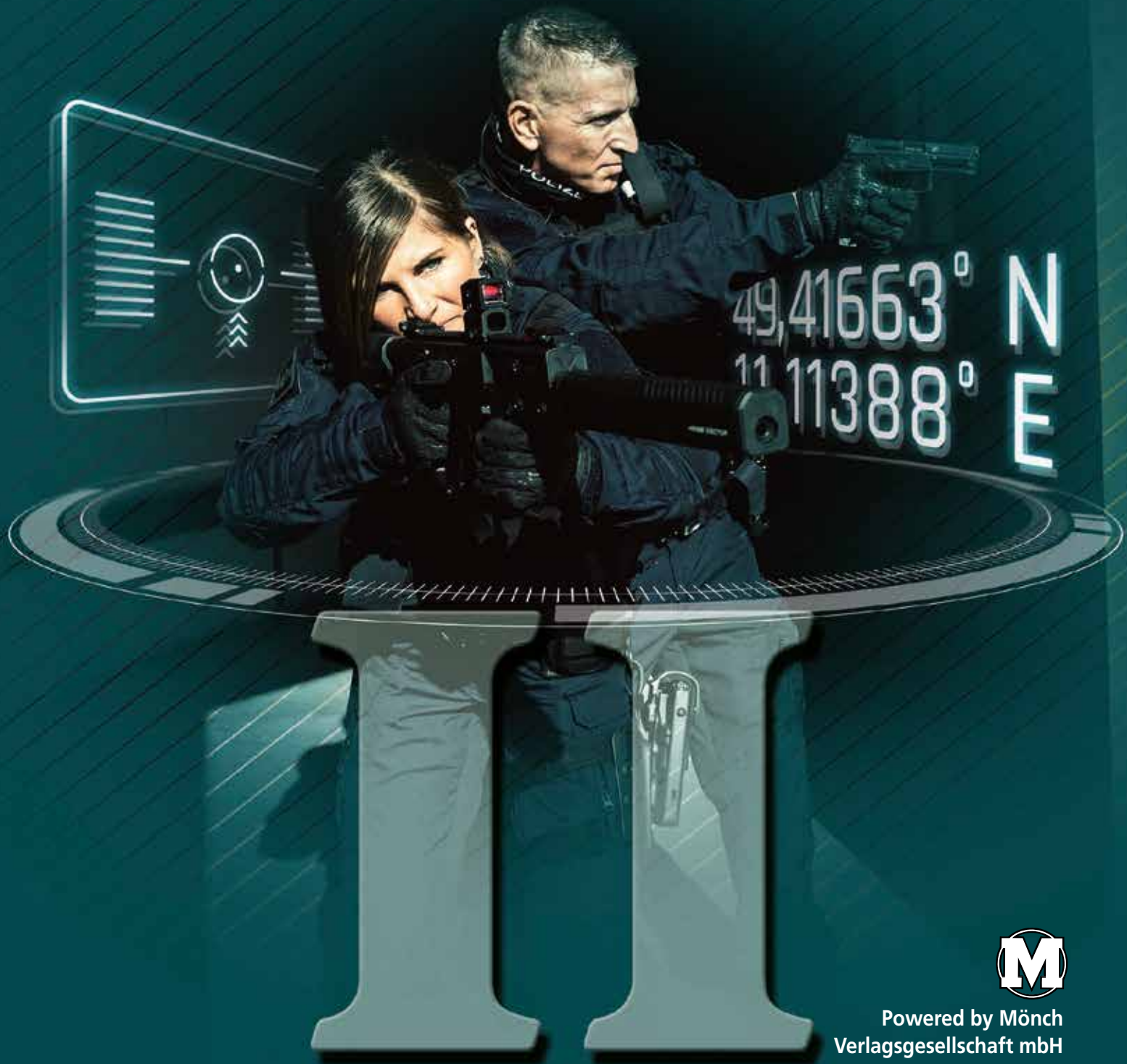


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European Policetrainer Conference

The European Policetrainer Conference (EPTC) is a two-day combination of lectures and professional training for members of official agencies with security and law enforcement responsibilities (police, judiciary, customs, etc.) and the armed forces.

EPTC is organised by the Policetrainers in Germany Association in cooperation with Nürnberg Messe.

Presentations are in German.

08:15-08:45h **Registration & Security check**

08:45-09:00h **Instruction; Staff stations 1 – 3**

09:00-09:15h **Coffee Break**

09:15-11:15h **Training on stations 1 – 3**

11:15-11:30h **Change of stations**

11:30-13.30h **Training on stations 1 – 3**

13.30-14.45h **Break**

14:45-16:45h **Training on stations 1 – 3**

16:45-17:15h **Training follow-up**

Station 1: Behaviour detection in practical application

Station 2: Defence against attacks /access in the short and medium range

Station 3: Counter Ambush Isolation Drills

Changes are possible due to the current situation.



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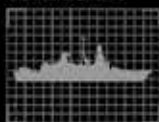


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Know When to Act – German Federal Police Takes on Complex Roles in a Fast-changing Security Environment

**A Show Daily
Interview with
Jürgen Hennig,
Senior Chief
Superintendent
and Head of
Police Protection
Diplomatic
Missions**



SD: *The deployment orders of the Federal Police's International Protection Tasks Unit (PSA BPOL), which was founded in 2008 and has been subordinate to Federal Police Directorate 11 since April 2017, are as diverse as they are top-class. The number of operations to protect German diplomatic missions has obviously continued to rise in recent years. How does the interaction take place within the Federal Police Directorate 11 (BPOLD 11)?*

Jürgen Hennig: While the Police Protection Diplomatic Missions office was originally set up in 2008 under the name 'Protection in Crisis Areas' (SIK) to provide personal protection at the German Embassy in Kabul/Afghanistan and later also at the German Embassy in Baghdad/Iraq take over, the areas of responsibility of the PSA department have gradually changed in the following years. First of all, the protection of property was taken over at the corresponding foreign representations in countries with a particularly dangerous situation and later also the security advice.

While this assumption of tasks was originally limited to countries with a particularly high risk situation, responsibility for all these areas worldwide has now been transferred to the PSA department. This means that the

PSA department is now represented at more than 80 missions abroad with security advisers, as well as property and personal security officers.

The subject of security advice in particular is becoming more and more important.

