

DEFENCE

Special Operations Forces



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The French land defence and security
industry association

DEFENCE & SECURITY



FRENCH EXCELLENCE FOR DEFENCE & SECURITY

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Brigadier General Michel DELPIT Special Operations Commander

As it celebrates its thirtieth anniversary, the French Special Operations Command (COS) is moving into a new pivotal period in its history.

After the time of high-impact interventions in the 1990s, followed by long-term engagements in crisis zones during the 2000s, over the past decade the COS has developed around the fight against terrorism, with a broader operational vision. And this core activity still forms the basis of its operational engagements. But times are changing. The 'great game' of major powers is returning in the context of the new 'competition-contestation-confrontation' continuum. These interactions are developing in expanded fields of confrontation (space, land-air-sea, cyberspace, information, and influence), combining hybrid modes of action that are considerably more diversified than in the past. At the same time, crisis zones are becoming more complex, due to a cumulation of local factors, cross-cutting issues, confrontations between unrestrained regional powers and the strategic contestation of major powers, which can escalate to very intense situations.

The COS is determined to align with this new state of play in which strategic contestation must prevail. It will focus its efforts on the areas of influence or development of its various "competitors", who will take advantage of the slightest weakness in the control of spaces and systems. The geographical borders of the national territory and Europe will be of more major importance

than ever. In each of its areas of intervention, the COS can provide access, reveal the field of opposing contestation, facilitate support for partners, and be an asset in the strategic dialectics of escalation. At the same time, the COS will remain a key integrator in the fight against terrorism, which will not stop and will continue to threaten our interests and our national territory. Finally, the COS will continue to be an organisation with rare and agile capabilities, with the ability to swiftly intervene in any specific crisis situation.



In this context of strategic transition, the COS must adapt its capability model. Through the foresight work, some key features have emerged:

- the need for a greater **strategic projection capability**;
- the need for resilient, flexible and unifying **leadership capabilities**;
- the need for a **digital transformation** to accelerate the decision loop, process mass data and take action in immaterial areas;
- the need for **discretion**, in disputed operational spaces and environments;
- the importance of **responsiveness**, to adapt action to the right level of conflict across the competition-contestation-confrontation continuum.

This is the approach adopted by the COS in order to rise to the new challenges.

capabilities

Special Forces operate within the full spectrum of operations, namely: competition, dispute and confrontation. In an increasingly complex environment, they must adapt the scale and scope of their actions. Hence, they are rapidly becoming the backbone of a highly integrated system of forces, comprising an increasing number and variety of technical and human assets. This operational integrated system is designed to allow the planning and execution of kinetic as well as non-kinetic operations, in the three dimensions. The French Special Forces Command specifically rely on the following capacities:

	<p>MOBILITY Land Air mobility Tactical airlift Aquatic Sub-aquatic</p> <p>Usually deployed far from their rear operational and logistical bases, the French Special Forces must be able to meet the challenges of swift projections over long distances, at any times, and any environment (land, air, sea). Furthermore, despite their light footprint, the necessary autonomy of Special Forces units in the field require a heavy logistical effort, for which dedicated personnel and freight transport capacities are pivotal, along with the appropriate level of force protection. Finally, be they dedicated to transportation or fire support, the SOF mobility capacities will increasingly need to counter and defeat enemy's "anti-access/area denial" capabilities.</p>
	<p>ICTS and COMMAND</p> <p>This ICTS and Command capabilities ensure the command and support of special operations components in the fields, generally coordinating several Task Units, possibly deployed within a national or multinational operation. The Task Forces must be able to operate simultaneously on several theaters of operations, on strategic, operative, tactical as well as logistical levels. These highly sophisticated, though robust, and redundant communication tools have become pivotal to the conduct of special operations, allowing real-time transmission of orders, situational awareness and reporting, to or from the military authorities... ICTS and Command assets must be redundant, autonomous, secure and mobile, hence guaranteeing permanent connections. The equipment and programs should therefore, at all time, satisfactorily address the requirements of the several key principles, namely: continuity, uniqueness, integration, and subsidiarity.</p>
	<p>ACTION</p> <p>The French Special Forces have become an integrated system of strengths and capabilities, deploying autonomous units in the field that are likely to operate along aggressive rules of engagement. The scope of their missions ranges from seizing or neutralizing key infrastructures, rescuing hostages, rescuing and evacuating nationals abroad, capturing or neutralizing individuals of significant value. In order to address at the highest level of expertise and professionalism the challenges met in the field (notably IEDs and sniping), a particular effort is placed on individual and collective equipment. For instance, a wide array of weapons remains a determining factor in most SOF operations, along with light but highly resistant passive and active protective gear.</p>
	<p>INTELLIGENCE</p> <p>The enemy and environment situational awareness remain, more than ever, paramount to the success of any military operation. Although basic intelligence functions remain largely unchanged: search, detect, intercept, identify, analyze, monitor... (through FMV, long-range UAVs, integrated multi-sensor platforms, etc.), technical capabilities and assets are rapidly evolving, hence requiring a high degree of technological vigilance et constant adjustments. A harsher context of international and national security threat has considerably reinforced the need for discretion and stealth, along with real-time intelligence and contracted decision-making processes.</p>
	<p>MEDICAL SUPPORT</p> <p>Given the high level of risk attached to SOF operations, the French Special Operations Command is particularly eager to provide its operators with the highest level of field medical and surgical capabilities. This is ensured by the deployment of sophisticated medical and surgical assets, as well as highly skilled, and regularly trained, medical personnel.</p>
	<p>OMA / TRAINING</p> <p>Thanks to their excellence and their many commitments, the French intervention forces are able to export their tactical and technical know-how to France and abroad, through training units in the fields of intervention, security/protection, observation/research, negotiation, weapons training, assistance, training and support... Many highly qualified operators are therefore involved in the effort to share a wide range of skills and expertise acquired in the field and initial and continuing training.</p>

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membership directory





INTELLIGENCE



AEROMAPPER

Long range multi-mission UAVs.

Aeromapper is a lightweight, long range UAV manufacturer based in France.

Its range of NOCTUA UAVs extends from very light machines of 2 kg to heavier systems of 15 kg. The company benefits from one of the largest European experience in flight hours on BVLOS operations (long range, out of sight, 5-50 km from the pilot).

Our machines are entirely designed in-house (electronics / mechanics / software). 75% of the mechanical elements are made in France (including avionics micro-welding) and assembly is carried out in our premises in Massy.

Added to the range of drone systems are the avionics suites ARIES (for light drones with low security stakes) and CERBERE (for drones with higher security stakes => absence of single point of failure, DO178C, bussed triplex architecture)

The missions of our drones include:

- Mapping
- ISR (EO / IR)
- Electronic warfare

=> With easy on the field-swappable payloads.

We focus on:

- Navigability: the intrinsic reliability of the systems (and its certification aspects)
- RAAD: Anti-drone systems resilience capabilities (we aim at low detectability, making identification difficult and making the system resilient against counter-UAV non kinetic-actions)
- Ergonomy: Ease of handling, control and maintenance

The systems have been thoroughly evaluated and operated in real conditions such as maritime environment, jungle, high heat (45°+), sand, cold (-10°) and intense RF environment

Nicolas SONNET | DG

+33 (0)1 84 17 26 09

n.sonnet@aeromapper.com

www.aeromapper.com

15 rue du Buisson aux Fraises | 91300 MASSY | FR



ICTS and COMMAND



ACTION



INTELLIGENCE



AIRBUS DEFENCE AND SPACE

Airbus Defence and Space is a leader in designing, manufacturing and delivering aerospace products, services and solutions to customers and support them where they need it most:

be it on land, in the air or at sea, enabling them to achieve their defence, public safety, maritime, critical infrastructure, environmental, aero connectivity, disaster relief, security and humanitarian missions.

Reconnaissance missions with Zephyr and Pleiades Neo satellites

Zephyr is a solar electric stratospheric High Altitude Platform Station. Persistent high-resolution (18cm) images and 4K live video solutions provide a range of continuous surveillance, imagery and video capture for intelligence gathering. Running exclusively on solar power, Zephyr flies at about 65,000 ft, above the weather and other air traffic. Pléiades Neo, Airbus' most advanced optical constellation, with two identical 30 cm resolution satellites and optimum reactivity, provides very high-resolution optical imagery for geospatial applications and analytics.

Actionable Intelligence

Addressing today's need for actionable information and more efficient combination and dissemination of human (report), digital (internet), communications (signals and communications), spatial and geospatial data, we deliver our customers in the defence and security domain tailor-made solutions for ISR (Intelligence, Security and Reconnaissance) applications.

Secured Communications

We bring together the most comprehensive bandwidth offer and cyber-protected capabilities for network services and solutions, for our customers' most critical and demanding missions - ensuring time - and mission-critical communications.

Action Support

The A400M is the proven, certified and in-operations most advanced airlifter. With its combined strategic and tactical capabilities, the A400M has proven better range, speed, altitude, payload and tactical performance than previous-generation tactical airlifters, enabling the delivery of game-changing capabilities to the point of need, such as next to a natural disaster or a theatre of operations where strategic airlifters cannot operate. The C295 conducts multi-role operations worldwide under all weather conditions. It is fully certified and operates day and night in combat missions in all weather extremes.



Hélène SAVVIDIS

Country marketing Manager France, Airbus Defence and Space

+33 (0)6 18 96 07 86

helene.savvidis@airbus.com

www.airbus.com

1 boulevard Jean Moulin | 78996 ELANCOURT | FR





MOBILITY



AIRBUS HELICOPTERS

Rotorcraft tailored for special operations.

Helicopters play a key role in special operations. Rotorcraft offer unrivalled mobility and are vital to the gathering of intelligence and supporting troops deployed on the ground.

As commandos are typically deployed in small numbers with limited firepower, helicopters provide the fire support so dearly needed – as well as vital logistical and medical support. Flying above troops on the ground, helicopters can also be used in special operations for command and control duties.

With the H145M, the H225M and the NH90, Airbus Helicopters offers a comprehensive and complementary range of rotorcraft tailored for special operations. Already in service, the H145M and the H225M have proven their worth, while the NH90 is evolving to adapt to the specific needs of the Special Forces with the upcoming Standard 2. The H160M and the H175M, building on proven civil platforms, are the latest addition to this range in the medium and super medium segment. Airbus Helicopter's unmanned aerial system, the VSR700, can also be used for special operations to conduct a large array of missions: reconnaissance, ISR, cargo or support.

