



DEFENCE AND SECURITY

Counter- **UAS**

The CAPABILITIES



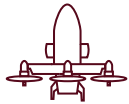
▶ COUNTER UAS COMMAND & CONTROL SYSTEM

Command-and-control systems that coordinate the counter-UAS chain from detection to engagement. Includes sensor fusion, track management, threat evaluation, effector tasking, mission computing, operator coordination and resilient information-sharing, with possible integration of navigation or orientation functions supporting tracking accuracy. Designed for fast decision cycles, interoperability, cyber resilience and reliable operation.



▶ UAS DETECTION




Detection capabilities to spot, track and classify UASs in complex environments. Includes radar, RF detection, electro-optics/IR, acoustics and multi-sensor fusion solutions. Systems support early warning, localisation and continuous tracking with low false-alarm rates. Optimised for coverage, mobility and performance against small, low-signature UASs.



▶ COUNTER UAS EFFECTOR

Effectors and related mission modules designed to neutralise or mitigate UAS threats. Includes electronic attack, kinetic and laser solutions, interceptor systems, and fuze or activation modules adapted to counter-UAS missions, integrated with C2 for safe and controlled employment.

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MEMBERSHIP
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ALTA ARES

Alta Ares: Supremacy in counter-uas operations

In an era of high-intensity warfare and proliferated aerial threats, Alta Ares provides armed forces with the tools for immediate airspace dominance. We develop disruptive Software and Hardware solutions, natively powered by Edge AI, to neutralize malicious drones and swarms in saturated electromagnetic environments.

Our systems automate the entire engagement chain from detection to kinetic interception, directly at the tactical edge. Specifically engineered to operate in contested environments (GNSS-denied), Les technologies d'Alta Ares garantissent une réactivité optimale sans dépendre de liaisons de données externes. En allégeant la charge cognitive des opérateurs, nous transformons des données aériennes complexes en atouts tactiques pour les forces alignées sur l'OTAN.

SOFTWARE: REAL-TIME INTELLIGENCE AND AUTONOMOUS ENGAGEMENT



The Alta Ares software suite is designed to provide critical decision-making capabilities directly in the field. By processing data locally, our AI ensures mission continuity in hostile environments where connectivity is non-existent or heavily jammed.

Gamma ISR: Automated Threat Classification

Gamma is a high-performance intelligence module designed to operate without any internet or cloud connectivity. It transforms live video feeds into actionable insights by automatically detecting and classifying aerial threats. Directly installable on your existing sensors, Gamma integrates with fixed cameras and mobile units to ensure permanent, automated airspace surveillance.

Pixel Lock: Autonomous AI Interception

Pixel Lock is an autonomous system specialized in the real-time detection, tracking, and interception of hostile drones. Developed for high-stakes kinetic missions, it enables interceptor drones to lock onto targets with total autonomy. By processing the engagement loop on-platform, Pixel Lock guarantees the neutralization of threats, even under intense electronic warfare.



HARDWARE: ANTI-CRAFT INTERCEPTOR DRONES



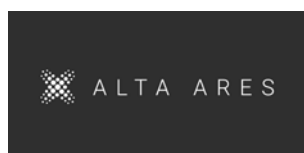
Alta Ares designs and manufactures high-speed interceptors developed to outpace and neutralize modern aerial threats. Our hardware is specifically built to integrate our proprietary AI, precision and operational resilience in the most demanding environments.

Black Bird: High-Speed Turbojet Interceptor

The Black Bird is a lightweight turbojet system (7 kg with payload) designed for the rapid neutralization of high-velocity aerial threats. Capable of reaching speeds of 670 km/h, it operates at altitudes up to 7,500 m with an operational range of 40 km. Equipped with autonomous terminal guidance, the Black Bird ensures precise interception of sophisticated drones during the final engagement phase, even in contested zones.

X-Lock: Agile Rapid-Intervention Multirotor

The X-Lock is a 5 kg high-performance multirotor designed for rapid response and precision tracking. It reaches speeds of 270 km/h with a 15 km range, allowing for immediate investigation and neutralization of intruder devices. Built for all-weather operations, it remains stable in winds up to 85 km/h and offers 20 minutes of endurance. Like the Black Bird, it features autonomous guidance to guarantee mission success.



