



SECURITY

# *Border security* & **CONTROL**

# The CAPABILITIES



## AERIAL AND MARITIME SURVEILLANCE OF POPULATION MOVEMENTS

This capability covers equipment and systems designed to detect and track the movement of people, whether by land, air or sea. It enables the early identification of movements in groups, on foot or aboard vessels, including across wide, remote or hard-to-access areas. It relies on the deployment of aerial and maritime surveillance sensors such as long-endurance UASs, satellites, coastal radar, aerostats and ISR sensors. These solutions enable early situational awareness, helping to prevent human tragedies and contributing to the effective organisation of rescue, reception or border control operations.



## GROUND DETECTION OF BORDER CROSSINGS

This capability covers equipment and systems designed to detect and locate unlawful crossings along borders without the need for large-scale personnel deployment. It enables discreet and continuous monitoring of sensitive or hard-to-access areas. It relies on ground-based and maritime sensors such as seismic and acoustic sensors, IR devices, ground-based radars and connected buoys. These solutions provide early and reliable detection, helping to guide individuals to reception or control points, while optimising the use of resources by security and border guard forces.



## ENHANCED VIDEO SURVEILLANCE

This capability covers equipment and systems designed to reinforce surveillance and situation confirmation along borders. It contributes to the rapid assessment of risk situations by facilitating the identification of distress scenarios, the presence of vulnerable groups or unlawful migration flows. It relies on the deployment of advanced video surveillance systems integrating thermal cameras, PTZ cameras, night-vision devices and AI-based behavioural video analytics solutions. These systems help reduce unnecessary interventions, optimise the use of human resources and improve the responsiveness of forces responsible for border security.



## DATA COLLECTION AND ANALYSIS

This capability covers equipment and systems designed to centralise, process and exploit the information needed to anticipate and manage migration flows. It provides specialised services with decision-support tools that take into account multiple factors such as weather conditions, seasonality, crises or conflicts. It relies on mass data collection and processing platforms integrating machine learning technologies, multi-sensor data fusion, geographic information systems (GIS) and advanced analytical tools. These solutions support the targeted and efficient mobilisation of resources and the optimisation of control and reception capacities, while strengthening efforts to counter organised networks.



## COMMUNICATIONS

This capability covers equipment and systems designed for the coordination and command of border control and surveillance operations. It provides commander and field operators with appropriate communication means for disseminating orders, coordinating actions and reporting information in real time. It relies on redundant, autonomous and mobile communication solutions that guarantee continuous communications regardless of changes in the operational situation or the availability of telecommunications networks. These systems contribute to the responsiveness, coherent action and effectiveness of forces involved in border security.









## COUNTER UNMANNED AERIAL SYSTEMS

This capability brings together the equipment and systems required to detect, identify, track and neutralize drones that may threaten border security. It relies on the integration of complementary sensors such as radars, radio-frequency detectors, electro-optical systems and data fusion solutions, combined with appropriate countermeasure capabilities. These systems help protect sensitive areas, safeguard personnel and critical infrastructure, and strengthen control of the low-altitude airspace along border regions.

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**MEMBERSHIP**  
*directory*

# AEROMAPPER

*Aeromapper is a French company of Thales group, dedicated to development and production of Mini UAS solutions. We design and manufacture complete Unmanned Aerial Systems (UAS), from the airframe to the onboard systems. One of our key strengths is our expertise in avionics, which we develop entirely in-house to ensure performance, reliability and optimal integration.*



## NOCTUA 200



### Ultra-Portable Mini UAS for the Dismounted Soldier

The Noctua 200 is a compact, lightweight ISR drone designed for dismounted soldiers. Equipped with modular sensors, including daytime, thermal and specialized cameras, it meets the requirements for surveillance, reconnaissance and mapping missions. Carried in a single rucksack along with its control station and tablet, it can be deployed in a matter of minutes. Launched by one hand and fitted with a precision landing beacon, it ensures a reliable return, in complete discretion.



## NOCTUA 300



### Mini UAS for stealthiest missions

The Noctua 300 is an ISR drone designed for the stealthiest missions. Equipped with modular sensors, including daytime, thermal and specialized cameras, it meets the requirements for surveillance, reconnaissance and tactical mapping. Carried in a single rugged case with its control station, it can be deployed quickly, even in difficult terrain. Hand-launched and equipped with a precise landing beacon, it ensures a reliable return. Discreet and silent, it operates with complete discretion, even in the immediate proximity of the area of interest.



## GRIZZLY 400



### Rugged Mini UAS designed for harsh environments

The Grizzly 400 is a rugged ISR drone designed for harsh environments. Equipped with a modular payload bay, it can carry at the same time different sensors such as day/night optical (EO/IR) sensors, SIGINT systems and mapping sensors, and airdrop capability. It meets the requirements for surveillance, reconnaissance and tactical mapping. Deployed in under 15 minutes, it is launched using a lightweight catapult. It lands with precision thanks to a landing beacon, facilitating its recovery even in complex environments.