The most advanced armed forces across the world have created helicopter units dedicated to special operations and have chosen Airbus Helicopters platforms. In Germany, the special forces operate H145Ms. In France, the French Army has one regiment dedicated to special operations – operating the Gazelle, Puma, Cougar (recently upgraded), H225M and the Tiger. The French Air and Space Force uses the H225M with air-to-air refuelling capabilities for long range special operations.

👤 Stéphane ROUSSEAU | Head of Operational Marketing

☎ +33 (0)4 42 78 25 44

✉ stephane.rousseau@airbus.com

🌐 www.airbus.com/en

📍 Airport Marseille Provence | 13725 MARGNANE Cedex | FR



AIRBUS



ACTION



ALSETEX

Etienne Lacroix group, 100% private family equity originally founded in 1848. The company is a worldwide leading manufacturer in the field of pyrotechnics for security and defense applications.

Alsetex, subsidiaries of the family-owned group Etienne Lacroix, have been specialized in the design and manufacture of a wide range of pyrotechnic products since the 1960's, which are today employed by intervention and counterterrorism teams around the world.

Alsetex

Alsetex develops a wide range of effects, dedicated to special forces from its range of launchers (40mm, single, multiple 4 barrels) and especially around its range of hand grenades. Offensive, defensive, flash and bang, masking, barricade, burst, stun, flash, thermic pot, smoke devices, distress signals...

Innovation strategy

Alsetex allocates human and financial capacities to develop specific and dedicated products and follow a group innovation strategy.

One of the last innovation is the new generation of reversible ignition devices, without safety pin. Reversibility of these new ignitors allow arming and disarming of the product, whatever the effect.

This new generation of ignition devices increase the safety and use of hand grenades.

👤 Anthony RIMBAULT | Marketing & Sales Manager

☎ +33 (0)2 43 92 81 00

✉ alsetex@etienne-lacroix.com

🌐 www.alsetex.fr

📍 72300 PRECIGNÉ | FR



ALSETEX



MOBILITY # ICTS and COMMAND # ACTION # INTELLIGENCE # MEDICAL SUPPORT



ARQUUS

Defense Mobility Systems.

A century-long experience in designing tailor-made vehicles for land warfare.

Long-standing partner of the Special Forces, Arqus is the only French vehicle manufacturer to develop vehicles specially designed for the Special Forces: this know-how was built on the ACMAT VCOM and VLRA and the Panhard VPS, some of which are still serving today. This know-how continues vehicles such as the Areg and Sabre.

Armored patrol vehicle, the Sabre is a vehicle based on the Sherpa Light platform with specific adaptations for Special Forces missions. Stealthy and extremely mobile, the Sabre is a multi-echelon and joint combat vehicle, designed to accommodate all kinds of weapons and several communication systems (C4ISR). The Sabre has already met commercial success.

The Areg is a light vehicle designed for Special Forces. It was presented for the first time at the Arqus Days in October 2020, where it impressed with its agility and nervousness on the tracks and slopes of Satory.

In 2021, Arqus launched a specific configuration of the Scarabee, designed for Special Forces. In this configuration, the Scarabee combines its native qualities - compactness, stealth, hybrid propulsion, mobility, energy carrying capacity and autonomy - with an RCWS for unique observation and collaborative combat capabilities.

Arqus is constantly looking forward to developing new partnerships and industrial cooperations around the world. Arqus provides its partners with advanced technology, mastery of complex industrial processes, and high-quality products. Depending on markets and cooperation agreements, Arqus can provide with tailored services, ranging from technology transfer and to joint development of new products.

Fabrice GAIME | Sales Manager - Special Forces

+33 (0)6 65 89 53 75

fabrice.gaime@arqus-defense.com

www.arqus-defense.com

5 rue Alfred Kastler | 78280 GUYANCOURT | FR



MOBILITY # ICTS and COMMAND # ACTION # INTELLIGENCE # OMA / TRAINING



ATOS

Connected defense – Create a decisive digital advantage during critical missions.

We provide digital systems to deliver decisive advantage on the 3 fields of actions of digital defense: forces coordination, decision support and operational readiness.

Forces coordination with end-to-end and easy-to-use battle management and digital soldier system, empowered with resilient and secure 4G/5G tactical communication solutions.

We delivered SICS to the French Army. This command-and-control system, which is part of the SCORPION program, is combat-proven. It is used by the French Land Army from the joint battle group to the squad.

Deploy private LTE network with *Lifelink* solutions (radio network and applications and all associated services), to cover the operation theater with mobile tactical networks, and meet communication requirements in harsh environments when no other network can. Ultra-compact, this private network can be carried anywhere on the field in a backpack or in a vehicle.

Decision support with airborne, in-vehicle and portable ISR, data collection and processing systems (SIGINT, OSINT) to deliver actionable intelligence at tactical and strategic scale.

Including the Avantix's *FlashHawk*, the compact airborne ISR solution for instantaneous 3D geolocation of radio-comm ground emitters, as well as compact and powerful communication signals solutions.

Operational readiness with onboard multilevel gateway for systems of systems cybersecure connectivity for air-land-sea platforms and *Elexo's* rugged computing solutions for critical missions.

Combat proven and future-proof, our connected defense solutions support the digitalization of defense operations.



Olivier BOUGEARD | MCS Defense solution sales manager

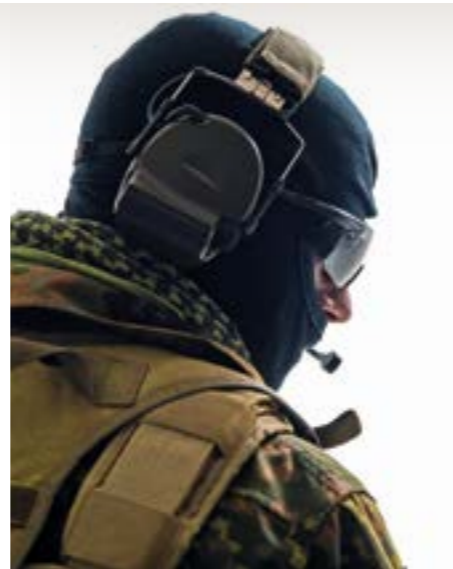
+33 (0)1 73 26 00 00

defense@atos.net

<https://atos.net/en/lp/connected-defense>

80 quai Voltaire | 95870 BEZONS | FR





BERNIER CONNECT S.A.S

Design and Manufacture Connectors.

Connectivity is our Expertise!

For over 90 years, BERNIER has designed and manufactured Interconnect solutions for the main defense companies in the world. The development of communication technologies requires the circulation of an ever-increasing volume of information, with operational connectivity needs expressed in terms of data transmission of audio, video, web, encrypted, power etc ... To meet these strategic needs for the defense and industrial sectors, BERNIER offers a range of specific connectors like:

CMA / CMASD / CMALD / CMA-USBC / MMC MIL-DTL-55116 / PAM(VG) / 221 / 360L6 / JCC / POW

as well as the possibility of studies based on your specifications. With our R&D and innovation expertise we will define together the best design solution for your projects.

Our specificities:

- Circular connectors • Push-Pull or Break-Away • Bayonet • Rugged • Ergonomics
- Compact • Low Profile • Watertightness • High Density • USBC • Power

Applications:

Audio / Data / WEB / Pictures / Videos / Encrypted data / Energy

Connectors for harsh environments for:

Land defense, Aeronautic, Navy, Robotic, Drones, Future soldiers, Radios, Intercom Rugged displays, Optronics, Headsets, Armored vehicles, Radar systems, Helicopter, Energy, Construction vehicles, and more ...

Let's set together the suitable design for your project !

Alexandre HUART | General Manager

+33 (0)1 60 84 21 40

info@bernier.tm.fr

www.bernier.tm.fr

4 avenue Condorcet | 91240 SAINT-MICHEL-SUR-ORGE | FR



BERTIN TECHNOLOGIES

French leading expert in innovation for Defense and Security.

Bertin Technologies is a major actor of the Defense & Security market in Europe. The company currently focuses its activities on 3 main ranges of solutions:

CBN threat detection & identification

Since the acquisition of the Finnish company Environics Oy in 2021, Bertin Technologies has further expanded its portfolio of CBN solutions and is currently a European leader in this area, providing the following solutions:

- Standoff & handheld gas detectors
- Biological detectors & air samplers
- Multiprobe survey meters
- Environmental radiation monitoring systems

Optronic surveillance

Through the brand Bertin Photonics, the company provides high-end optronic devices for surveillance applications and detection, reconnaissance and identification of threats and targets in any light conditions, for both military and civilian markets:

- **CamSight:** Thermal compact core cameras for complex optronic systems, be it manned or unmanned platforms (UGVs, UAVs, USVs), as well as any observation device
- **PeriSight:** Scalable optronic modules for enhanced vision on armored vehicles
- **FusionSight:** Handheld night & day vision enhancers

Unattended Ground Sensor (UGS) systems

Subsidiary of Bertin Technologies, Exensor is a Swedish-based, world-leading supplier of Unattended Ground Sensor (UGS) systems:

- **Flexnet:** The most mature, advanced and operational UGS system available on the market. Thanks to intelligent algorithms using a combination of seismic & acoustic, magnetic and thermal sensor data, Flexnet allows to detect, classify and identify threats and targets on the field. The system is remotely operated by a user-friendly C2 solution.

Rémi THOMAS | Optronic Sales Manager

+33 (0)6 44 20 84 13

remi.thomas@bertin.group

www.bertin-technologies.com | www.exensor.com

10 bis av. Ampère | 78180 MONTIGNY-LE-BRETONNEUX | FR





MOBILITY



BOLLORE LOGISTICS

End to end management of defense industry supply-chain.

Bolloré Logistics is recognized as a global expert in Defense sector based on the experience gained from working closely with the major players in this industry, which represents a major competitive advantage for our customers.

Bolloré Logistics **designs** the adequate operating modes with a tailor-made project management for defense industry players to respond to routine logistical challenges as well as urgent matters in foreign theatres of operations on 24h/7 basis.

The company **executes** integrated logistics solutions with multimodal transportation and specific industry services such as MCO/MRO support or vendors management.

Customers can **benefit** from our long expertise, giving us agility & reactivity to adapt discreetly to flow fluctuations, and ability to find specific handling equipment while managing all specific regulations. Our teams and structures located at all major airports and port hubs guarantee proximity services, market expertise and the end-to-end control of supply chains around the world.