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Since 35 years, ATDI is leader in Spectrum Management, Spectrum Monitoring and Communications Electronic Warfare ATDI provides advanced software solutions for radio planning, engineering, spectrum management, tactical mission planning and electronic warfare serving customers across the globe. We continually evolve our offerings to align with emerging technologies and industry trends, assisting customers to effectively plan, model, and manage their radio spectrum use.

PROFUSIONS DE LA SOLUTION ATDI DANS LE DÉVELOPPEMENT DE CAPACITÉS DE DÉFENSE ET DE SÉCURITÉ

UNE SOLUTION LOGICIELLE COMPLÈTE POUR LE COMMANDEMENT ET LE CONTRÔLE DES OPÉRATIONS DU SPECTRE ÉLECTROMAGNÉTIQUE

AMÉLIORER LES OPÉRATIONS EMS MULTI-DOMAINES DANS L'ESPACE DE COMBAT

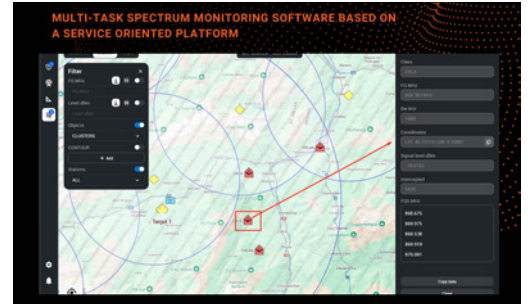
Offrir des solutions complètes de gestion EMS pour exploiter les systèmes dépendants du spectre pour l'air, la terre, la mer et l'espace. Renforcer les capacités de défense pour la connaissance de la situation, la coordination des EMS et la priorisation dans les cadres d'opérations multi-domaines.

ICS-MONITORING

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

Optimised for fast signal detection and operational decision-making, ICS Monitoring supports heterogeneous networks and a wide range of monitoring hardware. It empowers users to manage multi-source measurement data, conduct real-time analysis, and coordinate responses from a unified interface.

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



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BERTIN TECHNOLOGIES

BERTIN TECHNOLOGIES is a European industrial group in high-end instrumentation that designs and manufactures, in France and in Europe, measurement, observation and detection systems and instruments for critical or scientific applications. Every day, Bertin Technologies pursues technological advances in the fields of Defense, Nuclear, , Space, Big Science and Life Sciences. Bertin Technologies applies its expertise in optoelectronics, smart sensor networks, and multi-sensor surveillance to counter-drone operations, to detect, identify, and track aerial threats in real time. The company manufactures in particular the CamSight LS and the PeriSight Top Attack.

CAMSIGHT LS



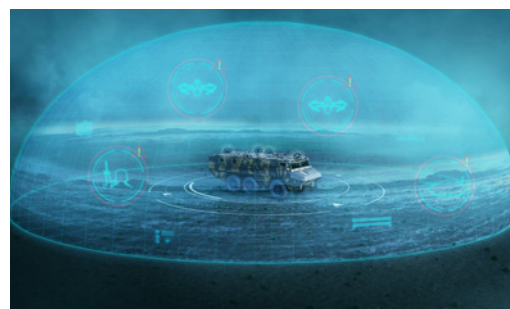
CamSight LS (Low SWaP) is an Original Equipment Manufacturer (OEM) digital core camera that features French microbolometer sensor designed for challenging applications. CamSight LS is the smallest OEM VGA camera available on the market. To comply with users' requirements, the camera has been designed to be easily integrated within complex optronic systems, . Lightweight, ultra-compact and very low-consuming, CamSight LS can be implemented in very constrained environments. Indeed, thanks to its ergonomic design and high-performance, the camera fulfills most night and day surveillance, observation and infantry missions. This product clearly meets the performance criteria defined by UAS detection.



PERISIGHT TOP ATTACK



PeriSight Top Attack is a fully passive 360° infrared optronic detection solution designed to safeguard armored vehicles from the rapidly expanding drone threat. By eliminating blind spots and securing sensitive zones, it provides crews with unmatched confidence and operational superiority in every mission. It delivers robust detection of drones including fiber-optic-guided systems, even in highly contested electronic-warfare environments. This embedded system can easily be integrated into any armored vehicle. It's equipped with an automatic moving target detection and tracking algorithm. PeriSight Top Attack complies with military standards to operate in constrained environments. It fully matches the performance criteria defined by UAS Detection.



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.

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.