MEUNIER Eric | Drones Systems & Loitering Munitions Product Line  
Manager Chief of airworthiness  
+33 (0)6 58 48 30 43  
eric.meunier@thalesgroup.com  
www.aeromapper.com  
2 avenue Gay Lussac | 78990 Elancourt | France



# ALTA ARES

*In an era of high-intensity warfare and saturated electromagnetic environments, Alta Ares provides armed forces with the tools for immediate technological dominance. We develop disruptive Software & Hardware solutions, natively powered by Edge AI.*

*Our systems automate critical mission functions from detection to interception directly at the tactical edge. Specifically engineered to operate in contested environments (GNSS-denied), Alta Ares technologies ensure agile responsiveness without reliance on external data links. By eliminating operator cognitive overload, we transform raw battlefield data into tactical success for NATO-aligned forces.*

## SOFTWARE: OPERATOR DECISION-SUPPORT SOFTWARE SUITE



The Alta Ares software suite is designed to assist operators in critical decision-making directly in the field. By processing data locally, our AI ensures continuous border surveillance in remote areas where network infrastructure is non-existent or compromised.

**Gamma ISR** is an analytics module designed to operate without any internet or cloud connectivity. It transforms live video feeds into actionable information by automatically detecting and classifying incursions, including unmarked vehicles, maritime vessels, and personnel groups. Easily installed on your existing equipment, Gamma integrates with fixed tower cameras, mobile patrol units, and long-endurance drones to provide automated surveillance of sensitive border zones.

**Pixel Lock** is an autonomous system dedicated to the real-time detection, tracking, and neutralization of unauthorized drones violating sovereign airspace. Adapted for border security, it enables interceptor drones to lock onto and shadow targets autonomously. By processing the engagement loop on-platform, Pixel Lock ensures border integrity, even in the presence of electronic interference or GPS jamming.



## HARDWARE: ANTI-AIRCRAFT INTERCEPTOR DRONES



Alta Ares designs and manufactures interceptor drones developed to secure national territory against modern incursions. Our hardware solutions are designed to integrate our proprietary AI, ensuring operational resilience in the most demanding border environments.

**The Black Bird** is a lightweight turbojet-powered system (7 kg with payload) designed for the rapid neutralization of aerial threats violating national airspace. Capable of reaching 670 km/h, it can intercept drones or fast-moving illicit vectors. Operating at altitudes of up to 7,500 m with a 40 km range, it uses autonomous terminal guidance to ensure precise interception, even in areas without GPS signal.

**The X-Lock** is a 5 kg multirotor designed for surveillance and intervention. It reaches speeds of 270 km/h, allowing for immediate investigation of anomalies detected within a 15 km radius. Built for all-weather border patrol, it remains stable in winds up to 85 km/h. With 20 minutes of endurance and a 4,500 m ceiling, it features autonomous guidance to follow or neutralize unauthorized incursions.



For 35 years, ATDI has been a leader in the fields of spectrum management, spectrum monitoring, and communications electronic warfare. ATDI provides advanced software solutions dedicated to radio planning, radio engineering, spectrum management, tactical mission planning, and electronic warfare, serving customers worldwide. We continuously enhance our offerings to align with emerging technologies and industry trends, helping our customers efficiently plan, model, and manage their use of the radio spectrum.

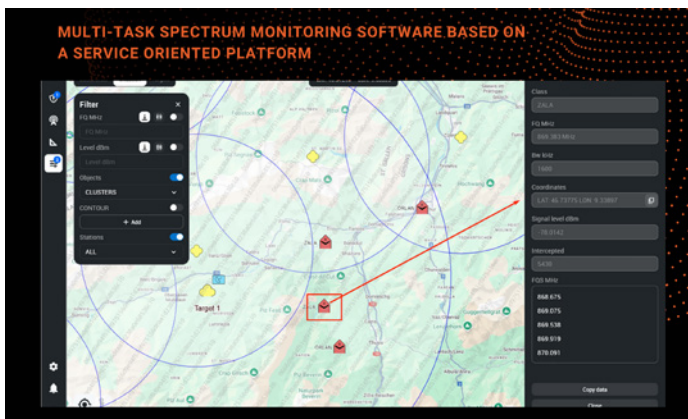
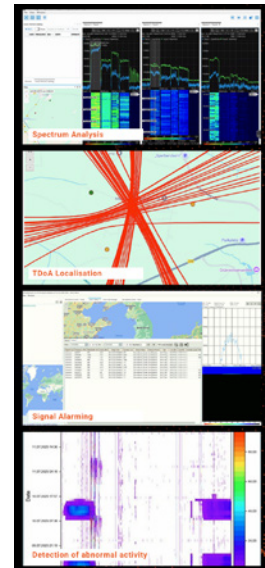
## ICS-MONITORING



ATDI ICS Monitoring, also known as ICS Monitoring SDRN Control, is ATDI's advanced real-time software solution dedicated to spectrum monitoring and electronic warfare operations. Built on a service-oriented architecture, it enables seamless system integration, high responsiveness, and multi-vendor compatibility to support mission-critical spectrum supervision.

Optimized for rapid signal detection and operational decision-making, ICS Monitoring supports heterogeneous networks and a wide range of monitoring equipment. It enables users to manage multi-source measurement data, perform real-time analysis, and coordinate responses through a unified interface.

As a core component of ATDI's integrated spectrum management ecosystem, ICS Monitoring enables real-time enforcement of spectrum usage policies, interference detection, and compliance verification with national and international radio regulations.