Finally, our security officer oversees all defense operations to ensure complete compliance and secrecy.

Our Defense expertise relies on:

Security & Compliance

- Dedicated customs & compliance engineering
- Real-time monitoring
- Security management

Tailor-Made Project Management

- Multimodal transport & chartering with continuity plans

- Last-mile distribution even in remote areas
- Storage & logistics preparation
- **Optimized Performance & Costs**
- Quality control
- Vendor management
- Spare parts & maintenance mgt



Marc BRETON
Director of Development Europe | Aerospace, Defense & Marine Division

+33 (0)6 73 19 51 17

marc.breton@bolloré.com

www.bolloré-logistics.com

31-32 quai de Dion Bouton | 92800 PUTEAUX | FR



MOBILITY



BREN-TRONICS

Energy Storage and Smart Charging Capabilities.

Safety, Reliability and Performance.

BREN-TRONICS focuses on bringing armed forces around the world the latest and most efficient expeditionary power solutions for uninterrupted autonomy in the field since 1973.

Bren-Tronics' expertise remains focused where no one can compromise safety, reliability and performance. We offer the next generation of Li-Ion batteries as an advanced energy solution for use in multiple applications including tactical radiocommunication, optronic, electronic warfare, weapon system, robots and more. When it comes to helping military vehicle manufacturers and customers, Bren-Tronics answers three basic needs with the Li-Ion 6T format battery: Energy, weight and space. With this solution, they can drastically optimize their autonomy during silent watch missions.

An intelligent battery - a real system

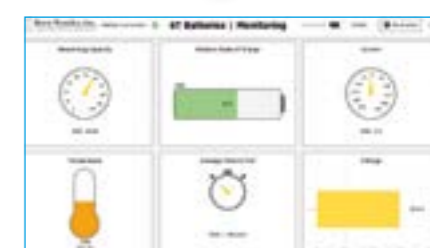
Building a safe and capacitive battery requires a real expertise. Our 6T Lithium-ion incorporates multi superior electronic protections and safety features as well as a CAN BUS data access to monitor all battery parameters at all times.

A solution for today's requirements with a reduced cost of ownership

Bren-Tronics' 6T batteries dramatically changes the operational capabilities of armored vehicles and the way in which military organizations manage the inventories of their vehicle batteries. The battery cycle life is extended from hundreds of charging cycles to thousands of cycles compared to lead acid and the maintenance is reduced to only one complete charge every two years while in storage conditions.

Operational advantages

Bren-Tronics's 6T batteries offer the best trade-off between power and energy density. While the battery is able to sustain the vehicle pulse cranking requirement to start the engine, the battery can also be charged in less than one hour and provide enough energy to multiple loads. Several batteries can run in parallel for extended silent watch missions.



Mathyas PETIT | Sales Director

+33 (0)1 40 59 61 57

sales@bren-tronics.fr

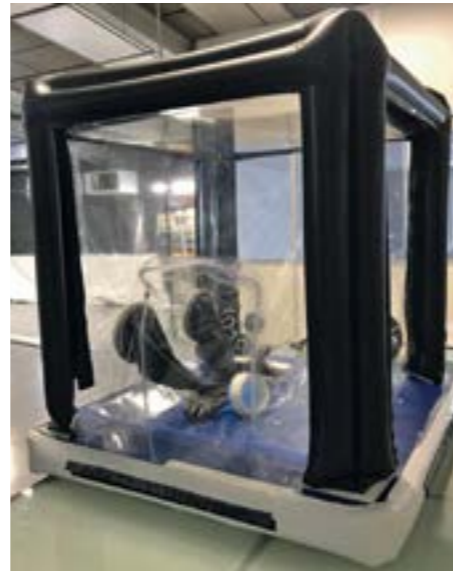
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20 rue Henri Regnault | 75014 PARIS | FR





MOBILITY # MEDICAL SUPPORT



CARMA MC

Innovation at the heart of the protection of people and equipment.

CARMA MC develops, manufactures, and markets innovative products resolutely focused on the human protection in hostile environment:

- Flexible structures (isolation, containment, decontamination, ventilation, filtration, and storage).
- Biological protections and NRBC
- Mobile digital communication systems.
- Specific custom-made protective items.

And other innovations...

CARMA MC supports its Customers in defining the need and provides them with a sales team and a design office that are real forces of proposals. Our teams are always looking for new technologies and strive to select a network of reliable and innovative partners in order to maintain a high level of performance and customer satisfaction.



Jean-Paul MAILLARD | Responsable Commercial

+33 (0)6 70 93 74 08

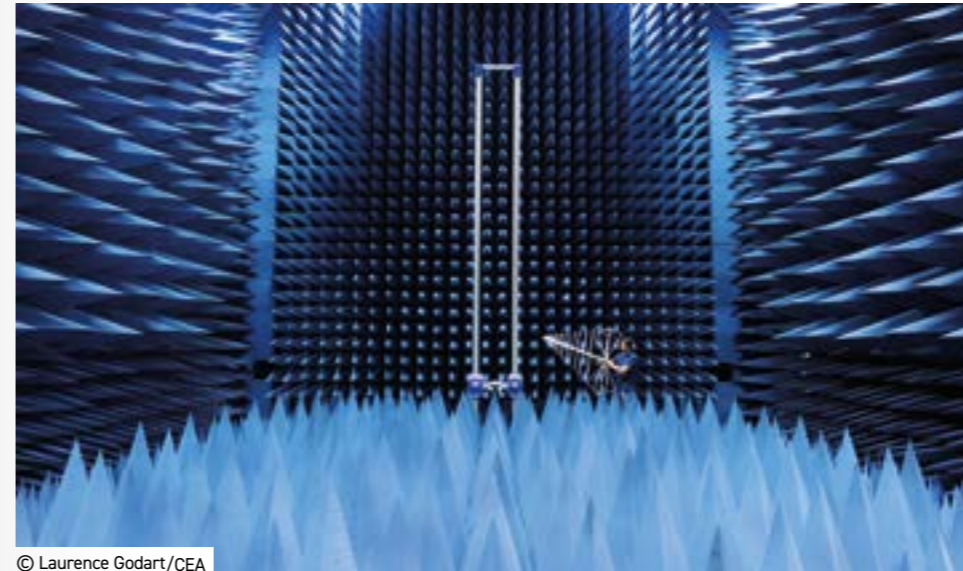
contact@carmamc.fr

www.carma-mc.fr

36 montée de la Ladrière | 38080 SAINT-ALBAN DE ROCHE | FR



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CEA

Research and technology for highly demanding applications.

The major French R&T organisation supporting industry up to technological and process transfer.

Ranked as the first French Research organisation by Clarivates, CEA tackles 4 main challenges: Energy Transition, Digital Transition, Medicine of the Future, Defence and Security.

Our 20000 people operate very large-scale research infrastructures, developing expertise from fundamental research up to industrialisation, both by bilateral partnerships and collaborative projects.

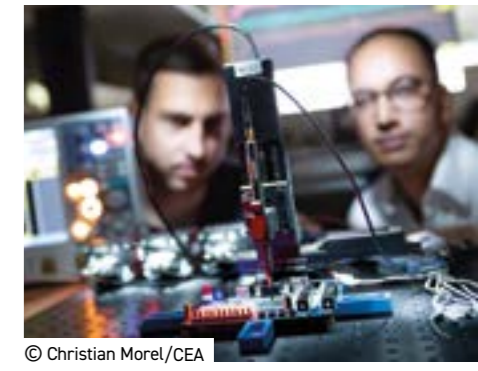
Acting as a driving force for competitiveness through innovation, we support all sectors, creating high-performance and trail-blazing solutions to meet our society evolution. We deploy this dynamic approach all over France, enabling to create sustainable value and jobs nationwide.

Our partners range from major groups to midcaps and SMEs, with a strong start-up commitment to own spinoffs or associated ones, agile vectors for transferring our disruptive technology and knowledge to industry.

Defence and security stands as a major pillar, far beyond the essential role CEA plays in French nuclear programs. Deploying our expertise to conventional sectors, we act as a stopshop for stakeholders, able to bring to military applications the best of innovative breakthrough from civilian sectors, as well as developing specific projects for the armed forces.

Our technological bricks in different fields such as AI, microelectronics, sensors, communications, cyber, CBRN, Energy, or materials and additive manufacturing are key enablers to increase autonomy, efficiency and reduce vulnerability of the future military systems.

CEA is also involved in European initiatives such as the European defence Fund with 13 winning collaborations in EDF21.



© Christian Morel/CEA



© Andréa Aubert/CEA



© D.Guillaudin/CEA. Fuel Cell Platform dedicated to PEMFC (Proton Exchange Membrane Fuel Cell) research and development at CEA

Jean-Xavier CHABANE | Head of Defence Program, CEA | Technology Research Division

Gaëlle MISTRULLI | Communication of Defence Program, CEA | Technology Research Division

+33 (0)6 17 25 06 50 | +33 (0)6 37 82 78 01

jean-xavier.chabane@cea.fr | gaëlle.mistrulli@cea.fr

https://www.cea.fr

17 avenue des Martyrs | 38000 GRENOBLE | FR





MOBILITY # ICTS and COMMAND # MEDICAL SUPPORT # OMA / TRAINING



CEGELEC DÉFENSE

Your trusted partner for Deployment Support and Infrastructure Protection.

For over 50 years Cegelec Défense has been a leading provider of both Passive and Active solutions for the Physical and Electromagnetic protection and resilience of critical National Security and Strategic premises, networks and Infrastructure.

This includes Faraday cages (IEMI protection) Kinetic, Blast, CBRN proofing and all access control, intrusion detection, video surveillance, hypervision solutions as well as building hardening.

Cegelec Défense is a manufacturer of Command and Deployment support containerized commodities specifically designed for the requirements of Armed and Security forces in operations.

All Mobile Command and Control units, Mobile Hospitals; COLPRO shelters, CBRN Decontamination Units, Water Purification Units comply with demanding military standards and air transportability requirements.

The expandable rigid walls design allow extremely rapid and flexible deployment as well as a drastic reduction of logistic requirements.

SIEPEL business Unit is a provider of leading infrastructure cybersecurity as well as EM measurement facilities (anechoic chambers etc.) with all resources to implement Technical Surveillance Counter Measures (electromagnetic sweeping).

The Mechatronics Solutions business unit is also a designer and manufacturer of land, sea and Air turrets and positioner for the whole spectrum of ISR and communications payloads as well as weapon systems.