DAHER

Aircraft manufacturer, industrialist, industrial service provider and logistician, Daher today has 14,500 employees for a turnover of 1.9 billion euros in 2025. With its family ownership, Daher has been focused on innovation since its creation in 1863. With locations in around seventeen countries in Europe, North America and Asia, Daher designs and develops value-added solutions for its aeronautical and industrial customers and partners, serving both civil and defense markets.



MULTI-MISSION OPERATIONAL SHELTERS FOR DRONE AND RADAR APPLICATIONS



Daher designs and integrates mobile, robust and secure operational shelters, dedicated both to ground control stations for drone management and operation and to radar applications.

Based on a 20-foot ISO steel shelter (ISO 668) with CSC certification, these systems are designed for operation in harsh environments, in compliance with STANAG 4370, with an operating temperature range from -32°C to +50°C.

The internal layout features a clear separation between an isolated operator area and a technical area, ensuring operational performance and protection of onboard equipment. Compliant with ISO 3874 handling standards, the shelters incorporate palletisation tunnels as well as a bi-position Ampliroll system (STANAG & DIN), facilitating deployment and projection on operational theatres.

Fully autonomous, they integrate power generation, electrical and air-conditioning systems, as well as safety equipment, and can be configured with a wide range of modular options to adapt to the specific requirements of drone or radar operations for armed forces.



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DIXI MICROTECHNIQUES

As a designer and manufacturer of safety devices (SAD) as well as mechanical fuzes for all types of ammunition, and a wide range of micro-engineering solutions for the defense industry, DIXI Microtechniques develops products that meet the highest standards of both specific and standardized requirements. Among its leading innovations, DIXI Microtechniques offers fuzes for Drone ammunition.

FOCAL FUZE FOR DRONE AMMUNITION

FOCAL is a mechanically actuated fuze designed for ammunition exceeding 50mm in diameter, designed for drone deployment. A cap, to be removed before firing, ensures the waterproofness and protects sensitivity of the fuze during logistic.



FOCAL DUO FUZE FOR DRONE AMMUNITION

FOCAL DUO is a mechanical impact fuze designed to equip any type of ammunition with a diameter greater than 50mm for drone use. The safety sleeve, to be removed before firing, ensures the tightness and preserves the sensitivity of the fuze during the logistics phase. FOCAL DUO is equipped with a double safety of armament in flight as well as information feedback on the state of armament of the fuze.



MEDIUM CALBER FUZE

DIXI offers a range of PD/SD mechanical fuzes for medium-caliber ammunition, covering calibers from 20 mm to 57 mm.



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 CRITICAL ENABLER FOR 24/7 COUNTER-UAS OPERATIONS



Our optronic systems are designed to seamlessly integrate into multi-sensor Counter-UAS architectures, providing the essential visual layer for threat confirmation, identification, and continuous tracking of hostile drones.

Automatically cued by third-party sensors such as radar, RF detection systems, or command-and-control platforms, our solutions deliver precise day-and-night visual assessment of aerial threats, enabling operators to rapidly qualify, monitor, and engage targets when required.

Combining high-performance EO/IR payloads with advanced capabilities such as automatic tracking and assisted classification, our systems strengthen the operational decision-making chain by delivering reliable, actionable, and mission-critical identification in complex environments.

From alert to visual confirmation, our optronics provide the decisive link between detection and response.

A DIFFERENTIATED APPROACH BUILT ON 3 STRATEGIC PILLARS

- **Optronic Expertise**

Designed and manufactured in France, our advanced 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**

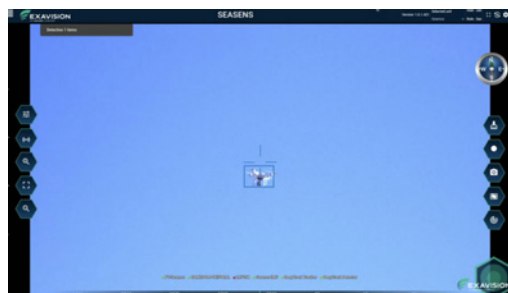
Our solutions are designed for rapid deployment and intuitive operation, enabling users to quickly understand the tactical situation, reduce operator workload, and accelerate decision-making under operational pressure.

- **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.

PURPOSE-BUILT SOLUTIONS FOR DEFENCE AND SECURITY FORCES

Providing real-time day-and-night visual intelligence, they enable defence and security forces from armed units to critical infrastructure operators to confirm, identify, and track threats in demanding environments.



EXOSENS

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.