With the commissioning of the Federal Police Directorate 11 (BPOLD 11) in August 2017, all special units and specialized forces of the Federal Police were bundled under a single command in order to further strengthen the Federal Police's ability to react to crises and to ensure professional situation management for complex scenarios, in particular to combat terrorism and serious violent crime. The structure of BPOLD 11 offers opportunities for institutionalized exchange across hierarchies and authorities. There are fixed regulations in this exchange where it seems necessary. Of course, the PSA department also makes use of this bundling of expertise and the use of synergies in an adapted official environment or structure to manage its order and deployment situations.

An exchange between the employees of the departments and the staff areas of our directorate, for example in terms of operational management or technical innovations in the field of police technology/materials

management, takes place regularly or on an *ad hoc* basis and is expressly desired. Mutual personal or technical support services take place in an uncomplicated manner.

For example, in order to create a comprehensive picture of the situation for a country of operations, all accessible so-called sources are generally used. Our directorate is of course in a good national and international exchange of information in matters of police cooperation or creates modular evaluation products for the departments.

Stronger integration with other authorities and the use of inter-agency information technologies represent added value for us. PSA, for example, also obtains the relevant information from the security consultants worldwide. From this example, you can see the considerable relevance of the interaction between the departments and the staff departments in order to gain and process high-quality and useful knowledge. As BPOLD 11, we therefore have the ability to obtain information relevant to task fulfillment and to carry out a tactical/operative situation analysis/evaluation. For our office and of course also for the BPOLD 11, the professional fulfillment of orders and the safety of the forces deployed always have top priority. We achieve these goals together.

SD: *In dealing with this range of tasks, threats that continue to emanate from non-state actors must be considered. How do you predict how education, training and education will be affected?*

Jürgen Hennig: In principle, it can be said that the forces of the PSA unit are deployed exclusively in countries where threats from non-state actors are to be expected. If a threat from state actors is to be assumed, it would be a case of a war or civil war-like country.

In order to be able to act *vis-à-vis* non-state actors in this area, it is important to have good information management. Networking is the

keyword here. One of the tasks of our security consultants is to form and maintain local networks. Certainly, there are also good situational awareness products received from governmental and non-governmental organizations that are or can be helpful for the fulfillment of tasks.

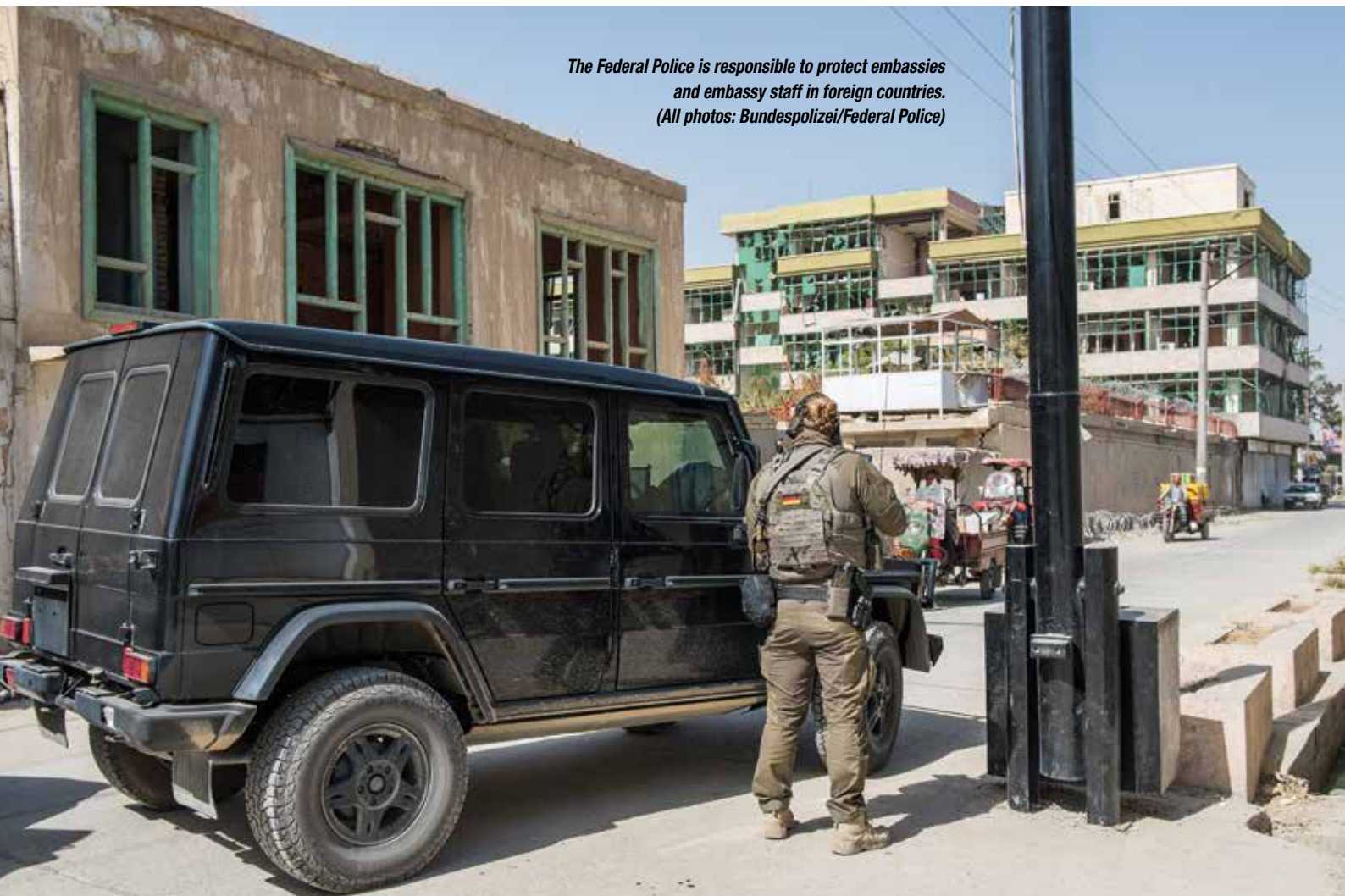
As an example, you could add OSINT (Open Source Intelligence) research that is now an integral part of creating a situational picture. As a result, we try, as stated in my answer to your first question, to collect and evaluate the situation and use it for our mission.

Here, of course, special attention is paid to the changing *modi operandi*. According to the respective threat scenarios, the training and operational equipment of the emergency services is constantly being adapted. This takes place in close cooperation with the departments of BPOLD 11, as well as with our national and international partners.