MOBILITY # OMA / TRAINING



CENTIGON FRANCE

Armored solutions since 1948.

Centigon France is a team of experts who, since 1948, have been offering vehicle armoring solutions of recognized quality and service throughout the world.

With more than 70 years of experience in the fields of armor and personal protection, Centigon France develops and manufactures a wide range of armored vehicles and solutions (protected 4x4, sedans, military vehicles, truck cabs, etc.). More specifically, Centigon France is specialised in the design and transformation of 3 ranges of armoured solutions – even if other customized solutions can be offered:

- The FORTRESS 300: the armored version by Centigon France of the famous Land Cruiser, in its most recent version (LC300), designed to fulfill many missions (escort / authorities, intervention, etc.)
- The armored Ford Ranger: the 4X4 protected pick-up, responding to the need of many homeland security actors (patrol, security, surveillance, etc.).
- The truck armored cabin: several levels of STANAG protection are available, comfort and ergonomics are identical to the unprotected cab, designed and produced in Europe.

Thanks to its production capacity, know-how and ballistic expertise, Centigon France offers multiple protections covering ballistic threats (handguns, assault weapons, AP) and explosive threats. Solidly based in Lamballe (Brittany) and Antony (Ile de France), Centigon France is one of the leaders on its markets in Europe, Africa and the Middle East. Centigon France employs about 155 people in France.



Henri CHEVREUL | Business Development Manager

+33 (0)5 62 87 00 97

henri.chevreul@cegelec.com

www.cegelec-defense.com

1 rond-point du Général Eisenhower | 31100 TOULOUSE | FR



Nicolas LECOMTE | Marketing & Communication Manager

+33 (0)2 96 50 12 80

contact@centigon.com

www.centigon.com

Z.I. rue d'Armor | 22400 LAMBALLE | FR





INTELLIGENCE



MEDUSA



HYDRA



CHIMERA

CERBAIR

Anti-drone Technology Specialist

Founded in 2015, CERBAIR is the French reference in Counter-UAV systems (RF Detection & Intelligent Jamming).

Its systems protect the airspace around dismounted operators, large events and critical infrastructures such as warships, military bases, prisons, civilian airports, harbours, presidential palace and VVIP convoys. CERBAIR provides radio frequency technology used directly on site by operators, installed on mobile platforms (ships, land and air vehicles) or integrated in complex systems.

CERBAIR designs and manufactures its systems in France with major references such as the Ministry of Defence, Ministry of the Interior and Ministry of Justice in France and abroad. CERBAIR has been awarded with the latest reference programs: counter-UAS systems on-board the latest warships ordered by a major European Navy, French prisons program (50 sites over 4 years) and PARADE, the French MOD C-UAS 11-year programme.

3 PRODUCT LINES designed for different types of uses:

HYDRA: Full range of radio frequency detection systems, using the latest software defined radio based technology, with two levels of customization; stationary for corporate buildings or mobile for law enforcement for large events.

MEDUSA: This device allows to customize a jammer with a choice of format: fixed or mobile - Accuracy: via the antennas type for omnidirectional or direction finding - Reach: several levels of coverage and range.

CHIMERA: To date, the world's only portable solution that has successfully merged drone detection and neutralization technologies in the same hardware base. This complete, miniaturized solution detects drones and their pilots from the moment their remote control is powered up.

Emmanuel NABET | CCO

+33 (0)6 10 60 52 70

emmanuel.nabet@cerbair.com

www.cerbair.com

47 rue de la Vanne | 92120 MONTROUGE | FR



MOBILITY



ACTION



INTELLIGENCE



CESTA

Simulation and modelling for Decision making.

For 40 years CESTA provided game changer tools to the French Forces for time sensitive multidomains engagements.

Among CESTAs products is the ODESSA Software suite (Organisation des DEploiements deS Systèmes d'Armes) for mission planning and decision making at the tactical level.

ODESSA suite is field-proven within French Army, Air Force, Navy and Joint HQ for various operational use cases, defensive and offensive, either homeland defense or overseas operations. Its generic multi-domain adaptative nature makes the software especially suited for special operations essential requirements.

Among others, its simulation experience makes CESTA involved in the modeling of visible and optronic systems. Those simulations show clearly that the performance of optronic systems depends on very numerous parameters with often counterintuitive results.

This observation makes clear the interest of an application to help preparation of intelligence mission using optic and optronic systems. To answer, CESTA developed a specific application of his ODESSA Software Suite, ODESSA DRI, dedicated to the Special Forces.

ODESSA DRI provides to the mission planners reliable and robust solutions for tactical optimum placement to see without being seen. ODESSA DRI is an operational efficiency multiplier for mission success.



Pierre HUNAUT | President

+33 (0)6 08 53 49 21

contact@cesta.fr

https://cesta.fr/

Le Cicéa Bât 3 | rue du Courtil | 35170 BRUZ | FR





MOBILITY



CEV

CEV is a French supplier of winches for mission-critical environments. Established in 1946, CEV also offers mounting and after-sales services.

Mission-critical environments

Our Ramsey Patriot winches are designed to perform mission-critical work in a variety of environments. Designs are subjected to rigorous testing through failure - ensuring peak performance supported by the highest quality materials and dedicated engineering team. With an IP67 rating, The Patriot defense-level winches can be depended on to perform whether it's fording a water or crossing a desert. The patented electronic overload system (OLI), and optimized thermal protection device (TLM) achieve the fastest recovery times in the market. This means your winch is enduring, tough, and rugged during the most severe mission-critical environments.

Defense recovery

Defense operations are the most critical environments for heavy-duty equipment. We propose time- and field- tested winches that perform when they need to. From the harsh terrains of the Middle East to the Arctic tundra of North America, these winches outlasted these severe conditions.

OLI & TLM

The patented Overload Interruption (OLI) technology prevents the winch from exceeding rated load to execute consistent, reliable recovery. Customizable to settings from the factory to specific vehicle requirements allow the operator to utilize one winch for multiple vehicle requirements. The **Thermal Limiting Module (TLM)** ensures operation within upper and lower thermal thresholds to achieve the fastest recovery times and best-in-class duty cycle time. Two digital outputs are available with "run" and "ready" lights for quick operator identification and ease of use.

Hubert FALQUE | Managing Director

+33 (0)1 34 75 55 02

commercial@cev-treuil.com

<https://cev-treuil.com>

Zone Industrielle du Petit Parc | 78920 ECQUEVILLY | FR



MOBILITY



ICTS and COMMAND



ACTION



CILAS

Expert in laser and optronics.

The pioneer in the field of lasers in France and a historical supplier to the armed forces.

Laser target designators by CILAS have been used since the 1990s by the armed forces, particularly Special Forces, to designate targets for laser-guided weapons fired from combat aircraft and helicopters, at a distance of a few kilometres, day and night.

The DHY 308 and DHY 208 are considerably more powerful and lighter than the previous generation. This new generation of equipment does not require active cooling and the systems are compatible with several thermal imaging cameras and multiple customisation options.

The DHY 308 and DHY 208 meet the payload constraints of the increasingly equipped modern infantryman. The laser is much more efficient, particularly in terms of stability and precision.

CILAS' laser weapons offer a disruptive technology for a wide range of operations. The operational coverage is wide: from protecting against direct attacks, to securing against potential threats, to neutralising adversary assets.

HELMA-P is capable of detecting, identifying, tracking and neutralising an agile target like drones with extreme accuracy in both operational and urban environments and without ammunition.

The laser beam power is adjustable from optical jamming to destruction or ignition. With a silent and invisible laser beam, HELMA-P is stealthier than any other anti-drone system.



Laurent TARD | Sales & Marketing manager

+33 (0)6 86 15 63 97

tard@cilas.com

www.cilas.com

8 avenue Buffon | CS 16319 | 45063 ORLÉANS Cedex 2 | FR





Expérimentation char Leclerc



CAO de pièces



CAO de pièces

CKP ENGINEERING

A French industry serving defense interests.

CKP Engineering designs and industrializes innovative solutions and products customized to its various markets.

Most of these solutions and products are patented.

- PREDICTIVE MAINTENANCE
- REGENERATION OF POTENTIAL
- MOBILITY - Powertrain: frame, gearbox, transmission

Today 3 products are available:

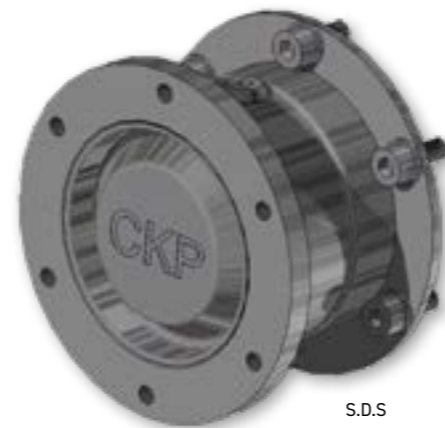
- SECURITY DRIVING SYSTEM (SDS): prevents steering mishaps during critical driving situations
- HEALTH: plans and anticipates potential failures (Leclerc tank experimentation; ...)
- COMPARE: working towards the perfect move

A digital twin expert

Created in 2017, CKP has become an innovative SME working with major industrial groups (Nexter, Decathlon, ...) and organizations (SIMMT...). Thanks to its agility and solid background in digital simulation and retro engineering, CKP can propose:

- the design of innovative solutions tailored to any type of mobility issues.
- and even the production in limited series of parts which have failed and are not manufactured anymore.

More than 60 experts are engaged closely with our customers all year long on various projects. Our firm also relies on a rich worldwide network of 350 suppliers



S.D.S



Compare

👤 Julien FERRAZZO | CEO
 ☎️ +33 (0)5 58 03 19 42
 ✉️ julien.ferrazzo@ckp-engineering.fr
 🌐 www.ckp-engineering.fr
 📍 18 rue Pasquier | 75008 PARIS | FR



CNIM SYSTÈMES INDUSTRIELS ROCUS, ROute Clearance Unmanned System.

CNIM Systèmes Industriels is a key partner for military units.

It offers a range of proven reliable equipment and solutions at the leading edge of technology. CNIM Systèmes Industriels is developing robotics activities for engineers and infantrymen, to support mobility and protect the soldier.

Faced with the problem of IED in the current conflicts, ROCUS, Route Clearance Unmanned System, supports forces by drastically reducing their exposure to threats & allowing them to carry out their mission.