Monrose Barbara | Directrice Ventes  
+33 (0)6 49 48 90 87  
barbara.monrose@atdi-group.com  
www.atdi.com  
11 boulevard Malherbes | 75008 Paris | France



# BERTIN TECHNOLOGIES

*BERTIN TECHNOLOGIES is a European industrial group specializing in advanced instrumentation that designs and manufactures, in France and across Europe, measurement, observation, and detection systems and instruments for critical and scientific applications. Every day, Bertin Technologies continues to make technological advances in the fields of defense, nuclear energy, space, big science, and life sciences. Bertin Technologies develops advanced surveillance and detection solutions to secure land, maritime, and sensitive borders, thanks to products such as the CamSight V6 or the Flexnet system.*

## CAMSIGHT V6



CamSight V6 is an OEM camera designed for long-range surveillance applications, enabling aerial and maritime monitoring of human movement. Equipped with a 26-megapixel CMOS sensor, CamSight V6 performs equally well in both daylight and low-light conditions. It is an optimal solution for embedded systems, combining a compact form factor with low power consumption and comprehensive video connectivity for integration into advanced optronic systems. The CamSight V6 is suitable for high-performance surveillance platforms with limited space. It enables advanced real-time image processing and offers a modular panoramic view.



## FLEXNET



The Flexnet UGS system combine intelligence collected by seismic, acoustic, magnetic, and TI sensors to detect, identify and classify threats and targets. Remotely controlled and fully scalable, it acts as a force multiplier that can be tailored to specific protection and surveillance needs. Each individual component communicates with other devices in the system to transmit data to the Command and Control (C2) solution. Flexnet Commander displays all sensor data in a single interface, giving the operator full control over the system. The Flexnet system can be integrated into a battlefield management system. This makes Flexnet an indispensable tool for ground-based border crossing detection and data collection and analysis.



*CILAS, a company specialising in lasers and optoelectronics, develops, manufactures and markets a wide range of sub-assemblies, products and systems for defence, civil and military security, major scientific laser programmes, and scientific and industrial instrumentation.*

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## C-UAS LASER WEAPON HELMA-P



HELMA-P is a laser weapon designed for a wide range of operations : protection against direct drone attacks, whether in a centralised defence system or in self-defence contexts (protection of sensitive areas or national events).

HELMA-P was deployed in 2024 at the Paris Olympic Games.

Capabilities :

- Identifies, tracks, and neutralizes moving targets with a 100% success rate by leveraging the physical properties of light.
- Engages and neutralizes targets up to 1 km using a discreet, undetectable, and precisely controlled laser beam, without causing collateral damage.
- Quickly integrated and deployed the system onto a vehicle, with a setup taking less than two hours.

Features :

- Anti FPV

Typical targets include FPV (first person view) targeting electronic circuit boards, military payloads or guidance cameras.

- Protection of sensitive areas

Helma-P is used to protect sensitive areas (military base, airports, logistics areas, critical infrastructure, etc.) or strategic events (the Olympic Games, international summits, etc.).

- 100% success rate

The speed and straight path of the light ensure that it hits the exact intended point. The precision of the tracking and the laser's focus create a spot of a 2cm diameter on the target.



# DELAIR

*Delair, a French pioneer in UAV technology, has developed 5 generations of professional drones for Intelligence, Surveillance, Target Acquisition, and Reconnaissance (ISTAR) missions. Our portfolio includes fixed-wing, multirotor, ROVs, and loitering munitions, offering robust solutions. Trusted worldwide Delair combines innovation and reliability to support defense and critical missions with cutting-edge.*

## UX11 IR - TACTICAL MAPPING UAV



**UX11 IR – 1,6 kg UAV (Payload included) | +80 min Endurance | 10 km Communication range**

The UX11 IR is a fixed-wing drone designed for discreet observation, local surveillance and rapid reconnaissance missions. Equipped with day/night and infrared sensors, it detects movements, tracks individuals and monitors sensitive areas, including at night. Easy to operate and quickly deployable, it is ideal for route surveillance, perimeter control and security support. Its high endurance and wide coverage suit missions requiring discretion, mobility and continuous observation.



## DT26 – MEDIUM-ENDURANCE TACTICAL UAV FOR ISR MISSIONS



**DT26 – 16 kg UAV (Payload included) | +170 min Endurance | 50 km Communication range**

The DT26 is a versatile tactical drone designed for surveillance, reconnaissance and operational support missions. Compact and easy to transport, it can be rapidly deployed from constrained areas to provide immediate situational awareness. Its modular architecture allows integration of various sensors according to mission needs. Reliable and easy to operate, the DT26 is an efficient solution requiring responsiveness, precision and mobility.



## DT46 – LONG-ENDURANCE TACTICAL EVTOL UAV FOR ISR/ISTAR MISSIONS



**DT46 – 25 kg UAV | + 6h Endurance | 100 km communication range | 5 kg Payload**

The DT46 is a convertible UAV with a modular VTOL design for demanding multi-mission operations. It offers +6 hours endurance in fixed-wing mode or +3 hours in VTOL mode, with a range up to 100 km and dual payload capacity of 5 kg. It supports advanced sensors including long-range gimbals, IMINT, LiDAR and RGB payloads. Used by the French Army, French Air and Space Force, and Latvian Armed Forces, the DT46 is suited for surveillance, reconnaissance, artillery coordination, border protection and disaster response. It combines endurance, mobility and sensor versatility for field operations.