Our aim is to make the training scenarios realistic and to adapt them to the current situation. Globalization, the networking of the world and the short cycles in all areas of life present us with challenges in terms of threat scenarios.

As has already been pointed out, ascertaining and evaluating the situation is an essential element, but developments are always difficult to predict. In this respect, when it comes to equipment and training, we strive to be prepared for the unforeseeable as best we can. Today, for example in personal protection, we have to professionally map various skills that years ago were not part of the core competence of a personal protection team. As part of the further training in the sense of preparing for an assignment, it is also essential for us to deal with the history of the country, daily politics, the people living there and the cultural peculiarities in a targeted manner. For the fulfillment of the order, it is essential to continuously evaluate education, training and further education and to adapt it to the needs.

**The Federal Police is responsible to protect embassies and embassy staff in foreign countries.
(All photos: Bundespolizei/Federal Police)**





The PSA department uses foreign conditional multi-equipment, including lightweight ballistic helmets and ballistic plates for improved personal protection.

SD: How important is operational training anyway?

Jürgen Hennig: The Federal Police Academy is basically responsible for basic and advanced training in the Federal Police. As a department, we have had very good experiences with independent specialist training. Nevertheless, there are always specialized topics that we are currently unable to cover independently. Here, the departments of BPOLD 11 support each other or we ask for support from other departments of the Federal Police. A good example is dealing with stress, stress control and coping with stress or the psychological follow-up of assignments.

In addition to the appropriate equipment with suitable management and operational resources, operational (needs-based) training and education naturally represents the basis for professional fulfillment of the order and is ultimately also the best life insurance for our strengths.

Due to adjustments and innovations of equipment, as well as the further expansion of the night guard capability, we were forced to extend our usage training. The actual process begins with the selection of personnel. Less than half of the applicants successfully complete the selection process. After further training as a bodyguard, usually no more than a third of the applicants remain. In addition, the performance of our officers is checked before each departure to a country with a particularly high risk. Further education, training and further education are constant companions of a bodyguard in our office.

SD: How do you ensure that units are getting what they really need for their operational commitments?

Jürgen Hennig: In addition to the availability of personnel, the modernity and functionality of the materials used determine the appearance of the PSA BPOL unit. Our trainers have all worked for PSA themselves and are also regularly deployed at German missions abroad.

This prevents training that does not meet the need or only partially receiving suitable management and operational resources. As already mentioned, there is a constant evaluation of the operations, in particular

the *modus operandi* of our vis-a-vis adversaries. The experiences that we had to gather, for example, from the attacks on the German Consulate General in Mazar-i-Sharif on 10 November 2016 or on the German Embassy in Kabul on 31 May 2017, naturally flow into the decision-making processes of the agency. Our tactics are adjusted accordingly and the management and operational resources required to deal with the situation are procured. In our office, for example, we have an officer who deals very intensively with the subject of firearms. It forms the interface between tactics and police technology/material management (PT/MM). It is essential that the employees of the two areas are in close contact. This approach to covering needs is representative of medical equipment, means of communication, clothing or even specially protected vehicles. The PT/MM department is therefore in constant contact with the personal/property guards deployed in order to check the suitability and availability of the needs identified through market surveys, visits to trade fairs and consultations with specialist departments of other Federal Police departments.

The constantly improving technology of weapons and equipment does not stop at the police counterparts, which means that adequate equipment for the officers deployed is absolutely essential to guarantee the protection of the foreign office's delegates and the security of each individual.

The rapid development in the field of night vision technology, ballistic protection and ammunition can be mentioned here as an example.

The exchange with partner units in Germany and abroad also plays an important role. In the procurement of management and operational resources, the public administration depends, among other things, on the budgetary funds made available. It is important to keep several budgetary principles in mind. From my personal point of view, it would be desirable to shorten or streamline procurement channels in order to obtain needs-based equipment more quickly. In principle, however, it can be said that the employees of the PSA department are professionally equipped.

SD: What capability gaps need to be eliminated in the upcoming years and where do you prioritize important procurement and selection decisions?

Jürgen Hennig: Threat scenarios have also evolved in recent years. The topic of threats from drones (Unmanned Aircraft Systems; UAS) has become increasingly important. The problem here, however, is that this threat can only be averted with technical assistance. Here, we are partly dependent on the further development of the industry to obtain solutions that are adapted to the area of application.

Today, we are already very far in terms of ability and equipment in medical first aid. Nevertheless, it is essential to closely follow topics such as Tactical Combat Casualty Care (TCCC) or Prolonged Field Care (PFC) and „stay on the ball“.

In the future, it is conceivable that specialists, particularly from the areas of communication, decontamination and IT specialists, will be part of our team so that we do not necessarily have to resort to external support. Here, too, our office is in close contact with other departments and uses these competencies.

SD: When it comes to the selection of personal equipment, how does the cooperation with other specialist departments or departments work?

Jürgen Hennig: All PSA emergency services are provided with official management and operational resources (FEM) as „man equipment“. Every official can choose the FEM necessary for himself and the respective situation management from a broad portfolio.

As already said, we are reacting to the police situation. Personal equipment is a matter of the heart – a trusting exchange between emergency services and the members of the PSA leadership group takes place immediately. Requirements are coordinated in close coordination between the responsible departments of the Federal Police Headquarters, the BPOLD 11 and the SG PT/MM PSA.

SD: How can you contribute to accelerating procurement processes?

Jürgen Hennig: Specialist knowledge of procurement law and procurement channels is always helpful. However, the decisive factor is a precise and plausible description of the needs. In simple words: explaining what I need helps immensely. The next official instance must be able to understand my needs. The creation of a document characterized by tactical, technical and operational requirements on the basis of operational tactical needs is essential here. Accompanying the procurement application by the creator is required. There may always be queries or additional information must be provided.

SD: What role does cooperation with industry and other service providers play in the selection of equipment and in the procurement process itself?

Jürgen Hennig: In the Federal Police Headquarters, specialist departments deal

with the procurement and testing/researching of management and operational resources. In our directorate, we have a staff department that can continue to follow up the procurement processes initiated by the PSA department or can also terminate them. This is how the requirements are met – hand in hand with the PSA department. The special feature is that most of our command and control equipment or tactical clothing is usually only intended for use in PPE, e.g. in countries with a particularly high risk situation.

In my opinion, it is therefore absolutely necessary that we should have contact with industry in strict compliance with procurement law. This is usually done when visiting trade fairs.