Operated out-of-sight, from inside an armoured vehicle, **ROCUS** enables safer military operations. Easy to use, the ROCUS offers a user-friendly interface. Highly mobile (tracked vehicle) and towable across any terrain, it supports troops in remote locations.

The ROCUS is equipped with rugged, simple-to-operate tools such as ground blade for obstacle clearance operations, rake/hoer tool to dig into and break up ground, grapple and winch.

Performances:

- 20 km/h | 10 h endurance
- Robotic arm with 100 kg lift capability @ 4 m
- Ability to operate day and night

Able to operate in difficult terrain, combining endurance & robustness, ROCUS allows threat to be inspected, confirmed and neutralized to ensure the safety of soldiers and the advance of convoys.



👤 Louis DELTOUR | VP Sales Defence
 ☎️ +33 (0)4 94 10 30 00
 ✉️ contact-systèmes-industriels@cnim.com
 🌐 https://cnim-systèmes-industriels.com
 📍 Zone Portuaire de Brégailon | CS 60208
 83507 LA SEYNE-SUR-MER cedex | FR





MOBILITY # ICTS and COMMAND # ACTION # INTELLIGENCE # OMA / TRAINING



COMROD FRANCE

Specialist in tactical telecommunication equipments.

COMROD is a world leading manufacturer of tactical antennas, telescopic and sectional masts, power supplies, automatic positioners as well as communication planning software, with thousands of units in operation.

We build combat proven equipment for the harshest environments, combining robustness and performances in the most compact form factor. COMROD also promotes disruptive technologies and advanced solutions to improve the existing tactical capacities.

Our antennas cover from HF to SHF frequency bands, for vehicle, manpack and hand-held tactical radios, including LTE, MESH and SATCOM applications.

The tactical mast portfolio is among the widest in the market from sectional tripods to fully automated telescopic masts, and from field man-pack to vehicle on-the-move applications. COMROD also manufactures a unique series of automated antenna positioners allowing quick deployment of long-range Line-of-sight systems.

Communication planning software links all communication equipment and ancillaries in the same screen. Displaying the tactical communication configurations, deployment map and timeline.

As advanced communications systems demand more and more power, COMROD also provides a wide range of high power software defined power supplies and battery chargers, AC/DC, DC/DC and DC/AC.



Benjamin CHOTEAU | Sales Director

+33 (0)6 72 59 31 52

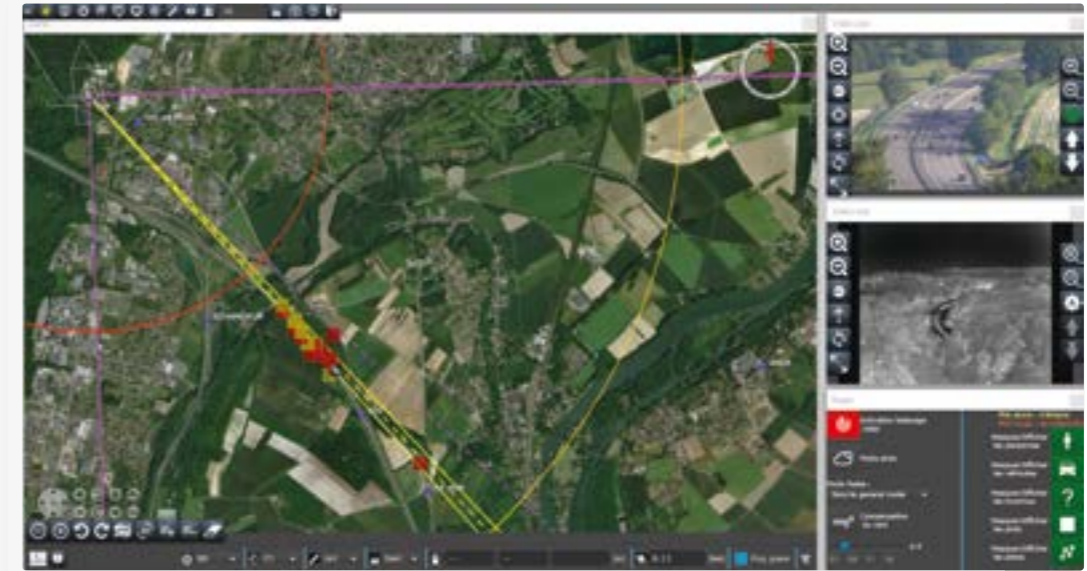
b.choteau@comrod.fr

www.comrod.com

600 chemin des Hamaides | 59732 SAINT-AMAND-LES-EAUX | FR



INTELLIGENCE



CORDON DS2i

Defense, Security, Imagery and Innovations for the military.

CORDON DS2i has more than 25 years of experience in military systems integration (products, turnkey solutions, services, worldwide support).

CORDON DS2i is specialized in the supply of mobile and autonomous systems, dedicated to intelligence, usable in the field under the worst conditions.

Its systems are scalable and benefit from the latest technologies in sensors, AI, digital mapping, software engineering, information processing, anti-drone fight.

Product: Second Generation Mobile Detection and Intelligence System

This autonomous all-terrain vehicle allows long-range surveillance of borders or AOI. Operated by a single staff, operational in 10 minutes, it detects and locates movements up to 10 km on digital maps, and allows their identification by day and night.

Discreet, Multi-sensors (Radar, cameras, AIS receiver, UAVs detectors...), self-protected (perimeter detection), communicating (COMSAT system), its design makes it an integrated system, efficient, easy to use and versatile.

The software application provides the operator with an operational interface for:

- mission preparation,
- the presentation of an automatically generated situation report with all the information acquired by the sensors,
- the control of the detection and doubt removal sensors

Product: Dome for the Protection of Sensitive Infrastructures

This transportable and autonomous system allows day and night perimeter surveillance of an area (camps, infrastructures, Forward Operating Base, ...)

Deployed between 30 minutes and 2 hours depending on the version, it automatically detects on 360° and locates on digital cartography movements up to 1500 m and more than 90% of UAVs at 10 km.

The integration of sensors of different technologies and AI allows a low rate of false alarms and the removal of doubt is done by camera or drone in automatic flight.



Olivier ISTIN | General Manager

+33 (0)2 32 63 59 00

contact.DS2i@cordonds2i.com

www.cordonds2i.com

Parc d'affaires des Portes | 193 voie du Futur
21706 VAL DE REUIL Cedex | FR





MOBILITY # ICTS and COMMAND



CROSSCALL

Innovative and customised solutions to respond to the new challenges of critical communications.

Ruggedized and waterproof smartphones, tablets and accessories.

Crosscall designs comprehensive mobile telecommunications solutions, particularly focusing on communication and data sharing for the most demanding professionals on the field. With terminals that excel both in terms of performance and durability, the manufacturer, having also made its products compatible with high-speed transmissions and secure communication channels, already perfectly meets their requirements and expectations regarding critical communication.

Crosscall has distinguished itself from other telephony stakeholders through the singular nature of the relations it has created with its clients and the personnel using its products. Such close ties enable Crosscall to design solutions that optimally adapt to the specific requirements identified for each sector, going as far as to offer tailored and fully customized solutions when necessary. That design process was applied to the development of the CORE-X4 Neo and the CORE-Z5.

The drafting of the technical specifications of these smartphones was the outcome of a large number of meetings and workshops with national and regional police officers, firefighters and paramedics. This consultation process was essential to understand and respond to their specific needs and it enabled, for example, the creation and ideal positioning of the customisable buttons dedicated to group communications, that can be used with gloves and in the rain without needing to even glance at the phone.

This process is also what made the CORE-Z5 the first 5G smartphone in the world to support bandwidth 68, a secured frequency dedicated to the French Ministry of the Interior.



Denis THAYANITHY | Solutions and partnerships director

+33 (0)7 61 06 03 16

denis.thayanithy@crosscall.com

www.crosscall.com

245 rue Paul Langevin | 13290 AIX-EN-PROVENCE | FR



MOBILITY # ICTS and COMMAND # ACTION # INTELLIGENCE # OMA / TRAINING



CS GROUP

Working by your side to tackle your critical challenges

CS GROUP designs, develops, deploys, maintains and operates intelligent and cyber-protected critical systems.

These systems, based on CS GROUP's innovative & sovereign products and solutions, guarantee the efficiency and security of our customers' critical operations and missions in constrained environments.

CS GROUP masters the essential levers for developing command and control (C2) systems, which integrate data intelligence (AI) for decision support, embedded cybersecurity and secure communications.

Based on interoperable, scalable & «security by design» architectures and thanks to its business expertise, CS GROUP offers multi-domain operation systems (stationary and mobile) to ensure efficiency of operations and protection of sensitive sites/ areas and events.

For instance:

CS GROUP has developed a counter-UAV system, BOREADES, used by Joint armed forces and civil security. Built around a command and control center (C2) and specific sensors and effectors integration capabilities, this system allows to detect, identify and neutralize illicit drones.

To ensure the coordination of multi-domain operations and the overall security (multi-threats), CS GROUP deploys its CRIMSON Command Center.

CS GROUP is also a leading player in the field of training and mission preparation, with a «network-centric» approach thanks to its Tactical Data Link capabilities.

At the forefront of innovation, CS GROUP keeps a constant watch to adapt its systems to the evolution of the threat and thus respond effectively to the operational needs of its customers.

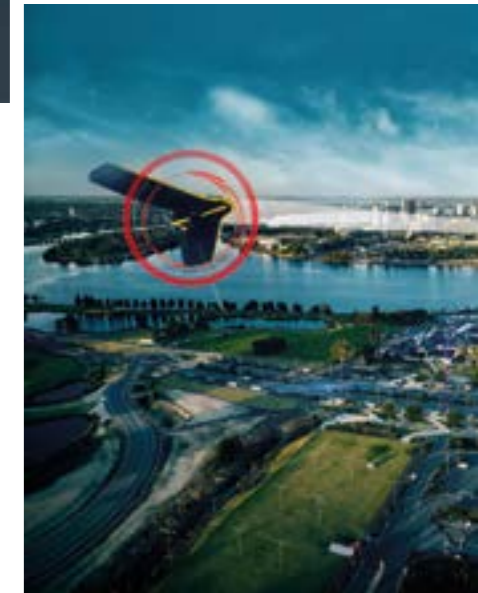
Barbara GOARANT | Directrice Marketing

+33 (0)1 41 28 46 94

communication@csgroup.eu

www.csgroup.eu

22 avenue Galilée | 92350 LE PLESSIS ROBINSON | FR





MOBILITY # ICTS and COMMAND # ACTION # INTELLIGENCE



DATAHERTZ

Tactical Voice, Video and Data Radio Network Specialist.