MICROCUBE XP SERIES



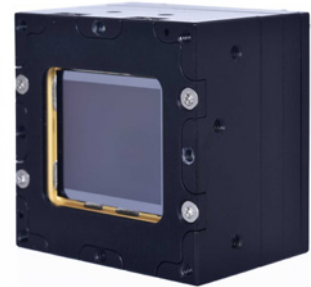
The **MicroCube XP series** is an ultra-SWaP thermal core for UAS detection, tracking, and classification, enabling reliable detection of small drones with fast startup and seamless integration.



CRIOUS XP SERIES



The **Crius XP series** supports advanced UAS detection, tracking, and classification, delivering sharp thermal imagery and extended DRI capability for detecting small, low-signature drones in complex environments.



NOXCORE HD



NoxCORE HD cameras are built for long-range surveillance and counter-UAS missions, designed for land, vehicle, and maritime systems. They combine advanced lens control and image processing for rapid radar detection confirmation and high-quality imaging in harsh conditions.



NOXCORE HD900



NoxCORE HD900 is a ready-to-integrate camera enabling rapid visual confirmation of small drone threats at several kilometers range.



FLYING EYE

Flying Eye is a French company specializing in professional drones and anti-drone solutions. We support both public and private organizations with solutions tailored to their operational challenges. Our expertise covers security, defense, energy, and critical missions. We provide supervision, training, and integration solutions. Flying Eye has established itself as a leading drone industry player in France.



OPPUS 30 AND 60



The OPPUS-30 scanner is a cooperative drone detection receiver designed to identify compliant UAVs using electronic remote identification signals (Infodrones, Remote ID). It detects all drones weighing between 250 g and 25 kg, with support for multiple international regulatory standards. From Q3 2026, the minimum detection threshold will be reduced to 100 g. Fully compliant with regulations in France, the European Union, the United States, Japan, and Singapore, the OPPUS-30 ensures reliable and standardized drone monitoring across multiple regions.

The OPPUS-60 version will also detect Drone ID signals (DJI-specific signals) to provide a comprehensive and cost-effective LAD solution for countering consumer drones, which are responsible for 90% of drone alerts currently reported across the national territory.

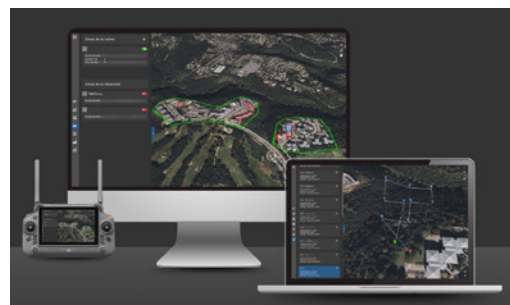


FLYINGHUB



Flying Hub is a centralized command-and-control (C2) platform that enables the remote piloting, coordination, and supervision of drone operations. It provides real-time operational awareness by integrating drones, anti-drone systems, and field teams within a 3D mapping environment.

Designed for critical missions, it enables operational automation, mission planning, and fleet tracking. Secure and deployable on-premises, it ensures data sovereignty. Flying Hub stands out as a comprehensive solution to optimize the management and safety of aerial operations.



IMPACT

Impact is a 100% French defence and security oriented software publisher. Impact's solutions allow to increase the potential of the various resources used in an operation, like telecommunication equipments, sensors, databases, etc. Relying on Geographical Information Systems (GIS), the solutions enable critical decisions to be made by creating a multi-source data fusion for a shared tactical situation in real time.

DELTA SUITE



DELTA SUITE groups together the basic modules required by military users, and thus forms the basis for versions designed for the armed forces. Its Windows or Android versions are designed to equip operators in Command and Control Centers (C2 - C4ISR), those who are embedded in wheeled, naval or airborne assets or dismounted ones.



Windows and Android basic features

- Cartography 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, intervisibility calculation, geofencing, etc.) ;
- Location and Navigation module ;
- Tactical Situation follow-up module (Blue Force Tracking, wide range of compatible military and civilian communication equipments and sensors) ;
- Full Motion Video module ;
- Chat messaging module.

Specific businesses

Complementary modules such as DS ISR, DS JFIRE or DS DRONES can be added to meet more specific business needs such as intelligence, surveillance and reconnaissance, joint fire or UxVs and their payloads control.

DELTA SUITE is now capable of integrating counter drone systems in order to maximize their efficiency.