## DT61 – EXTRA LONG-ENDURANCE TACTICAL UAV FOR ADVANCED ISR/ISTAR MISSIONS



**DT61 – 100 kg MTOW | + 10h endurance | +100 km Communication range | 15 kg payload**

The DT61 is a medium UAV designed for ultra-long-range observation and advanced ISR/ISTAR missions, providing persistent wide-area coverage. It can carry multiple sensors including gimbals, IMINT, SIGINT, and SAR/GMTI radar systems. Its fixed-wing VTOL architecture enables runway-independent operations from remote or constrained locations, while its modular design ensures mission flexibility. Deployable by only two operators in less than 30 minutes and transportable in a light utility vehicle such as a pickup truck, the DT61 combines endurance, mobility, and payload versatility for demanding military operations.

## DX08 - MULTIROTOR PLATFORM FOR ISR MISSION



**DX08 – 3,2 kg UAV | up to 30 min endurance | up to 2 km Communication range | up to 1,5 kg Payload**

The DX08 is a versatile quadcopter designed for surveillance, observation, and rapid situational awareness missions. Equipped with day and night cameras, it provides continuous monitoring, including in complete darkness, while delivering fast and accurate intelligence and reducing exposure of ground teams. Its endurance enables persistent observation, confirmation of reported information, and real-time monitoring of evolving situations. Its modular design allows rapid payload integration to adapt to tactical needs. Robust and reliable, it operates effectively in demanding environments with unified control through the Delair Drako Universal Ground Station.

## DT46 LIDAR – VTOL DRONE FOR MAPPING AND TACTICAL PROJECTION



**DT46 LiDAR – 25 kg | 6+ hours endurance | 100 km communication range | Centimeter-level accuracy**

The DT46 LiDAR is a long-range drone solution designed for high-precision mapping and 3D terrain modeling. Equipped with a LiDAR sensor and an RGB camera, it rapidly collects reliable data to support mission planning and operational area analysis. Its VTOL architecture enables runway-free deployment from confined spaces. Mobile and easy to transport, it can quickly cover large areas. Robust and secure, it is an ideal tool for topographic surveys and ground reconnaissance missions.

## SEASAM HULLSCAN – INTELLIGENT UNDERWATER DRONE FOR INSPECTION, SURVEILLANCE, AND RECONNAISSANCE



**SEASAM Navigator – 3.8 kg | up to 8 hours endurance | 1 knot**

The Seasam Navigator is specifically designed for underwater inspection missions requiring precision and data traceability. It ensures the collection of high-precision georeferenced data, enabling reliable and actionable mapping. It allows for the rapid identification of anomalies, monitoring of sensitive infrastructure conditions, and delivery of clear information to decision-makers and technical teams. Mobile, quick to deploy, and high-performing, it is a solution well suited for underwater operations requiring responsiveness, accuracy, and continuity.



# EVIDEN

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*Eviden is the Atos Group brand focused on cybersecurity products, mission-critical systems and vision AI. A trusted partner to public and private sector organizations, Eviden deploys advanced analytics capabilities and helps ensure the robustness, continuity and resilience of its customers' operations. Leveraging more than 2,200 experts and 720 patents, Eviden helps protect people, data and critical infrastructures worldwide, at the convergence of intelligence, sovereignty and trust.*

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## AVANTIX, SIGINT SOLUTIONS FOR BORDER SECURITY

Eviden's (Avantix) SIGINT (signals intelligence) solutions enable the monitoring of movements in terrestrial, maritime, and aerial environments, including in large, isolated, or hard-to-reach areas. They rely on compact sensors that can be deployed on multiple platforms (drones, aircraft, autonomous ships, fixed sensors), capable of detecting, tracking, and analyzing electromagnetic emissions in real time.

These capabilities, combined with data from other sources such as coastal radars or satellites, provide anticipatory situational awareness, facilitating the early identification of movements. The collected information is integrated into command and control systems, allowing coordinated and real-time monitoring.

Thus, these solutions help to improve the anticipation and coordination of operations, notably for rescue, reception, and border control, relying on modular and interoperable multi-sensor ISR architectures.

## MOBILE SURVEILLANCE UNITS FOR COMBATING THREATS

Faced with the need for security and defence forces to effectively monitor large and sensitive areas in order to combat illegal border crossings and trafficking, Eviden offers the Mobile Monitoring Unit (MMU), an integrated, agile and autonomous mobile surveillance solution.

Eviden MMUs, powered by the Eviden VIGIA software, combine high precision radars, optronic sensors, secure communications and fleet management systems to ensure real-time detection, identification and tracking of threats, even in complex environments. Rapidly deployable and interoperable with fixed command and control centres, they enable seamless operational coordination through continuous information sharing. Radar optronic fusion and advanced data processing provide a reliable, contextualised operational picture, supporting informed decision making.

With more than 20 years of field experience, Eviden delivers decisive added value in flexibility, responsiveness and technological expertise, serving enhanced and sustainable territorial surveillance.