It is not uncommon for us to find solutions or approaches to solving our challenges here.

As a result, it is crucial for me that our employees are optimally equipped to be able to carry out their assignment professionally. ■



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A Revolution Comes on Stream



The F3-TLC offers a high-end solution to the most demanding requirements. (WELP Group)

Farmingtons Automotive GmbH, a subsidiary of **WELP Group**, headquartered in Georgsmarienhütte, and **Franz Achleitner Fahrzeugbau und Reifenzentrum GmbH** in Austria have agreed a collaboration in armoured vehicle technology. The companies will jointly develop and manufacture the new Toyota Land Cruiser 300, a vehicle that has earned a reputation as one of the most capable off-road 4x4s in the world. Both companies are known for long-standing reliable expertise and the highest industry standards, creating clear added value for their global customers in military and security forces, non-governmental organisations and non-military authorities. The cooperation is to accelerate the development and production of a full-fledged armoured vehicle with VPAM BRV VR7 Version 3, VPAM BRV VR9 Version 3 and ERV protection [VPAM standards are widely recognised in the armoured vehicle industry]. Leveraging state-of-the-art technology, including an OEM-certified chassis and a bolt-on protection system, the Toyota Land Cruiser 300 is designed to cope with the operational profile of any of today's and tomorrow's most challenging scenarios, threats or rapidly-evolving situations. The companies' bespoke in-house technologies – such as hot-forming – as well as in the chassis development centre and ballistic laboratory, provide the essentials for a long-term cooperation in a changing market segment. (str)

Andres Industries Premieres PumIR-6M Thermal Clip-On

booth#: 12-302

With the PumIR-6M, which is extremely small for 35mm optics, **Andres Industries AG** is opening a new chapter in the design of thermal clip-ons. When conventional attachments are mounted in front of a high-magnification scope, such as those used by DMR or snipers, often only a greatly magnified section of the thermal imager's screen can be seen. The viewing angle is uncomfortably narrow and the image quality poor. Even modern battle sights such as the ACOG with 4x magnification have problems here, as they do not have a zoom function. With the PumIR-6M.5, Andres Industries now presents a solution precisely for this user group. Here, the sensor image on the display is optically reduced by a factor of two. **Dr Björn Andres**, CEO of Andres Industries, comments. "Thus, even with the Trijicon ACOG 4x32, an image of the entire sensor width is possible with an unrestricted resolution of 640x512 pixels. If the device is precisely collimated onto the weapon by the shooter, even the electronic zoom levels up to 8x can be used. This is also not the case with conventional devices. Through the integrated AI upscaling and subpixel collimation (SPC), scattering circles of 8cm at 500m are achieved."

The PumIR also impresses with its detection range; although the device already has a range of 2,000m in its basic configuration, this is



Comparison of conventional attachment (left, 36mm focal length) and PumIR-6M.5, at the same range but offering a much wider angle of view and improved sharpness. (Andres Industries)

doubled to 4,000m, thanks to a 2x attachment lens. The PumIR automatically detects that an attachment lens is being used, and uploads the corrected collimation data from the memory. This is possible for up to six weapon-optics combinations.

The PumIR-6M has a particularly flat design, which allows the simultaneous use of reflex sights on the scope behind it, but also on the PumIR directly. The military version is suitable for direct mounting on a Picatinny rail, the civilian version PumIR-6Z+.5 can also be mounted directly on the scope, using a Rusan adapter or similar. (apf)

ENOK AB and Enforcer Concept

MBDA Germany and **ACS Armoured Car Systems GmbH** are showing a concept at Enforce Tac, integrating a lightweight guided missile system onto a light airborne 4x4.

The ACS ENOK AB (Airborne) is being presented at the show, integrating a corresponding missile launcher on the vehicle's roof. This contains two MBDA Enforcer guided missiles which, in the Bundeswehr, is being introduced as the 'Leichtes Wirkmittel 1800+' with the Kommando Spezialkräfte (KSK) as a light, shoulder-launched guided missile system for infantry operations. The concept package weighs about 150kg but, according to MBDA, could be made even lighter. It is operated via a hardened tablet. (apf)



MBDA booth#: 12-576

ACS booth#: 12-305

Aimpoint Charts a New Course for Acro Series Sights

Interview with Jonas Ardemalm, Director Professional Sales, Aimpoint

Aimpoint's Acro series of red dot sights is generating significant interest at Enforce Tac. Last year, the company advanced the standard for pistol-mounted optics with the release of the Gen 2 Acro red dot sight, meeting the demands of modern law enforcement agencies. Jonas Ardemalm, who serves as Aimpoint's Director of Professional Sales, talked to *Show Daily*.

SD: Can you please explain the reason for releasing the second generation Acro sights?

Ardemalm: As we work very closely with our customers, we listened to them and agreed that the Acro sight might need a longer battery life. At the same time as we developed that, we took the opportunity to redefine a lot of the features of the Acro second generation sight.

Aimpoint engineers succeeded in getting the same battery life as with the well-known Micro T-2 series using the larger CR2032 battery. This means that some units only need to have one type of battery in inventory, and Aimpoint engineers managed to fit a larger battery into the sight while keeping it accessible to the user and maintaining the same compact footprint as the Acro first generation – a daunting task that only our engineers could achieve. This next-generation sight incorporates an improved LED emitter, coupled with a higher capacity CR2032 battery, to provide an astonishing five years (50,000 hours) of constant-on power.

SD: Astonishing! What concept lies behind the new solution?

Ardemalm: We took the opportunity to improve the already very good Acro P-1 with new features. The new high-efficiency LED emitter (30% brighter on all daylight settings) provides a bright, crisper 3.5 MOA dot. Protective clear front and rear glass lenses guard the advanced reflective lens system. The new digital intensity adjustment keypad provides a more distinct tactile feel when adjusting the dot intensity, and these controls are now placed next to the battery compartment, to help protect power adjustments against unintentional changes. The recessed edges of the



housing at the front and rear of the sight allow for additional flip-up lens covers when mounted on a PDW, carbine or shotgun.

SD: What are the specific uses of the new product, and how does it differ from its predecessors?

Ardemalm: To meet the high expectations of professional users, the Acro P-2 is built and tested to withstand extreme environmental stress, and is submersible to 35m of water depth. The mounting interface for the second-generation Acro is the same as its predecessor, with a one-piece adapter plate for mounting directly to the optic-ready pistols. The sights can also be mounted on Picatinny rail interfaces with a quick, detachable mount, available in various optical-axis heights. And several adapter plates are available, including a plate for Micro mount interface, allowing compatibility with all Micro sight mounting solutions.