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JOHN COCKERILL DEFENSE

John Cockerill is an international industrial group specializing in technological solutions for energy, industry, and defense. Within the Group, John Cockerill Defense develops and integrates armored vehicles and advanced weapon systems for land platforms, combining firepower, mobility, precision, and operational adaptability to meet the requirements of modern armed forces.

A PREVIOUSLY IDENTIFIED OPERATIONAL NEED THAT HAS NOW BECOME A PRIORITY



Counter-UAS : Sovereign Solutions Against Emerging Threats

Facing the rapid evolution of aerial threats, John Cockerill Defense develops Counter-UAS solutions designed to enhance the protection of armed forces and land platforms.

Relying on the expertise of Hornet and the group's defense technologies ecosystem, John Cockerill Defense designs capabilities able to detect, identify, and neutralize hostile drones in increasingly complex operational environments.

A Comprehensive Counter-UAS Approach

Through the Hornet range, John Cockerill Defense develops a global close-protection approach integrating detection, optronics, fire accuracy, and system scalability.

The Hornet Air Guard remotely operated weapon station illustrates this innovation-driven approach. Developed from the French remote weapon station ecosystem initiated under the SCORPION program, it benefits from an open architecture enabling the rapid integration of new Counter-UAS capabilities.

Detect, Identify and Neutralize

The solutions developed by John Cockerill Defense are built around three key pillars:

- Precision of remotely operated systems;
- High-performance sensors and optronics for threat identification;
- Integration of sovereign 360° detection capabilities.

Hornet is notably developing solutions capable of automatically detecting drones and cueing optronic systems to accelerate target identification and crew reaction time. This approach contributes to the development of comprehensive self-protection kits adapted to the new realities of the battlefield.

Innovating Through a Sovereign Ecosystem

To anticipate the evolution of threats, John Cockerill Defense relies on a network of French industrial partners specialized in critical technologies.

Collaborations with companies such as MC2 Technologies in radar and directional jamming technologies, and CILAS for laser-based solutions, contribute to the development of innovative neutralization capabilities tailored for future operations.

Preparing the Capabilities of Tomorrow

John Cockerill Defense engineering teams continue to explore the full spectrum of Counter-UAS technologies: kinetic effectors, jamming, advanced detection systems, and laser solutions.

Through the expertise of Hornet and the group's engineering ecosystem, John Cockerill Defense develops scalable solutions designed to support armed forces against constantly evolving threats while contributing to the strengthening of European technological sovereignty.



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 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.

COUNTER-UAS MISSION COMPUTING & SENSOR FUSION



Our high-performance embedded computing platforms support real-time processing of radar, RF, EO/IR and acoustic sensor data for Counter-UAS operations. Designed for low-latency environments, our solutions enable multi-sensor fusion, AI-based target analysis and shared situational awareness across distributed systems.

Our Expertise

- High-performance embedded computing for ISR and sensor fusion
- AI acceleration and real-time target processing
- Open and interoperable architectures
- Edge computing for mobile and distributed operations



CYBERSECURITY & DIGITAL SOVEREIGNTY



We integrate cybersecurity from the earliest design stages of our platforms to ensure system integrity, trusted data flows and secure control of connected environments. Designed and maintained in Europe, our architectures support growing requirements for digital sovereignty, resilient deployment and protection of sensitive operational data.

Our Expertise

- Security-by-design architectures
- Trusted computing and secure boot foundations
- Protected mission data flows
- Sovereign deployment and lifecycle control



LONG-TERM AVAILABILITY & OPERATIONAL CONTINUITY



We support integrators and operators with long-term maintenance, support and obsolescence management services designed to ensure operational continuity of critical Counter-UAS infrastructures. Our solutions are built for long-life programs requiring high availability, controlled evolution and sustained mission readiness.

Our Expertise

- Long-term availability commitments
- Proactive obsolescence management
- Lifecycle maintenance and support services
- Controlled configuration management



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



SKY WARDEN is a C-UAV system that faces the entire spectrum of drone threats, from micro drones to tactical drones or loitering munitions, as well as other classic air breathing threats, with both C-UAV and GBAD engagement chain.