Providing tailor-made solutions to operate in harsh environments.

DataHertz SA group employs around 100 people, spread over our 8 French facilities. Based on a long and solid partnership with best in class manufacturers like Motorola and Persistent Systems combined with our R&D capability and subject matter experts, we provide integrated solutions to communicate throughout the tactical chain wherever required.

Main activities:

- Design, distribution, training, deployment and maintenance for radiocommunication and telecom networks.
- Inhouse software development (mapping, operational databases, application launcher, indoor/outdoor geolocation etc...)
- Design, test and deployment of tactical network solutions (Voice, Video, Data) for the needs of intervention groups such as SOF or Navy VBSS. It includes solutions for long distance boat to boat (or boat to shore) and Air to Ground communications.

Since 2017, DataHertz is the exclusive distributor for France of Persistent Systems' MPU5 radios.

Through this partnership DataHertz is actively engaged to promote interoperability between UAVs, UGVs, and USVs in mobile ad-hoc networks (MANETs) within an ecosystem of manufacturers to enable the unmanned systems to communicate and coordinate effectively with the deployed operators and the Command Center.

By enabling interoperability, dismounted soldiers and heterogeneous unmanned systems can work together to perform all kind of missions, such as surveillance, reconnaissance, SAR operations etc...



Olivier ESCAFFRE | Business Development Director

+33 (0)6 14 22 78 15

olivier.escaffre@datahertz.fr

<https://datahertz.fr>

94 allée Jacqueline Auriol | 30320 MARGUERITES | FR



ACTION



DBD

Unrivalled expertise in explosives initiation devices and firing systems.

Explosives and pyrotechnic compositions manufacturer, DBD offers standard or fully customizable pyrotechnic initiators, to guarantee success of both land-based and underwater missions

Engaged in hazardous operations, Special Forces must benefit from the most efficient equipment. DBD offers easy-to-use, light, safe and robust explosive initiation solutions fitted to modern battlefield constraints and operations.

For the success of missions and operations as various as breaching, demolition, EOD and IEDD, DBD stands out with premium solutions. Superiority is given to users on the fields by offering:

- **The highest safety of use** for firing and operating conditions
 - Low intensity to 1A 1W sensitivity for electrical product range,
 - Nonel solutions for the most EMC demanding environments,
- **The selection of the best fitting energetic materials** for targeted effects whether detonating, blasting, incendiary or flaming
- **The mastering of explosive load weights**, from the slightest to the most powerful effects:
 - 150mg to 2g range for detonators,
 - 20mg to 50g for igniters and special devices,
 - 5g/m to 70g/m range for detonating cords,
- **Deep water compliant assemblies.**

DBD PREMIUM SOLUTIONS

- Conventional detonators (electric, non-electric)
- Remote-controlled digital detonators
- Shock tube assemblies • Igniters, flame generators and thermites
- Flexible detonating cord • Mini-shaped charges • Custom packaging solutions

All products can be proposed in live, practice and dummy versions.



Frédéric BOUDIER | Special units, EOD applications

+33 (0)3 86 47 30 00

sales@db-defense.com

www.db-defense.com

Le Moulin Gaspard | 89550 HERY | FR





ICTS and COMMAND # INTELLIGENCE # OMA / TRAINING



DÉFENSE CONSEIL INTERNATIONAL (DCI GROUP)

DCI group is the operator of the French Ministry for the Armed Forces for the transfer of French armed forces' know-how to international partners.

We offer our institutional and industrial partners customized solutions for all their capability development needs to tackle international and regional security challenges.

We advise and train Special Forces while taking into account the extensive know-how and operational feedbacks from the French Special Forces over the last 30 years.

Our expertises include:

- Planification and conduct of special operations in a multi-domain environment
- Land commandos, paratroopers, snipers
- Naval commandos, fast boats, maritime counter-terrorism
- Air commandos, Combat Search & Rescue (C-SAR)
- Specific environments: Desert, Mountain, Urban and Amphibious Warfare
- Intelligence, Surveillance & Reconnaissance (ISR)
- Drones and Counter-Unmanned Air Systems (C-UAS)
- Helicopters: tactical flights, Night Vision Goggles (NVG), C-SAR, Helo sniper...

Our solutions include consulting & assistance (ex: doctrines, Concepts of Operations, organization), operational trainings for all grades and levels (basic, intermediate, advanced) and the set-up of dedicated training centers.

We have trained more than 3500 Special Forces' officers, NCOs and operators since 2011.

Loïc AUDONNET | Head of Marketing & Communication

+33 (0)1 44 95 26 00

loic.audonnet@groupepci.com

https://groupepci.com

Immeuble Arc Ouest, 27-29 rue Leblanc | 75015 PARIS | FR



MOBILITY # ICTS and COMMAND # ACTION # INTELLIGENCE



DELAIR Drones for Security and Defense.

Delair, as one of the world leading drone manufacturer company, offers high performance fixed wing UAV around the world since 2011, for border surveillance, reconnaissance, intelligence and special operations forces.

Our drones are designed for continual use in all seasons, are robust and easy to maintain in operational condition, with quality and industrial sensors.

It offers the following product range:

UX11: 1,4 kg • 80 min • 10 km

Discreet, hand launched, easy to deploy, lightweight and fully automatic UAV for high accuracy, tactical mapping. Among other things, it allows real time capture, aerial photos at day and night and turns them into maps for geo intelligence.

DT26E: 16 kg • 3h • 50 km

Stealth & Rugged. Field-proven UAV for precise intelligence and reconnaissance of critical areas. The long range tactical UAV secure sensitive areas over large distances.

DT46: 25 kg • 7h30 • 150 km • Swappable dual payload

Long range made easy. Delair's new stealthy, very long endurance and range, multi mission & multi sensor drone, designed for ultra BVLOS, and convertible from a fixed-wing configuration to a VTOL system in just 15 minutes in the field without tools. Available also in Hydrogen configuration.

Long range made easy.

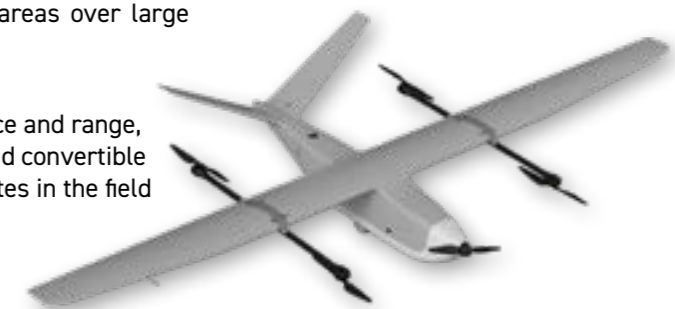


UX11

Product selected by



DT26E



DT46

Vincent DESPERIERE | Head of Sales - Security & Defense

+33 (0)7 69 73 43 28

contact@delair.aero

https://delair.aero

676 rue Max Planck | 31670 LABÈGE | FR





DIODON DRONE TECHNOLOGY

Mini-UAS for maritime & coastal operations.

Created in 2017 to meet a need for military-grade waterproof unmanned aerial systems, DIODON DRONE TECHNOLOGY is specialised in manufacturing waterproof mini-UAS for aeromarine operations.

Semi-rigid waterproof DIODON HP30 drone:

The DIODON HP30 is a 2-kg semi-rigid aerial drone natively conceived for maritime and aquatic environments. Built with the feedback from marine special forces and first responders, it is 100% waterproof and may be integrated from Rigid-Hull Inflatable Boats to patrol vessels to improve situational awareness. Equipped with top of the range EO/IR sensors and thanks to its maritime capabilities, the DIODON HP30 is an easy and robust optronics detection & surveillance tactical system adapted to a large range of operations at sea, on the coastline, in harbours, as well as internal waters and flooded areas, such as:

- Aeronaval and air-land defence operations,
- Surveillance and control operation relative to the State Action at Sea,
- Search and Rescue operation at sea,
- Pollution response and assistance to ships in distress,
- Offshore operations.

Freeing the operator from "drone in the water" preoccupations, its amphibious nature opens the door to new tactical schemes.

Bespoke drone capability:

By designing and manufacturing its systems in France, DIODON DRONE TECHNOLOGY is able to work on bespoke aerial drone capabilities for maritime applications, including ongoing programs for submarine launched drones (SLUAS) and modular and autonomous waterproof drones.



👤 Quentin BIZOT | Sales manager
 ☎️ +33 (0)6 95 44 97 25
 ✉️ quentin.bizot@diodon-drone.com
 🌐 www.diodon-drone.com
 📍 815 La Pyrénéenne | 31670 LABÈGE | FR



DOCARET

Your ambitions, our expertise.

Engineering, Maintenance, Repair and Operation, Training & Learning Solutions.

Our experts are dedicated to improving our clients' industrial performance in manufacturing and operation of Defense Systems in sea, land, air and space.

For over 40 years, Docaret is a recognized partner for providing skilled professionals in Engineering, Manufacturing, Maintenance, Repair and Operation as well as Technical Publication.

We develop training material and offer on-site training services. Our unique presentation tool maximizes knowledge retention for in-class lessons. Docaret can also manage your training centers at every level.

Through our subsidiaries we provide a wider range of complementary services for our clients:

Yatic designs and develops software solutions for Embedded systems as well as custom Applications and Platforms. Its services include the Design and Deployment of Networks and Infrastructures.

Track & Locate offers a cutting-edge solution for monitoring production assets and optimizing Supply chain & Manufacturing processes.

To support your efforts in Communication and Marketing our internal team of project managers and graphic designers will take your events and brand impact to the next level.

We stand out for our ability to quickly find the right expertise for your projects and deliver sustained efforts to reach your most challenging goals.

Let's team up to shape a new era in your activities.

👤 Christophe CORNIER | Chief Executive Officer
 ☎️ +33 (0)7 62 83 26 72
 ✉️ contact@docaret.com
 🌐 www.docaret.com
 📍 10 rue Chevreur | 92150 SURESNES | FR





MOBILITY # ICTS and COMMAND # INTELLIGENCE # OMA / TRAINING



DRONE VOLT

Professional drone manufacturer and retailer with a range of UAVs, sensors and cameras dedicated to the security and surveillance sector. As a global partner, DRONE VOLT offers its customers «turnkey» solutions including various services and training in UAV piloting.