Primarily designed for use on handguns, the Acro sights can also be mounted on carbines, shotguns and hunting rifles, or used as a backup sight on magnified scopes and thermal imagers. These versatile optics are night vision compatible, and are the ultimate solution for extremely low-profile, compact sighting needs.

SD: The big question: what is the demand for the new sight?

Ardemalm: The demand is huge, and the market is realising the benefits of the product, which can be used on multiple weapon platforms. Our customers require a rugged handgun optic that just works in all conditions – which is exactly what the Acro sight does.

SD: What is your marketing strategy?

Ardemalm: We want to communicate the versatility of the Acro series. It is a product that can be used on handguns, PDWs, carbines, shotguns and hunting rifles, and it can be used as a backup sight on magnified scopes and thermal imagers. The sights of the Acro series are night vision-compatible, and are the ultimate solution for extremely low-profile, compact sighting needs. It is the smallest product in the Aimpoint portfolio, rugged enough to carry the Aimpoint name. *(Interview – stn)*

◀ **Aimpoint sees the demand for the Acro P-2 sight as "huge." (Aimpoint)**



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We make sure that, on the way to Zero Emissions, the intermediate steps of energy system change for a more sustainable future are considered. With our pragmatic solutions, we also enable ways to already switch to renewable energy now. AXSOL stands for technology, innovation, and holistic thinking - thus we contribute our part to the realisation of energy transition.

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AXSOL stands for technology, innovation, and holistic thinking. (AXSOL)

Boom Times for ARCAS



ARCAS is intended for use by conventional infantry units and SOF to facilitate rapid target acquisition in a variety of combat situations. (Stefan Nitschke)

The future is already here: that's the situation for **Elbit Systems Deutschland's** Assault Rifle Combat Application System (ARCAS). The demand for this technology remains unsurprisingly high in the dismounted infantry and special operations forces (SOF) domains. As is clearly illustrated globally, the range of special operations being conducted in the contemporary operating environment spans almost every conceivable task, from covert close protection missions and special reconnaissance tasks, through to 'support and influence' operations and more kinetic direct action assaults. All this requires advanced computerised solutions that allow for improved effectiveness and survivability of the individual combatant.

ARCAS, a built-in computerised system employing artificial intelligence, interfaces with the assault rifle's electro-optical (EO) sight, and with a helmet-mounted eyepiece, according to Elbit Systems Deutschland's Key Account Manager, **Daniel Scheer**. Transforming assault rifles into digital, networked weapons, ARCAS provides infantry forces and SOF with significantly enhanced combat capability, including: passive range measurements; automatic ballistic correction, detection of sources of fire; and video motion detection. Scheer confirmed that ARCAS has been designed in an open architecture approach, allowing interfacing to any existing EO sight. He also stated that ARCAS' unique technology offers users the ability to shoot around the corner – an attribute that helps increase the dismounted soldier's lethality, mission effectiveness and survivability. ARCAS is seen as a powerful tool that speaks to the user's operational needs and requirements. (stn)

Streamlight's TLR-7 sub Hellcat

booth#: 12-450

Streamlight is showcasing a new model of the ultra-lightweight TLR-7 sub weapon light at Enforce Tac 2022.

This new model features a specialized clamp that allows for mounting to the popular Springfield Armory Hellcat subcompact handgun. It has ergonomic on/off position rear switches on the left and right of the trigger guard (allowing for ambidextrous operation) and high-power LEDs for maximising visibility and targeting capability in personal defence and other tactical situations.

The TLR-7 sub delivers 500 lumens and 5,000 candela over a beam distance of 141m, and offers two lighting modes – LED only or LED strobe, each with a run time of 1.5 hours. It is powered by a single 3-Volt CR123A lithium battery, which can be replaced without having to remove the light from the weapon. Constructed with machined aircraft aluminium, the TLR-7 sub weighs just 67.8 grams.

DND Anticipates Launch Customer for RGW 110

Heard on the fringes of Enforce Tac, SD understands that **Dynamit Nobel Defence (DND)** may be expecting a launch customer for the RGW 110 by the end of the year – and that the customer may be Hungary, rather than the Bundeswehr!

If so, it is likely that substantial parts of the production would be conducted in Hungary – partially to meet the customer demand for local content but also, frankly, to ease the production capacity issue DND currently has, with its main factory in Germany operating at full speed.

The upcoming RGW 110 will extend the RGW family of shoulder-launched infantry weapons into the 110mm calibre. The weapons – direct successors to the celebrated Panzerfaust 3 – feature the most lethal and effective warheads for this class of weapon and will provide the new benchmark in defeating current and next-generation main battle tanks.

Hungary has yet to select the optics to be used, and DND seeks to replace the current optic mount with a flexible, longer multi-rail to offer even greater flexibility in this respect. Design of the spike is also likely to be changes, with a likely move to a multi-part device in future. (apf)



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Cold Skills – Transport Solutions for Snow Conditions



Compact, lightweight and camouflaged – Fjell Pulken ready for departure.
(André Forkert)

Swedish company **Cold Skills** is showing its 'Fjell Pulken' transport solution for infantry operations in snow conditions at Enforce Tac. Translating as 'Mountain Pulken,' a pulk is a type of sledge without runners.

Camouflage for both IR and UV conditions from Taiga Military in Varberg – for whom Cold Skills is an authorised distributor – was integrated onto the vehicle, which weighs less than 5kg and can be pulled by a single individual using a waist belt. Used primarily for transporting materiel and food during long range patrol missions, it can also carry wounded soldiers if necessary. The sledge is available in lengths of 154, 168 and 188 centimetres.

W+R PRO Promotes New Winter Glove System



Main glove
Outer shell

◁ **Winter gloves – flexible in use and available in several layers if needed – reliably protect the user's extremities from even the coldest conditions.**
(W+R PRO GmbH)

booth#:
12-329

W+R PRO GmbH, a **W+R Group** company, is recognised for its tactical gloves for military, police, LEAF, special forces and other government authorities, in Germany and throughout Europe. At Enforce Tac 2022, the company is offering a new development in the field of variable glove systems for cold conditions. The various winter glove systems reliably protect the user from the cold, even at the lowest temperatures, and can be used in several layers while retaining flexibility. The various glove systems use different materials, different insulation weights and varying technical features, to make them reasonably reliable for the end-user. As an example, the winter glove system can consist of a mitten as an outer glove with a five-finger main glove, manufactured with heavyweight professional insulation and additional antibacterial lining, and can be extended with a thin, windproof base liner glove or, if needed, with a mid-layer.