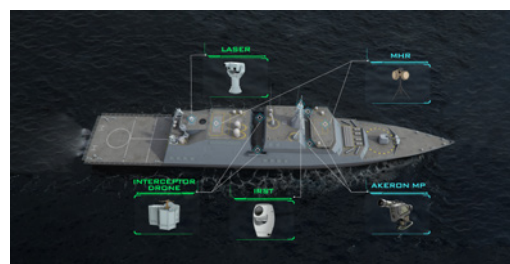
SKY WARDEN provides a multi sensor incremental approach to build a rich, clean and merged situational awareness to respond to a wide threat spectrum 24/7. Whatever the environment (urban, maritime, mountainous, desert...), SKY WARDEN is designed to protect fix sites, fix or mobile high value assets, deployed units as well as GBAD units protection.



SEA WARDEN



SEA WARDEN is the naval adaptation of the CUAS SKY WARDEN System with inclusion of anti USV (unmanned surface vehicle) capability. Like SKY WARDEN, it is a modular system, designed to integrate and control a large range of sensors and effectors, which can combat unmanned aerial (micro and mini drones) and surface threats.



MC2 TECHNOLOGIES

MC2 Technologies, a defense and security contractor, offers C-UAV and RC-IED solutions in the field of electronic warfare.

We work closely with our partners and end customers. We are able to adapt to the needs of the military because we design and manufacture our products in-house.



HADES



Founded in 2004 from a research center specializing in microelectronics, MC2 Technologies has become a key player in the high-tech security market thanks to its expertise in anti-drone systems, radio-controlled improvised explosive devices (RC-IEDs) and all the way to electronic warfare.

As a micro-technologies expert, MC2 Technologies offers a complete anti-drone warfare (C-UAV) solution. From detection to neutralization, by localization, our product range is combat proven as shown in the press through MAJES deploy on French Marine frigates (PERSEUS and UAF labels) and NEROD in French air army (UAF label).

Our experts work hand in hand with our partners, such as Thales, MBDA or the KNDS group, but also with our end customers, such as the French army. We are able to adapt to our customer's needs, as we manufacture all our products in-house, thanks to our R&D efforts. Choosing MC2 Technologies means choosing sovereignty.



MERCAT



MERCAT is a passive radio frequency (RF) drone detection system designed to provide real-time, 360° monitoring of the radio spectrum used by drones. It captures, analyzes, and identifies communications between the drone and its operator across a broad spectrum ranging from 400 MHz to 7,200 MHz, in order to detect as many existing protocols as possible. Thanks to its artificial intelligence algorithms and scalable database (protocols such as OccuSync, LightBridge, HereLink, SkyLink, etc.), it can distinguish between “friendly,” “hostile,” or “other” drones and provide reliable classification with minimal false alarms.

Designed for rapid deployment (< 5 minutes) and near-instantaneous response (< 5 seconds), MERCAT is capable of tracking drones up to several kilometers away depending on conditions (2 to > 10 km, or even up to 20 km as claimed in some public announcements). Its ~10° precision angle allows operators to be directed toward the direction of the intrusion, and its sector antennas cover the entire horizon. The device is rugged: weight 30 kg (without accessories), dimensions 80 cm diameter, IP65 protection rating, operating temperature between -10 °C and +50 °C. It connects via Ethernet or through an API for integration into an external command and control (C2) system, and operates with various power supplies (9–36 V or 110–230 V).

MERCAT's key advantages lie in its passive approach (no emissions, and therefore no easy detection), its very broad spectral coverage, its ability to operate in RF-saturated environments, and its intelligent classification system designed to minimize false alarms. It addresses the critical need to secure sensitive areas against unauthorized drones by providing operators with a real-time view of the threat, its direction of approach, and operational support to trigger counter-measures (jamming, interception) via complementary systems.

Its typical use is the protection of critical infrastructure (military bases, strategic sites, airports), event venues (stadiums, concerts), or urban facilities requiring discreet RF surveillance. MERCAT can also be mounted on vehicles for mobile missions. The target markets are defense forces, homeland security, operators of sensitive infrastructure, and specialized security service providers.



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METRAVIB DEFENCE

Metravib Defence provides defense & civil security actors with effective solutions for monitoring, detecting and locating threats. The systems developed by Metravib Defence use the sound waves generated by the firing of arms to detect & accurately identify their location in real time. Thus, Metravib Defence helps to provide improved protection for personnel, permanent installations & mobile platforms in hostile territory. Our Combat Proven solutions are in more than 45 countries and are both certified ISO 9001 and ISO 14001.