HELIPLANE LRS PRO

Our VTOL drone combines the advantages of a multirotor drone with those of a fixed-wing UAV. The transition between the two flight modes frees up take-off and landing runways. It can achieve 180 minutes of flight time and cover up to 195 linear km. Thanks to its relay antenna, video streaming on the remote controller is possible up to 80 km distance. Polyvalent, this drone can carry multiple payloads that will fit to diverse missions (RGB / thermal camera, LiDAR).

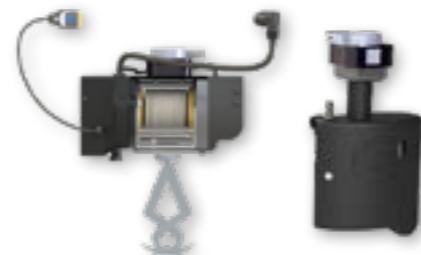
THE HERCULES 20

This robust heavy-lift drone is an ideal tool for carrying heavy loads of up to 15 kg, in difficult to access areas. Equipped with its winch or dropper, it can transport and drop emergency equipment for intervention and rescue forces (defibrillator, tools, food supplies, etc.)

With each of these payloads, an integrated camera provides video feedback to the remote controller, allowing you to operate a precise drop on a determined area.

ASIO PRO (Flybotix)

The ASIO Pro drone from Flybotix is a mini indoor inspection drone, capable of operating in extremely confined environments (tanks, tunnels, etc). Its small size allows it to explore the smallest places while ensuring the safety of your teams.



Winch

Dropper



Sales Department

+33 (0)1 80 89 44 44

contact@dronevolt.com

www.dronevolt.com

14 rue de la Perdrix | Lot 201 | 93420 VILLEPINTE | FR



DRONE VOLT



MOBILITY



DUST MOBILE

Cyber defense mobile operator.

Dust Mobile was created with two means goals, not cover until there:

- Protect cellular transmissions from intrinsic mobile networks threats & vulnerabilities
- Optimize service coverage and resiliency by leveraging all available network connectivity

The solution, Cybercell Suite, offers secure and resilient mobile communications locally and worldwide to protect privacy, mission critical transmissions and out-of-band network connectivity.

Cybercell Suite is designed to support their customer against cyber threats and cellular networks malicious attacks : interception, impersonation, position tracking, denial of service...

Dust Mobile is leading a cyber defense evolution with a disruptive proprietary SIM that works worldwide, across 214 countries and territories supported by 684 cellular network partners.

Device agnostic, any app can be used seamlessly, transparently, but securely.

Priority is given to protecting critical business operations with an integrated set of services to thwart mobile advanced intelligence to detect, prevent, block and respond to sophisticated malicious applications attacks and exploitable network vulnerabilities.

The Selfcare provides real-time visibility into communications security, cellular environment, network signaling, threats and counter-measures.



Julie BOTQUELEN | VP Sales Gov & Defense

+33 (0)6 44 50 10 89

jbn@dustmobile.com

<https://dustmobile.com>

18 rue Horace Vernet | 92130 ISSY-LES-MOULINEAUX | FR



dust MOBILE



MOBILITY # ICTS and COMMAND # ACTION



ELNO

Main partner of French Army, ELNO is one of the world's leading suppliers of headsets and intercom for armoured vehicles.

During SOFINS, ELNO will introduce its latest innovations:

- **HOPLITE**, new generation of communicating headset, the latest innovations for dismounted or mounted soldiers, new performances that matches comfort of use: cartilaginous conduction technology, optimized DNR for speech.
- **HOPLITE** provides a high level of ease of use and passive protection thanks to its ergonomic ear pads and allows communication in noisy environments. Cartilaginous conduction offers the operator the possibility of using ear plugs for double hearing protection in very noisy environments.

For outdoor use, the 3-dimensional exterior listening option 3D TalkThrough® reproduces ambient noise and offers the user a real spatial perception of his 360° environment.

- **ELIPS TY™**, last evolution of ELIPS™ range, fitted for small vehicles: more compact, daisy chain mounting, PoE supply... while maintaining high-level performance, and a unique flexibility in mounting with great ease of use.
- **ELIPS TY™** use full IP technology and don't need a central box as each crew box has the soft to make programming for mission

Modular architecture according to the vehicle platform

- **ELIPS TY™** is fully compliant with all Radios and Audio accessories use on the Market



👤 Arnaud DELABY | VP Sales & Marketing

☎ +33 (0)6 45 36 56 93

✉ a.delaby@elno.fr

🌐 www.elno.fr

📍 43 rue Michel Carré | 95100 ARGENTEUIL | FR



INTELLIGENCE



Our product lines

- **Day and thermal sights, observation systems**
 - Portable optronics for observation and telemetry
 - Thermal and day targeting optics
 - Fire control systems
 - Thermal and night vision clip-on
- **Vehicle Optronics**
 - Fire control and surveillance systems
- **Artillery**
 - Goniometers
 - Direct Firing Scopes
- **Harmonization**
 - Video boresighting scopes
 - Optical boresighting scopes
 - Harmonization day cameras
 - Calibrated rods for boresighters
- **Maritime Optronics**
 - Bearing Alidades
 - Periscopes



ELYNXO OPTRONICS (EX SCROME) High performance optronics, designed and made in France.

NATO supplier with exclusive contracts for the manufacturing of various optronic products with several European military forces.

The company has strong engineering capabilities in optics, mechanics, electronics, and software. Based either on its own specifications or on specific requirements from its customers, ELYNXO works from prototyping up to serial production and intervenes along the complete product life cycle, including maintenance.

Day and thermal sights, portable optronic systems

ELYNXO's portable optronic systems cover the operational requirements of special operations: intelligence, engagement, accuracy, robustness, reliability, etc.

In 2022, ELYNXO displayed VIRTUOSE™, a new-generation multifunction monocular with a unique combination of thermal imaging and direct light path within the smallest footprint on the market. It features a highly robust design, extreme compactness and lightness (900g), and an instinctive HMI. Moreover, Virtuose™ includes a long distance LRF and various sensors allowing extraction of target coordinates, recording and sharing of video streams, connectivity with smartphones or other platforms and applications (mapping, tactical situation management, ballistic computing, ...) making it fully operational for battle management integration.

Vehicle Optronics

Our high added-value and highly resistant solutions can be easily integrated into every new wheeled, tracked or armored vehicle for surveillance, boresighting and fire control applications.

Artillery

ELYNXO offers artillery solutions significantly improving accuracy in all conditions, as required in a high intensity combat situation. Our combat-proven products, used in many armies, benefit from a worldwide reputation based on their quality, efficiency and reliability.

👤 Laurie JACOB | Responsable Commercial

☎ +33 (0)1 46 74 11 19

✉ contact@elynxo-group.fr

🌐 www.elynxo-group.fr

📍 1 rue Jacques Rueff | 92160 ANTONY | FR



Portable Optronics

VIRTUOSE

Lightweight Multifunction Monocular

900G OF UNMATCHED CAPABILITIES

HIGH DEFINITION THERMAL IMAGING + DIRECT LIGHT PATH

LASER RANGE FINDER

- + Long DRG Range
- + High Resistance & Ergonomic Design
- + Live Streaming Video
- + Fitted for Digital Battlefield
- + Low Power Consumption
- + Built-in Photo & Video recorder
- + Target Live Positioning

9h

NEW



EURENCO

The European leader in Energetic Materials

EURENCO was created in 2004 from the merger between SNPE “Explosives & Propellants” and NEXPLO. EURENCO inherited from these companies a presence in several European countries and a high level of know-how in the field of energetic materials.

As the European leader in military explosives, propellants, and fuel additives, EURENCO is a key player in the defense sector serving the sovereignty of France and Europe.

With a headquarter based in Sorgues, EURENCO operates 4 modern production plants in France (Bergerac, Sorgues), Belgium (Clermont) and Sweden (Karlskoga).

Recognized as a worldwide reference in the field of cast cure Plastic Bonded eXplosives (Cast PBX), EURENCO provides Special Forces, Combat Engineers Regiments and EOD Units, with a complete range of plastic explosives for all types of demolition, cutting, breaching and demilitarization operations. On demand, our products can be tailored to meet specific requests.

Based on cast PBX technology and RDX, our main products for Special Forces include:

- **HEXOMAX®**, our bulk plastic explosive presented in blocks (250 or 500g), provides high detonation performance, shows no residues or exudation and exhibits unrivalled malleability in comparison with other compositions, even at low temperatures and extended shelf life.
- **HEXOSHEET®**, our sheet explosive, provides high detonation performance and exhibits extremely good flexibility with no cracking even at low bending radius and extended shelf life.

Our products are all compliant with the new international requirements on the marking of plastic explosives (Montreal Convention) and contain a tagging agent.

Discover our complete range of product on www.eurenco.com



Benjamin GAUTIER | Group Communication Manager

+33 (0)6 77 56 92 09

b.gautier@eurenco.com

www.eurenco.com

123 allée de Brantes | 84700 SORGUES | FR



EXAIL

An industrial partner for your land and air operations in critical environments.

Exail is a leading high-tech industrial company specializing in cutting-edge robotics, maritime, navigation, aerospace and photonics technologies, formed by ECA Group and iXblue joining forces in 2022.

Exail delivers unrivalled performance, reliability and safety to its defense clients operating in severe environments, helping them to make a disruptive impact on the land and air battlefields.

Air-land systems for multi-faceted threats

Exail develops various combat-proven robotic systems such as Command and Control systems, Teleoperation Systems for large vehicles, Unmanned Ground Vehicles that operate in hazardous and hard-to-reach areas to overcome EOD or CBRN threats. Designed for intelligence, surveillance, target acquisition and recognition missions or for last mile logistics, its range of Unmanned Aerial Systems (UAS) can carry 15 kg payload and have an unrivalled capability in extreme weather conditions. These systems are in service in many forces worldwide and their robustness enables quick intervention from a secure area.

Undisrupted Navigation and Pointing for Land Operations

Based on Fiber-Optic Gyroscope (FOG) technology, Exail Advans Series Inertial Navigation Systems (INS) are designed to provide highly accurate positioning and pointing. North-seeking even in GNSS-denied environments, they cover the needs of the full range of land applications from tactical navigation to high-grade artillery systems. Very compact and adaptable to any communication protocol, they are developed from the same architecture, making them easy to integrate and operate.