Another new development showcased at Enforce Tac 2022 is the X-BEAM tactile search glove from KinetiXx, a W+R brand. The product is characterised by a perfect fit and a high measure of comfort. The lightest tactical glove in the KinetiXx collection offers users optimal dexterity, and fits like a second skin. The X-BEAM is therefore the ideal glove for a wide range of tactical operations. The range of tactical gloves is further extended by the short-fingered KinetiXx X-RA. Featuring a soft protector on the knuckles and a palm made of goatskin and synthetic leather for good grip, this glove is perfectly suited for tactical operations in warmer regions and weather conditions. (stn)

Gore Tex – More Flexible Rain Protection

Gore Tex is showing a wet suit made of stretch material for the first time. It is intended to provide greater comfort and freedom of movement and the design is quite minimalist – pure moisture protection, without a lot of frills. Great emphasis has been placed on significantly higher durability of the material, when compared to Spandex, achieved by positioning the membrane between the outer and inner fabric. This also makes the camouflage print more resilient, and has also made it possible to save considerable weight. The zips are positioned on the sides, to allow access to the uniform even with a plate carrier. The moisture protection suit can be worn under or over the plate carrier, an issue that was taken into account in the cut.



The 'wetness protection' suit on display at Enforce Tac.
(André Forkert)

Ulbrichts Offers Head Protection for Rifle Rounds

booth#: 12-389

The goal of **Ulbrichts Protection** is to stop both handgun and rifle bullets, thereby preventing lethal trauma.

The company is introducing the next generation of head protection and achieving this goal – while simultaneously reducing weight.

With its new products, the Austrian company is targeting both first responders and military personnel, at a time when terrorist threats, riots and increased acts of violence against police officers remains high. The Ulbrichts Protection team has conducted intensive research and testing in recent months, developing a new generation of ballistic titanium helmets as a result, featuring three new products.

The new Centurion helmet will offer protection against handguns and rifles according to VPAM 6 as a 'stand-alone' – ie no additional protective



◁ **Next-generation head protection from Ulbrichts ow also provides protection from rifle fire. (Ulbrichts Protection)**

shield is required. To date, the existing VPAM 3 helmet offered protection against handguns, but not against rifle fire.

For situations in which standard protection is sufficient, the company has reduced the weight to a level at which today helmets are optimised purely for weight, not for protection from certain bullets. The new JUMP helmet, with protection to the VPAM 3 HVN 2009 standard, weighs only 1.25kg, and is therefore particularly suited to highly dynamic missions.

Last, but not least, the design of Ulbrichts helmets has been completely revised. Not only have protective area and weight been optimized, but ergonomics, dynamics and functionality have all been improved. And at Enforce Tac, you can try them out!

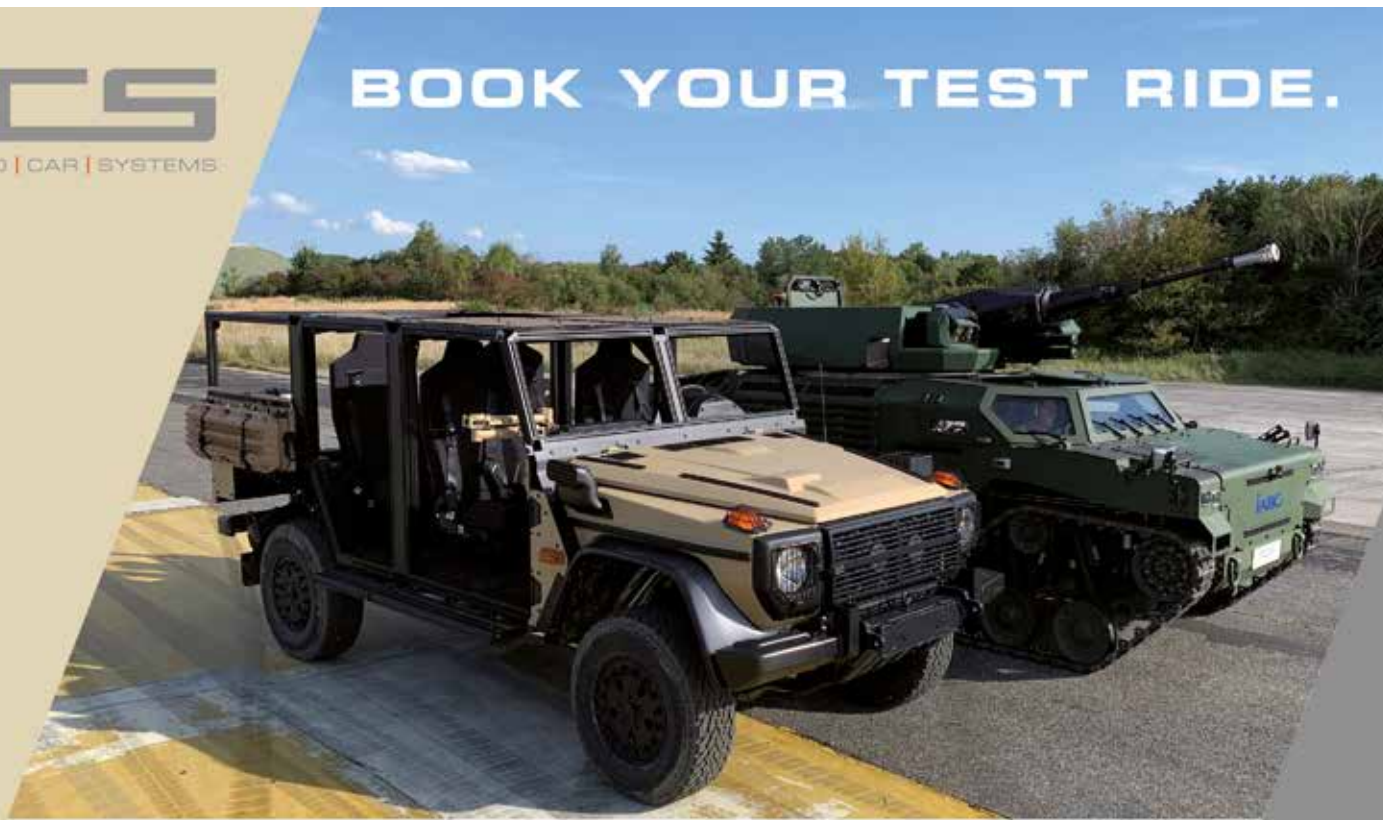
(apf)

For a brief video introduction to the company, use the code.