© Metravib Defence

PAAD: NEW SMALL AI-DRIVEN ACOUSTIC DRONE DETECTOR



Metravib Defence PAAD is a new drone detector using a passive acoustic sensor powered by Defence Artificial Intelligence (AI). The PAAD can be deployed either standalone or as a key complementary detection technologies that can be coupled or integrated with multi-sensor Counter-UAS (C-UAS) solutions.

The PAAD allows to detect and track (azimuth and elevation) a drone within a radius of several hundred meters (small drones and drone swarms FPV at low altitude and low speed) and enhances small infantry units and vehicle's survivability against the growing threat of Drone Warfare.



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PILAR V VEHICLE



Metravib Defence PILAR V is an acoustic sensor that detects and locates the enemy's position. PILAR V is designed for the protection of heavy and light armoured vehicles, as well as police armoured vehicles. It is available as a tetrahedral acoustic array mounted on the vehicle roof. It can also include a display indicating the shot origin and identification. It allows to improve crew & vehicle survivability and enhance situational awareness.



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PILAR GROUND VERSION



Metravib Defence PILAR GROUND VERSION is an acoustic gunshot detector designed to protect sensitive sites, military bases, checkpoints, embassies and any other areas or buildings. It can also be used to protect a particular event (visit of VIP, meeting of state leaders, etc.). PILAR Ground Version reports in real-time the GPS coordinates of the threat on the cartography.



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NUANCES TECHNOLOGIES

Expert in wireless communications control since 1991, Nuances Technologies designs and develops turnkey solutions to detect, identify, neutralize, or intercept all types of civilian drones. The systems are modular and can be used independently. The solution detects and neutralizes multiple simultaneous threats in real time. Lightweight and discreet, our equipment can be deployed as a fixed installation for permanent protection or used in mobile configurations by intervention units.

ADVANCED DETECTION AND IDENTIFICATION TECHNOLOGY



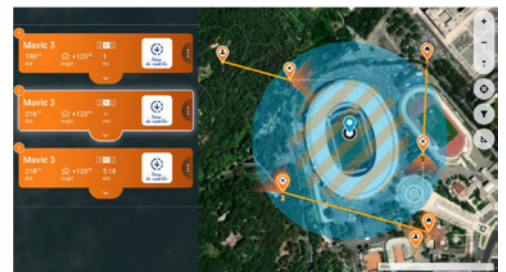
Our detection solution combines multiple sensor technologies to identify threats at long range with a customizable alert perimeter. Advanced data processing minimizes false alarms and instantly notifies operators when one or more drones are detected. The system simultaneously locates drones, pilots, and take-off points with GPS-level precision. Real-time mapping displays each drone's position, trajectory, altitude, speed, and camera orientation. Depending on the sensor type, extensive information can be extracted, including drone serial number, brand, model, communication protocol, and remote-control type. The solution automatically identifies and classifies each detected threat in lists of authorized or unauthorized drones.



NEUTRALIZATION AND INTERCEPTION CAPABILITIES



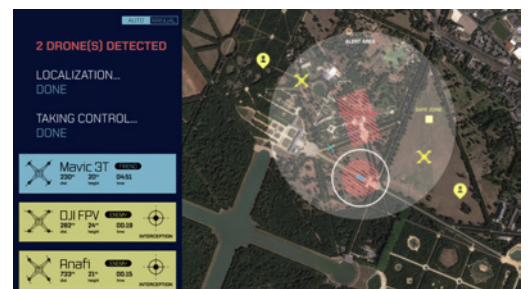
Nuances Technologies provides both reactive and programmable jamming solutions as well as advanced interception systems. Our C-UAS technology continuously scans a wide radio spectrum (100 MHz to 6 GHz) and analyzes signals in real time. When a threat is detected, it automatically triggers the most effective countermeasure based on the drone's communication protocol. Operators can manually or automatically activate the effectors to block the drone. For interception, the system can take control of one or several drones and pilot them to a safe landing area, either on command or autonomously.



CENTRALIZED CONTROL AND MONITORING



Othelo® C2 system collects data from various systems and multiple sites through the integration of heterogeneous sensors. This information is then merged into a single interface and a centralized database. The system provides supervision of all components, whether fixed or mobile. The map interface displays the real-time position of all systems, operators, and detected devices. Othelo® also enables the control of all key functions: detection, classification, visualization, neutralization, and interception.