*Exail is a leading high-tech industrial group specializing in cutting-edge robotics and navigation technologies. Through its unique naval and land defense offer, ranging from navigation and stand-off mine countermeasure systems to autonomous vehicles, Exail delivers unrivaled performance, reliability and safety to its defense clients operating in severe environments. Employing a workforce of 2200+ people, the company benefits from a global footprint and equips over 70 navies and armies worldwide.*



## DRIX - SURFACE DRONE FOR MARITIME SURVEILLANCE



The DriX Series represents a new generation of autonomous surface vessels (USVs) designed for maritime surveillance, military hydrography, environmental reconnaissance, and support for underwater operations.

Key advantages include excellent seakeeping—even in rough seas—up to 30 days of endurance (O-16 model), and a low visual, radar, and acoustic signature. Its open architecture enables the seamless integration of various sensors (sonars, radars, E/O cameras, lidar..), as well as underwater vehicles (such as ROVs) and unmanned aerial vehicles (UAVs).

Deployable and operable from land or ships (H-8 and H-9 versions), DriX operates day and night, even in GNSS-denied environments. It can also act as a relay or support asset for underwater drones, including within coordinated multi-drone operations.



Pierre-Louis Roudaut | Sales Director - France  
+33 (0)6 38 27 11 90  
pierre-louis.roudaut@exail.com  
www.exail.com  
34 rue de la Croix de Fer | 78100 Saint Germain en Laye | France



# EXAVISION

## SEE SOONER—DECIDE BETTER

*A French SME and subsidiary of EQUANS, our company has over 35 years of expertise in designing and manufacturing advanced optronic solutions. We develop innovative optronic and software systems for land, coastal and maritime surveillance, delivering high-performance detection, recognition and identification capabilities to support reliable decisions, even in demanding environments. Combining French engineering and EO/IR technologies, we provide trusted visual intelligence for defence and security.*



## A COMPLETE SOLUTION FOR 24/7 SURVEILLANCE & TARGET IDENTIFICATION



Our multi-sensor EO/IR systems provide continuous medium- and long-range surveillance, delivering high-performance detection, recognition, and identification capabilities across day, night, and degraded visibility conditions.

Designed for demanding defence and security missions, our solutions combine advanced optronics, intelligent video processing, and embedded analytics to enhance situational awareness and support rapid operational decision-making.

Key capabilities include:

- Accurate target identification
- Automatic object tracking (auto-tracking)
- Advanced video enhancement
- Advanced analytics capabilities incorporating artificial intelligence

Powered by our embedded technologies, Exacore and DeepSight AI, our solutions deliver advanced command-and-control capabilities, enabling operators to make faster, more reliable, and better-informed decisions in mission-critical environments.

**From continuous surveillance to actionable intelligence, our systems provide the trusted visual layer required for modern defence and security operations.**

## A DIFFERENTIATED APPROACH BUILT ON 3 STRATEGIC PILLARS

### • Optronics expertise

Designed and manufactured in France, our state-of-the-art optronic systems deliver high-performance threat confirmation, identification, and tracking capabilities. Positioned at the heart of the operational decision-making chain, they provide operators with trusted visual intelligence in demanding mission environments.

### • Ease of use

Our solutions are designed for rapid deployment and intuitive operation, enabling users to quickly understand the tactical situation, reduce operator workload, and accelerate decision-making under operational pressure.

### • Services

We support our customers throughout the full system lifecycle, from system design and integration to training, maintenance, upgrades, and technical assistance. This end-to-end service approach ensures long-term operational availability, mission readiness, and sustained performance.

Combining advanced optronics, operational simplicity, and lifecycle support, our approach delivers reliable capability where and when it matters most.



# EXOSENS

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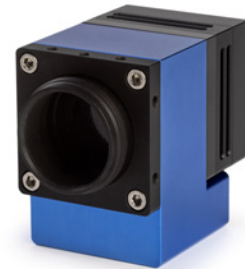
*Exosens is a European leader in high-end electro-optical technologies, delivering advanced imaging solutions for critical applications. Combining expertise in amplification, detection, and imaging, Exosens provides high-sensitivity, high-speed cameras enabling detection of extremely low signals. For counter-UAS operations, its solutions ensure long-range detection, accurate tracking, and rapid visual confirmation of drone threats in complex environments.*

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## ILUMOS RED 5G



The **iLumos RED 5G** integrates the Exosens 5G Image Intensifier Tube to deliver high-performance night imaging for border security, supporting reliable detection and surveillance across low-light, high-contrast environments.



## NOCTURN SERIES



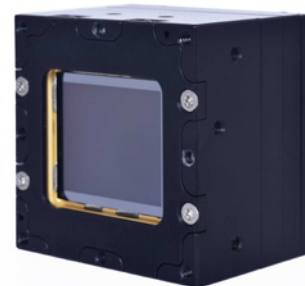
The **Nocturn series** are low-light camera cores delivering HD imaging for border security and mobile surveillance, enhancing driver vision and situational awareness from daylight to starlight.



## CRIOUS XP SERIES



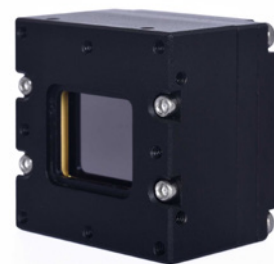
The **Crius XP series** thermal cores deliver high-performance thermal imaging, enhancing driver vision and situational awareness for patrol and armoured vehicles used in border security.



## SMARTIR SERIES



The **SmartIR series** is an ultra-sensitive, SWaP-optimized thermal core range for compact thermal weapon sights, enabling rapid target acquisition and reliable identification in border security operations.