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booth#:
12-305

ACS in the Spotlight: Protected Mobility

Protected vehicle technology faces new challenges in the 2020s. The latest protected mission vehicle platforms from **ACS Armoured Car Systems GmbH**, available with varying levels of protection, are designed to resolve conflicting demands in mobility, modularity, protection and payload capacity. SD spoke with **Sebastian Schaubeck**, Managing Director of ACS since 1 January 2021.

SD: How do you see the European opportunities for your flagship ENOK family of protected mission vehicles?

Schaubeck: Our ENOK portfolio fits the requirements of 'light land forces'. Therefore, we also see potential across Europe, not solely in Germany. We are in discussions with other NATO nations regarding our ENOKs. Our approach – an OEM chassis plus a customised body – gives us an excellent price point, including any adaption to the customer's requirements.

SD: You set standards with ENOK. What are the major challenges you face selecting and integrating new protective materials?

Schaubeck: I think the challenges have not changed that much. Protection is needed, but it costs money and payload. So, protection will always be a compromise in vehicle concepts, from our point of view. The payload requirements are increasing everywhere. Our answer to this spread is 'modularity'.

SD: Are customers perhaps setting standards that are too difficult to meet?

Schaubeck: We have a lot of sympathy with the Ministries of Defence. It is really a complex job to prepare and then execute a tender, and to think about all possibilities what can and will happen. We see a lot of tenders with unrealistic demands. There are some 'loose cannons' who may respond to those tenders. But most of those projects fail. Either the



(ACS)

cost massively increases, the project runs out of time, or the user does not get what he thought he would. On the other side, we do see projects with a very pragmatic approach. In this case, industry must not let the customer down. We always try to communicate as transparently as possible, to ensure very clear management of expectations.

SD: More generally, how will protected vehicle technology have changed by 2028 or so?

Schaubeck: I do not expect too much change in our segment, to be honest. Major changes are possible, but COVID will make any budget sensible. So, I do not expect major changes. If there are projects with larger quantities, protection will be optimised, but we do not see any revolutionary technology taking over.

SD: So, what do the next five years hold for ACS?

Schaubeck: We are currently broadening our portfolio. We want to become a competent partner for 'light land forces'. This includes two-wheel mobility solutions, as well as four wheels. We want to offer solutions from 100-10.000kg GVW [gross vehicle weight]. Our highly modular ENOK AB (airborne)

has been chosen by three European nations so far, and we are in discussions with more nations. A protected ENOK AB is currently in the design stage, and we plan to test the prototype later this year. Vehicles in the 4-9t class will remain our main focus.

SD: E-mobility is becoming more crowded with new entrants.

What are your thoughts – and how is your cooperation with France's Electric Motion progressing in their EMU e-bike project?

Schaubeck: We are convinced that pricing will be an important factor, so we do need a civilian base. We are also convinced that we, as ACS, cannot do everything by ourselves. Electric Motion is an absolute expert in trial bikes: they build excellent products, ACS is taking over the sales for Germany, Austria, Switzerland and the Netherlands, and is 'militarising' the bikes. The EMU bike has been in testing with the German armed forces and police for several months, with excellent feedback. We are currently negotiating initial orders.

(Interview – strn)



ENOK AB (airborne), designed with modern special forces in mind, features a GVW of 4,800kg, of which 2,000kg is payload. (Stefan Nitschke)

Leonardo Showcases Bundeswehr's New Main Combat Sight

Leonardo Germany GmbH is showing the new main combat sight (Hauptkampfvisier, or HKV) for the Bundeswehr's as yet unselected assault rifles. The weapon is intended to replace the HK G36 now in use, and the sight is an adaptation of the ELCAN Specter DR 1-4x.

Also on display is DFCS with a magnification of 1-8x. A disturbed-reticle and a laser rangefinder are integrated. After range measurement, aiming is automatically corrected. There is interest from the Bundeswehr to equip the so-called ZF-rifleman (ZF – Zielfernrohr, or rifle scope in English) with it. These are riflemen who operate at long ranges, but have not undergone full sniper training.

Also on display is the IWS17 individual weapon sight – already under contract and in the process of being delivered to the Bundeswehr.



The HKV will equip the Bundeswehr's new assault rifles, when they are finally selected. (André Forkert)

In an entirely different environment, Leonardo's BriteCloud EW jamming/deception system will be used by the Bundeswehr on both the Tornado and Eurofighter aircraft. It operates by simulating an aircraft's signature in order to deflect incoming threat projectiles. The device has already been integrated onto F-16 and F-35 aircraft and is also available for the A400M. (apf)

Engineered for Performance

booth#: 12-249

When **5.11 Tactical** designed the A/T boot series, it wanted to build a boot that provides agility, stability and durability. The A/T boot series encompasses various models, each built for a specific environment and purpose, such as the 5.11 A/T 8" NZ WP, that has a waterproof suede and nylon upper with a Tac Dry and BBP membrane to keep feet protected and dry; or the 5.11 A/T 8" HD, with a heat-reflective strobol sock and perforated tongue for added breathability and air flow. The HD is ISO 20347:2012 OB FO HRO SRA certified.

The secret of the A/T boots, however, is in the soles. Composed of four layers, they offer a protective platform: an Ortholite Comfort Foam Footbed for cushioning; a removable All Terrain Load Assistance System (A.T.L.A.S.) plate for structure and support; a Dual Density PU midsole with 5.11 Echo high rebound foam in the forefoot and 5.11 Force



shock-absorbing foam in the heel; and a slip-resistant outsole with aggressive tread pattern for optimal traction. Good slip-resistant tread patterns on the outsole are vital to minimise the risk of – or the severity of – a slip in demanding conditions. They should work on a variety of surface textures and in all weather conditions. Another important component of the grip is the rubber compound used for the outsole. The compound mix defines the stability of the outsole, its softness in different temperatures and its performance on wet or dry surfaces. (stn)

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Woolpower and ACLIMA Show Nordic Combat Uniform Components



The WoolNet shirt is being shown as a prototype at Enforce Tac.
(André Forkert)

It was only at the beginning of February that the contract for the high-profile military clothing project for the Scandinavian armed forces (Norway, Sweden, Denmark and Finland) – the Nordic Combat Uniform (NCU) – was signed.