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SBG SYSTEMS

SBG Systems designs and manufactures high-performance inertial navigation solutions for defense applications. Our compact, rugged IMUs and INS provide precise positioning, navigation and attitude data in GNSS-denied or contested environments, enhancing situational awareness and mission effectiveness across land, naval, airborne and autonomous defense platforms worldwide.



STELLAR-40 INS



SBG Systems' latest flagship for defense and mission-critical applications, Stellar-40, is a tactical-grade Inertial Navigation System engineered to perform where conventional navigation fails. Designed for land, air, and marine platforms, it integrates a tactical-grade IMU, a GNSS receiver, and advanced sensor fusion algorithms within a compact and rugged enclosure. OpenPR

Stellar-40 is built around two core defense requirements: mechanical resilience and electronic warfare resistance. A three-level vibration mitigation architecture — combining dampers at the IMU sensor level, a resonance-free enclosure, and custom external dampers — isolates the unit from harsh vehicle dynamics. Hydro International Against electronic threats, the system incorporates a high-performance GNSS receiver with active mitigation against jamming and spoofing, and relies on multi-sensor fusion and dead-reckoning capabilities when GNSS signals are degraded or unavailable — ensuring that loss of signal does not mean loss of situational awareness.



PULSE-40 IMU



Pulse-40 is a miniature 6DoF tactical-grade IMU embedding low-noise MEMS gyroscopes and accelerometers, designed to deliver optimal performance in all conditions without compromise on SWaP. Pulse-40 it achieves tactical-grade performance in a form factor suited to size-constrained platforms including UAVs, guided munitions, and embedded weapon systems.



ELLIPSE-D INS



Ellipse-D is a compact inertial navigation system with integrated GNSS, engineered for demanding defense applications. It delivers reliable position, velocity, and orientation data through advanced sensor fusion algorithms, ensuring operational continuity even in GNSS-denied or jammed environments. Its small footprint and low power consumption enable seamless integration into land, naval, and aerial platforms, including UAVs and embedded systems. Ellipse-D enhances navigation, stabilization, targeting, and situational awareness, providing armed forces with accurate and dependable data critical to mission success in contested and dynamic operational theaters.



Thales' C-UAS (Counter-Unmanned Aerial Systems) approach integrates sensors, effectors, and command & control (C2) to detect, track, classify, decide, and neutralise drone threats.

The system addresses diverse threats—from micro/mini drones (low altitude, slow) to high-speed one-way effectors (loitering munitions) and swarms (autonomous, saturating attacks).

Operational use cases span military (base protection, convoy defence) and homeland security (airports, critical infrastructure), adapting to constraints like limited radar emissions or no-neutralisation zones.

FORCESHIELD, GROUND BASED AIR DEFENCE



ForceShield is a modular system for Very Short-Range Air Defence (VSHORAD), optimised for C-UAS missions.

It combines several types of radar with various ranges, including the widely deployed GM 200 family of medium-range surveillance radars with ControlView, a GBAD Command & Control system managing detection to interception.

Depending on the threat, the system can rely on several types of weapon systems such as the LMM missile and laser guided rocket systems for precision strike. It also integrates the RapidFire, a 40 mm versatile gun system with new airburst ammunition, and Radio Frequency Directed Energy Weapons systems generating short, powerful electromagnetic waves to neutralise drones.

Thanks to its open architecture, ForceShield can also integrate partners' low cost interceptors.



SPARTA, THE COUNTER-UAV MISSION KIT FROM THALES' COMBAT DIGITAL PLATFORM



Delivering instant protection for land tactical units, it's the ultimate last-mile defence for any mission, capable of neutralising UAV threats with unmatched precision.

Fully interoperable and future-proof, Sparta seamlessly integrates with existing systems, ensuring long-term adaptability without compromise. Its multi-sensor suite detects, tracks, and classifies threats in real time, while its autonomous watch solution maintains 24/7 vigilance—no blind spots, no surprises.

When hostile drones strike, Sparta deploys rapidly in minutes automated lethal countermeasures at a low cost per kill, eliminating threats before they reach their target.



PARADE: THE COMBAT PROVEN HOMELAND SECURITY SOLUTIONS AGAINST C-UAS



PARADE delivers 360° defence against micro and mini-drones—from homeland security to high-stakes military operations—with proven low false-alarm rates and intuitive, non-specialist operation. Modular, cyber-secured, and field-proven, it integrates cutting-edge radar, RF detection, and laser interceptors into a single, scalable solution, trusted to safeguard the most visible global events.



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



**Groupement des industries
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