# IMPACT

*Impact is a 100% French software company specializing in the defense and security sectors. Impact's solutions optimize the potential of various resources used during an operation, such as telecommunications equipment, sensors, databases, and more.*

*Based on geographic information systems (GIS), these solutions facilitate critical decision-making by integrating data from multiple sources to provide a shared, real-time view of the tactical situation.*

## DELTA SUITE



The DELTA SUITE includes the core modules that operators need. Its Windows and Android versions are designed for operators in command and control centers, those who are on board land or air vehicles, and dismounted ones.

### Basic Features on Windows and Android

- Mapping with a wide range of geographic data formats (import of vector or raster files and connection to map servers), as well as spatial analysis capabilities (slope profile calculation, line-of-sight calculation, geotagging, etc.);
- Location and navigation module;
- Tactical situation tracking module (tracking of friendly forces, wide range of compatible military and civilian communication equipment and sensors);
- Full Motion Video module;
- Instant messaging module.

### Specific Activities

Additional modules such as DS MAR-OPS, DS ISR, DS DRONES, or DS AIRBORNE can be added to meet more specific operational needs such as maritime operations, intelligence, UxVs supervision and their payloads control, or paratrooper missions.

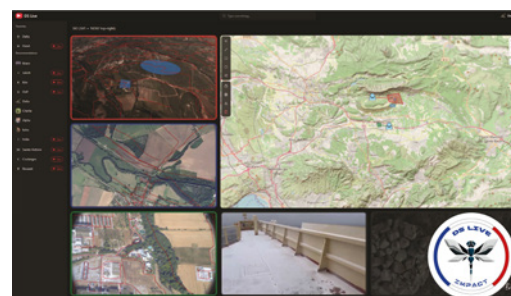
A software development kit, DS ENGINE, allows developers to add new features to DELTA SUITE.



## DS LIVE



DS LIVE is a cross-platform application accessible via a web client. It enables the collection, processing, streaming, and use of video feeds from various sources (including on-board and off-board cameras, infrared sensors, optronic domes, etc.), with or without metadata.



GÉRARD Jean-Philippe | Responsable Produits et Relation Client  
 +33 (0)2 38 72 45 90  
 relation.client@sas-impact.fr  
 https://sas-impact.com  
 1 rue Sainte-Anne | 45000 Orléans | FRANCE



*Kontron Modular Computers develops rugged embedded computing boards, platforms and mission systems for critical defense, aerospace and transportation applications. With more than 40 years of European technological expertise, Kontron supports system integrators with secure, modular architectures designed for scalable mission performance and long-term operational continuity. Designed, manufactured and maintained in Europe, Kontron solutions combine cybersecurity foundations, open architectures and lifecycle support services to ensure mission readiness over decades.*

## MULTI-SENSOR FUSION & EDGE COMPUTING



Our platforms enable real-time processing of data from ISR sensors, video surveillance systems, radars, drones and field equipment. Our high-performance embedded computing solutions support secure data fusion, AI-based analytics and decision support close to the field, with low latency and high availability.

Our Expertise

- High-performance computing platforms for ISR processing and embedded AI
- Multi-sensor fusion and real-time data processing
- Security-by-design architectures
- Open and interoperable architectures
- Secure communications and edge computing
- Long-term availability and obsolescence management
- Designed, manufactured and maintained in Europe



## CYBERSECURITY & DIGITAL SOVEREIGNTY



We integrate cybersecurity from the earliest design stages of our platforms to ensure system integrity, protection of sensitive data and secure control of connected environments. Designed in Europe, our open architectures address growing requirements for digital sovereignty and resilience of critical infrastructures.



## LONG-TERM AVAILABILITY & OPERATIONAL CONTINUITY



We support integrators and operators with maintenance, support and obsolescence management services designed to ensure the long-term availability of critical systems. Our solutions help maintain operational continuity for infrastructures deployed in remote or highly constrained environments.



# MBDA

*MBDA is a unique multi-national European group and a world-leader in the field of complex weapon systems.*

*Created in the spirit of international co-operation, MBDA brings together state-of-the-art expertise in decisive military capabilities.*

*By designing, manufacturing and delivering innovative defence solutions to European nations and their allies around the world, MBDA plays a major role in supporting their strategic independence, protecting their national security and preserving their land, maritime, air and space sovereignty.*

## SKY WARDEN



With SKY WARDEN, MBDA offers an innovative and comprehensive solution to address the challenges posed by new aerial threats such as drones. This one-of-a-kind anti-drone system combines cutting-edge technologies, unprecedented flexibility, and the ability to continuously evolve. With SKY WARDEN, MBDA provides robust, multi-layered protection tailored to the specific needs of both civilian environments in peacetime and military environments in wartime.

Thanks to its modularity and the use of various types of effectors, SKY WARDEN offers solutions perfectly adapted to the threat and operational context, ensuring total control over effects, particularly regarding the management of potential collateral effect. The system can be used in configurations tailored to the protection of sensitive sites—such as port and airport infrastructure, critical infrastructure like power plants—border protection, or the protection of international events in dense urban environments. The system's effectiveness is also measured by its minimal impact on site operations.