Parts of the system can now be seen at Enforce Tac. For example, **Woolpower** and **ACLIMA** will be showing the cold weather protective clothing and underwear respectively. Woolpower will supply the Turtleneck Longsleeve vest and the long johns in 200g pine green material. In addition, there will be a jacket (with full-length zipper) in 400g weight. Woolpower is already supplying the Bundeswehr with the Turtleneck Longsleeve vest and long johns in 200g as well as long socks in 400g material.

ACLIMA supplies the Light Wool T-Shirt (short-sleeved), boxer shorts, sports top and the WoolNet shirt. The latter is still being shown as a prototype at the fair. The Scandinavian contract has a term of seven years. (apf)

SAFRAN's JIM Compact Binocular Offers First-Class Situational Awareness

As many of us remember, **SAFRAN** unveiled its JIM Compact (JIMC) binocular, fitted with new 'Long Range Sniper' (TELD) functionalities, in April 2019. The device now showcased in Nuremberg forms part of the extremely successful JIM family of portable, multifunctional binoculars. It builds upon the unique technology also found in the renowned JIM LR (Long Range). JIMC is suitable for all-weather observation, as well as engagement and precision target location. SAFRAN has made it very compact and even more functional. The binocular is a lightweight solution, best suited for high-mobility operations on the digital battlefield, with the device weighing under 2kg, including rechargeable COTS batteries. SAFRAN stated earlier that JIMC, with TELD functionality, has already been delivered to the French Army. Meanwhile, the product was selected by the Bundeswehr, a SAFRAN representative noted yesterday. JIMC offers several innovations, including daytime and IR sensors, as well as a low-light level (LLL) channel, with which SAFRAN has also combined a thermal imaging channel. The company quoted JIMC's day/thermal detection ranges at over 7,000m (human) and 10-12,000m (combat vehicle). It is a cooled product, so it needs *"not more than three minutes to be cooled down,"* SAFRAN stated. The MWIR cooled thermal channel features: wide field of view (WFOV) of 13.5°; narrow (NFOV) 4.5°; sensor resolution is VGA 640x480; the LLL channel offers a 6.2° WFOV and an NFOV of 4.5°.

Additionally, there is a smart power concept that allows for much more autonomy, with SAFRAN quoting an endurance of over four hours. The battery status can be verified on the device's display. JIMC is an option for close air support operations, for which purpose it is fitted with an eyesafe laser rangefinder that can be operated over a distance of more than 12,000 metres. "With the laser pointer, we can pinpoint a target that we want to engage. And you can connect Jim Compact to laser designators," a SAFRAN representative told **SD** prior to Enforce Tac. With these enhancements, the binocular offers very good accuracy. Other features include DMC, inclinometers and embedded GPS. Interfaces include: video output (LAN streaming, PAL analogue); remote control (RS 422, Ethernet, USB); and Bluetooth/WiFi (optional). Questioned about the main reasons for developing this lightweight, long-range multifunction binocular, SAFRAN suggested that *"technology evolved over the past several years [and] we are in regular contact with our customers that provide us with feedback"* about the systems in operational use. (str)



SAFRAN'S JIM Compact binocular weighs less than 2,000 grams, including batteries.
(Stefan Nitschke)

Securiton Responds to Multi-Spectrum Drone Threat



booth#: 12-695

An intuitive, mobile alarm system, SecuriDrone Companion is designed to detect, track, classify and disrupt drones at ranges of up to 2,000 metres. (Stefan Nitschke)

Commercial and recreational use of drones represent an unintentional risk to public safety. Their deliberate use in a large number of incidents worldwide has provided evidence they can inflict harm that has to date remained largely unmitigated, due to the absence of effective drone detection technology. Small drones, especially those using autonomous navigation, were found to be potentially stealthy, accurate and even deadly weapons. Moreover, the incidence of use is rapidly increasing.

Addressing this dilemma, **Securiton GmbH Alarm- und Sicherheitssysteme**, headquartered in Achern, developed the SecuriDrone Companion, the smallest portable drone detection device currently on the market. Securiton describes it as a purpose-designed 'all-in-one' solution, to detect and discriminate 'low-slow-small' target sets that are difficult to detect. The solution presented in Nuremberg fills a market niche, with the mobile system designed to detect, identify, track and disrupt remote-controlled drones over large distances. If a drone threat is recognised, the operator receives the alarm on a smartphone or via Smartwatch; object visualisation is achieved via an app. Key to system success is its capability to continuously search for control and video signals, so that a drone can be detected very early during its launch phase. Thanks to a unique tracking function, a person controlling a drone can be detected before the aircraft takes off. Securiton claims a detection range of up to 2,000 metres. The company also uses artificial intelligence (AI) that supports the entire process of object localisation, identification and tracking. The detection system is helping commercial facilities, proprietors, governments and large-scale venues actively monitor and secure their premises from drone threats – and attendant liabilities. (str)

Schmidt & Bender Premieres Lightweight Optic



The 6-36x56 PM II is the lightest optic in its class currently available. (André Forkert)

booth#: 12-467

Schmidt & Bender is presenting the 6-36x56 PM II for the first time. Completely redesigned, the weight has been reduced considerably – at only 940g, it is the lightest optic in its class on the market, according to the manufacturer. It is available with 39.5 MRAD, 35 MRAD, or 27 MRAD. The reticle is in the first level, offered are P5FL and GR2ID reticles. In addition, the illumination controller has been integrated into the parallax.

The 5-20x50 II has also been modified, with illumination control similarly integrated into the parallax. (apf)

New .300 BLK Ammunition from MEN

Ammunition manufacturer **MEN Metallwerk Elisenhütte GmbH** is showing several new products in .300 BLK calibre at Enforce Tac.

For the first time, the .300 AAC BLK QD is on display, with a copper bullet now weighing 7.1g – compared with the previous weight of 8g in a total 110g cartridge weight. It is still unclear whether MEN will offer both bullet weights in future, or only one – in which case, the lighter bullet is more likely. Also new is the .300 AAC BLK with a subsonic soft (steel, tin and lead) core and a 13g bullet. The Solid Training round was developed for training, with a brass bullet weighing 8g and a 123g total cartridge weight. All cartridges are in the final stages of development, with initial deliveries to customers for testing purposes. (apf)



booth#: 12-371

MEN's new .300 AAC BLK rounds are in final development. (André Forkert)

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