Thanks to the integration of numerous sensors and its AI-based command and control system, SKY WARDEN also provides extremely reliable detection and identification capabilities, enabling analysis and response in all situations, particularly in urban environments where airspace is complex. The system thus ensures optimal protection against a wide variety of drones, ranging from small remote-controlled models to larger aircraft, within a 7-kilometer radius. Its jamming system, combined with drone-interceptor technologies such as the Hit-to-Kill drone developed by MBDA, enables the system to counter drones that may be operated for intelligence gathering or as part of subversive operations ranging from terrorism to acts of sabotage. Finally, the system offers rapid on-site integration and deployment capabilities, particularly due to its small footprint. SKY WARDEN was designed to minimize the cognitive load on operators, allowing it to be operated by non-specialized personnel.

In October 2025, SKY WARDEN demonstrated its full effectiveness during an exercise organized by the European Border and Coast Guard Agency (Frontex) to evaluate, under real-world conditions, solutions for countering the use of drones for illegal purposes at the European Union's borders. The SKY WARDEN system was named "the most effective system for protecting EU borders" (Frontex C-UAS Award 2025).

MBDA thus offers its customers a mature SKY WARDEN system, capable of being deployed in both peacetime and wartime, with a combat-ready solution.

In France, the revision of the legal framework related to the use of anti-drone measures on national territory paves the way for enhanced protection of "Critical Infrastructure Operators" against drones, for which the SKY WARDEN system is a solution fully compatible with the French SGDSN requirements.

This civil application is also available for SEA WARDEN, the naval version of the system.



# MUSTHANE

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*Musthane is a French company specialized in the design and manufacturing of flexible composites made from rubber-coated reinforced textiles. Our solutions enhance the survivability and mobility of operations and vehicles in marine, land, and air environments.*

*We control the entire supply chain, from raw material formulation and manufacturing to final product delivery, ensuring process control, traceability, quality, and reliable lead times.*

*In the defense sector, our expertise is structured around two complementary pillars:*

*Design to Flexibility® - Solutions based on flexible and resilient structures: flexible tanks, inflatable jacks, pneumatic pipe plugs, lifting bags.*

*Design to Mobility® - Equipment designed for rapid deployment operations: helicopter landing mats, forward area refueling systems, temporary access roads.*

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## MARITIME SECURITY BARRIER



Mustmove® Floating Security Barriers (MSB) provide an innovative solution to secure and protect sensitive areas such as ports, maritime infrastructures, or restricted zones by preventing and discouraging intrusions.

These barriers are fully customizable and designed as made-to-measure solutions to adapt to the specific constraints of each site, including area configuration, required security level, and environmental conditions.

A wide range of options and complementary equipment can be integrated, including intrusion alarm systems, navigation or warning beacons, anti-swimmer or anti-drone nets, anchor plates, access gates, colored floats, and specific connection or assembly systems. This modularity enables the design of a maritime security solution perfectly adapted to the customer's operational needs.



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**Musthane**

Reza Rosier | Directeur Général  
+33 (0)3 28 37 00 40  
Musthane@musthane.com  
www.musthane.com  
53 rue de la République | 59780 Willems | France



# RAYXAGON

*RayXagon develops and manufactures innovative optronic devices in France for security and defense professionals. We design night vision, thermal imaging, and augmented reality systems through our in-house engineering department and close collaboration with elite units. This field-driven approach enables us to deliver robust, reliable, and intuitive equipment tailored to demanding operational environments. RayXagon products are designed and assembled in France, with a strong commitment to quality and technological sovereignty.*



## UNVB MK.II



A direct evolution of the original UNVB, the binocular that established RayXagon's reputation, UNVB Mk.II builds on extensive field feedback and constraints observed in operational environments.

Designed to meet the requirements of professional users, UNVB Mk.II stands out with its robust architecture and high reliability in degraded environments. It features enhanced electronics, delivering a high level of protection (overvoltage, overcurrent, reverse polarity) and ensuring stable operation with various types of batteries commonly used in operational configurations.

The chassis is built around a durable design, incorporating monobloc pods and stainless steel internal reinforcements, providing excellent resistance to mechanical stress.

Its power system also supports an external power source, interoperable with current standards, significantly extending runtime (up to four times longer) to meet the demands of extended missions.

The interpupillary distance adjustment has been fully redesigned to ensure simple and intuitive operation, with or without gloves.

The infrared illuminator features an optimized beam with reduced signature in the visible spectrum.

The binocular is finished with a Cerakote NiR coating and can be customized in the desired color: Flat Dark Earth, Ranger Green, or black.

Its design adopts a more distinctive signature, in line with RayXagon's identity.

Like all our systems, UNVB Mk.II is designed and manufactured in France, ensuring full industrial control.

UNVB Mk.II is available for professionals and government agencies, with different performance levels to best meet operational requirements in the field.



# TRAAK

## **TRAAK - Where no one else can**

TRAAK is a French startup specialised in the development of innovative geolocation and biometric tracking solutions for challenging environments. Conceived entirely in France, TRAAK's products range provides innovative and polyvalent solutions where conventional solutions reach their limits.

TRAAK can meet all the needs of military units and law enforcement agencies including outdoor and indoor settings and in environments where GPS is jammed or inoperable. Our expertise encompasses the full range of geolocation technologies, including jamming- and decoy-resistant capabilities, ensuring data generation and communication even in the most complex situations.

### **MMD01**



#### **Hidden passenger detection**

Portable detector for identifying passengers or animals concealed in any road vehicle. Fast, non-invasive inspection, no calibration - a single operator is sufficient.

A complete inspection can be completed in under a minute. **MMD01** is designed to integrate into existing inspection flows without slowing them down and is intended for for police, prison services, military police, customs authorities, and the protection of critical infrastructure or entrances to major events. No prior technical training is required - the device is operational within seconds.



### **CALVARY**



#### **Trigger the alert without any action**

**Cavalry** is an innovative smart fabric that detects any perforation impact (knife, bullet, sharp object). As soon as Cavalry detects an impact, it automatically generates a georeferenced alert to reduce response time and allowing operators to focus on what truly matters: managing the situation while help knows where to go.



### **PIXYS 3D**



#### **Locate everywhere even indoor**

**PIXYS 3D** combines multiple positioning technologies in a single unit. GNSS for outdoors, proprietary Where technology for indoor and underground - with automatic and continuous transition between environments. Pixys 3D allows 3D geolocation in outdoor, indoor and underground environments on a single device.



### **THESEUS**



#### **Coordinate. Locate. Track back.**

In mountain terrain or isolated environments, the **Theseus range** provides continuous personnel tracking, team coordination on the move, and automatic position reporting — with no dependency on fixed infrastructure, including in white zones, at sea, and across borders. On detection and irregular movement monitoring missions, Theseus enables route mapping, passage timestamping, and trajectory documentation to support network analysis. One shared technology platform available in three form factors to match your size, autonomy, and connectivity requirements.



Guigue Florence | Marketing & Communication  
+33 (0)6 62 80 75 89  
communication@traak.tech  
www.traak.tech  
46 rue de Paris | 78600 Maisons-Laffitte | France



# TYNDALL FX

*Tyndall FX is a French deeptech building a sovereign spatial intelligence platform for drones used in border surveillance. Our software turns drone video into a real-time 3D operational picture with embedded AI – directly on the field, no cloud, no satellites, no LiDAR. Three products: **Terramind** (real-time 3D + AI), **Geomind** (sub-5 m positioning without satellites) and **Terraswarm** (multi-drone fusion). Drone-agnostic – STANAG 4609 and MAVLink compatible – open API for integration with GIS and control systems.*



## TERRAMIND



**Terramind** turns any compatible drone's live video into a real-time, photorealistic **3D model** of the border zone, with embedded AI detection and tracking of **persons and vehicles** directly on the 3D scene — on-field, on the operator's tablet, with no cloud or external server.

Aerial video surveillance becomes an immersive and navigable common operational picture in real time: line-of-sight analysis from any observation post, anchored tactical annotations and immediate alerts when persons or groups are detected. **Sub-2% accuracy on 3D measurements: distances, surfaces and volumes.** **STANAG 4609** and **MAVLink** compatible — works with the drones already in service. Open **REST API** and georeferenced exports (3D Tiles, GeoTIFF) for integration with border-management, GIS and command systems.



## GEOMIND



**Geomind** is mission-critical localization software that delivers **sub-5 m drone positioning** without satellite signals — using only the drone's embedded sensors. Critical for long-endurance border-surveillance missions over remote, contested or jammed areas where GNSS cannot be trusted.

Geomind continuously fuses sensor data, maintaining accurate positioning when GNSS goes down — protecting the drone, the mission and the captured intelligence. Natively compatible with Terramind and Terraswarm: feeds georeferenced positions so the 3D operational picture stays anchored to real-world coordinates regardless of GNSS conditions. Geomind also feeds border-management and command systems via standard interfaces. Today on a portable ground terminal, designed for onboard UAV deployment. **No satellites, no LiDAR, no servers.**



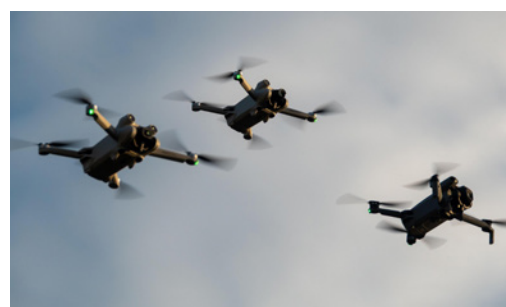
## TERRASWARM



**Terraswarm** is a **multi-drone software platform** that merges the live video feeds of several drones into a single, shared **3D operational picture** of the border zone — built collaboratively on the field, with zero server dependency.

Long border stretches and remote sectors demand wider coverage than any single drone can provide. Terraswarm lets operators run several platforms in parallel and see one continuously updated 3D scene where every drone contributes to a common situational awareness, with AI detection of persons and vehicles aggregated across the fused model.

Powered by the Terramind engine, Terraswarm extends its capabilities from single-drone operation to operational swarms. Drone-agnostic, **STANAG 4609** and **MAVLink** compatible. Open **REST API** and georeferenced exports for integration with border-management, GIS and command systems. No cloud, no external server, no data leaving the operator's perimeter.



*Quand l'excellence  
devient **VITALE***



**Groupement des industries  
françaises de défense et de sécurité  
terrestres et aéroterrestres**

39 rue Mstislav Rostropovitch  
75017 Paris  
+33 (0)1 44 14 58 20  
contact@gicat.fr

[gicat.com](http://gicat.com)