Thomas DURAND | Head of sales Air & Land systems

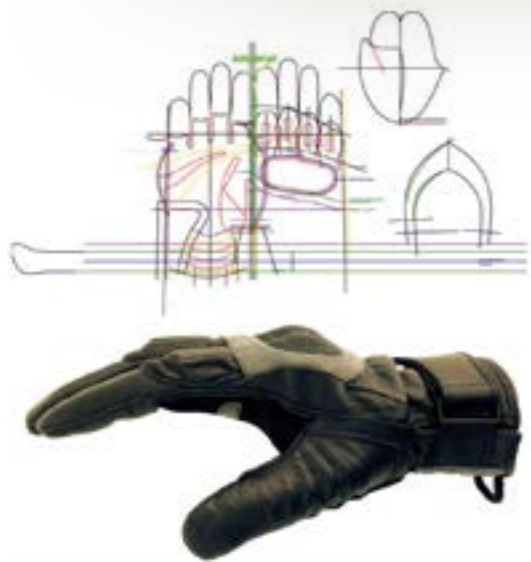
+33 (0)6 89 86 87 77

contact@exail.com

www.exail.com

34 rue de la Croix de Fer | 78105 SAINT-GERMAIN-EN-LAYE | FR





GEORGES MORAND / GM-TECH

French Glove Maker since 1946.

Georges Morand Company was founded in 1946 by Georges MORAND and his wife. It is now run by their grandchildren.

The company is located in Saint-Junien, France, and has always worked for fashion and defence.

Georges Morand, under its GM-TECH brand, specializes in fitted tactile gloves, which protect the hands of their users without hindering their tactile sense and operational capabilities.

The company has registered two patents in 2021 for fast-rope gloves co-developed with the French Special Forces and tactile pilot gloves as well as other armies and police forces around the World.

Fast-rope gloves allow fast roping and are also usable for the mission, without having to change gloves : they are tactile and thin enough to avoid bringing a second pair of gloves : saving weight and efficiency.

Georges Morand equips French Air Force pilots since decades.

GM-TECH has developed discreet tactile anti-cutting gloves that look like fashion gloves for VIP protection missions.

These very flexible and thin gloves allow palpation, they can be confused with gloves intended for hygiene, but they are non-flammable, anti-abrasion and anti-cut level 5 according to the standard ISO EN 388.

GM-TECH can also provide all types of ceremonial gloves, in leather or textiles, as well as balaclavas.

👤 Frédéric MORAND | CEO

☎ +33 (0)5 55 02 77 77

✉ f.morand@georges-morand.fr

🌐 www.gmtech.gants.fr/en

📍 1-3, chemin du Goth | PO Box 18 | 87200 SAINT-JUNIEN | FR



GLIMPS

eXtended Malware Analysis Platform.

The first next-generation analysis platform that automates your investigations to respond effectively to the most sophisticated threats.

Inspired by the human brain, GLIMPS' unique and sovereign technology is a French reference for the detection and characterization of cyber-attacks by code conceptualization.

Used in the GLIMPS Malware product, it offers a true turnkey eXtended Malware Analysis Platform that meets the growing need for automatic detection and blocking of threats and threat variants. It provides a high level of detail on the identified malicious elements.

Connected to the customer's existing security solutions (EDR, SIEM, SOAR email...), the platform ensures that no threat is missed thanks to the combination of the best static and dynamic analysis and extraction modules. The eXtended Malware Analysis Platform provides rich and accurate threat context and supports file visualization, Yara rules, data export and integrations with third-party tools. With an average response time of less than 5 seconds, incident detection and qualification time is reduced.

Our GLIMPS Malware solution is today very present in the sectors of Public, Defense, Healthcare, Industry, Energy, Banking and Insurance. It answers many use cases: detection and removal of doubt (rate of non-detection reduction and characterization), advanced protection of all your files (files scanning), Threat Hunting (compromised perimeter identification), deep investigations, incident response...



👤 Bruno LECLERC | Directeur commercial

☎ +33 (0)2 44 84 78 44

✉ contact@glimps.re

🌐 www.glimps.fr

📍 1137A av. des Champs Blancs | 35510 CESSON-SÉVIGNÉ | FR





HIGH INFRARED SYSTEMS

SPYNEL™ thermal detection radar for 360-degree situational awareness.

The award-winning SPYNEL solution captures in real-time high precision infrared panoramic images. It ensures a 24/7 surveillance with automatic intrusion detection/tracking & classification capabilities.

SPYNEL ensures high security level against any type of threats and also strategic information during special operations. Used by Special Forces worldwide, the SPYNEL-M is an undetectable high-resolution panoramic thermal camera, acting as an infrared radar. The solution can be used in defensive mode to proactively detects any approaching threats but also in offensive mode to precisely mark out the operations area including RHIBs, cars, low altitude air targets, UAVs, creeping men... SPYNEL-M is particularly recommended for its quick deployment capabilities, especially during mobile operations requiring frequent and fast movements: convoy stop, supply plot or improvised camp... Placed upstream of the area to be secured, it prevents from potential attacks. Entirely passive, it enables multiple threat detection in complete discretion. Alerts are displayed on a rugged laptop (wireless link). The low bandwidth allows multiple access to the camera remote control centers.

SPYNEL-M performances

- 24/7 early human intrusion
- Over 1.5 km-diameter area at 360 degrees
- Easy to carry (12x20 cm, 1.8 kg)
- Long-lasting battery (several days autonomy).

Enhanced threats detection and operator protection with artificial intelligence

GALA, the new artificial intelligence processing feature, deeply improves the detection effectiveness (automatic classification) and streamlines surveillance operations:

- Patterns recognition (maritime, land & air surveillance)
- Automatic classification
- Long-distance efficiency
- Advanced & pro-active detection, tracking & classification.

About HGH: Since 1982, HGH designs, develops, assembles and sells optronics systems for civil, defense and security applications. HGH also provides a wide range of defence and security solutions.



Édouard CAMPANA | Defence & Security Sales Manager

+33 (0)1 69 35 46 17

hgh[@]hgh-infrared.com

hgh-infrared.com

10 rue Maryse Bastié | 91430 IGNY | FR



IMPACT

Tactical operations management software.

Impact is the publisher of the Delta Suite, a defense and security oriented software suite that increases the potential of the different resources used in an operation. It enables critical decisions to be made by creating a fusion of multi-source data for a Common Operating Picture in real time.

Originally dedicated to the C2 and field components of the special forces, Delta Suite is intended for tactical groups (SOF/land/air/sea/homeland security/civil security). Designed with ergonomics in mind for use in severe conditions, Delta Suite can be operated on Windows (C2, operator) or Android (operator), with display modes differentiated by user type:

- Cartographic and advanced navigation tools: geo-referencing on 2D or 3D maps, management of raster, altimetric and vector data layers, geofencing, intervisibility
- Management of multi-sensor data from telemeters (Vector 21, 4, 4Nite, Moskito, PLRF25C, Jim Compact, Moskito Ti), BFT (Silex, Radios, P3TS, etc.) with ageing management, management of civil and military GNSS, GEONYX (Safran) and Advans Ursa (Ixblue) inertial units, etc.
- Management of High/low speed communication means (Wifi/Eth, LTE, LOS/BLOS, GoTenna, PRC, Motorola, UHF, VHF, etc.)
- Multi protocols (XMPP, MATRIX, VMF, CoT, etc.) allowing the exchange of tactical situation vector data or tactical Chat
- Augmented video and Full Motion Video (FMV) by Wescam MX series & Euroflir 410 (Safran)
- Specific fonctionnalités (DACAS/JFIRE, State action at sea, etc.)

On Android, you will find mapping tools, sensors management and also communication and exchange protocols.

Stéphane JUIGNÉ | CEO

+33 (0)2 38 69 80 22

stephane.juigne@sas-impact.fr

https://sas-impact.fr

1 avenue du Champ de Mars | 45074 ORLÉANS | FR





#MOBILITY #ICTS and COMMAND #INTELLIGENCE

EDNA 260 M - 4 axis gyro-stabilized gimbal

Sensors

- HD_{EO} 2000 x30
- MWIR 640x480 cooled Zoom x15, 25 fps
- LRF
- Laser pointer

Embedded video processing

- 3 axis electronic stabilization
- Mobile Object Detection and tracking
- Target Identification
- Automatic scanning area
- Geo-referencing and Geo-target

AI object classification

- Embedded object classification

4 axis stabilization system

MIL-STD-810 G

- Maritime environment

STANAG Compliances

- 4609, Motion Imagery format
- 4546, Control/Command
- 7023, Primary Image
- 4545, Secondary Image

Other features

- 260 mm - 80 in
- 8 Kg - 18 lbs.
- ITAR-Free

Air-Ground Transmission

Ground Station APGS

Transmission Specifications

- Frequency band: 1,4GHz
- Bit rate up to 5 Mbit/s
- Distance up to 50km

Antennas

- On board : Omni
- Ground : Omni or Directives with tracking

Realtime video processing

- Video and map sync.
- Super Resolution EO/IR
- EO/IR Fusion
- AIS synchronization
- STANAG 4609 video streaming

Gimbal Command/Control

INPIXAL

Video processing and optronic solutions.

INPIXAL develops real-time embedded video processing solutions and optronic systems for defense and security. INPIXAL provides algorithms for stabilization, image quality improvement, moving object detection, intrusion detection, counting and object identification using AI.

OPTRONIC GIMBALS

INPIXAL has a range of compact gyro-stabilized bi-spectral turrets for long range observation. They allow automatic target detection and tracking by day and night. Their weight and volume are suitable for fixed, rotating or multi-rotor mini-UAVs. They are also used on larger UAVs, aircraft, aerostats, ULM, robot, boat...

The range goes from the DINA 100 to the EDNA 260 through the ASIO 155 and OSEA.

New in 2023: EDNA 260 and OSEA

EDNA 260 is the latest SWAP-C equipment designed by INPIXAL: 10" optronic gimbal, 8 Kg, 4 axis stabilization with embedded video processing algorithms and AI object recognition, at the best cost.

The EDNA 260 is fully equipped with:

- Full HD EO with x 30 zoom
- 640 x 512 cooled MWIR with x15 zoom
- Laser Range Finder
- Laser Pointer

The gimbal is also:

- STANAG compliant (4609, 4685)
- IP 56 and MIL-STD 810
- ITAR Free

The OSEA 260 gimbal is the EDNA 260 maritime version for boat and USV.

AI and Video processing:

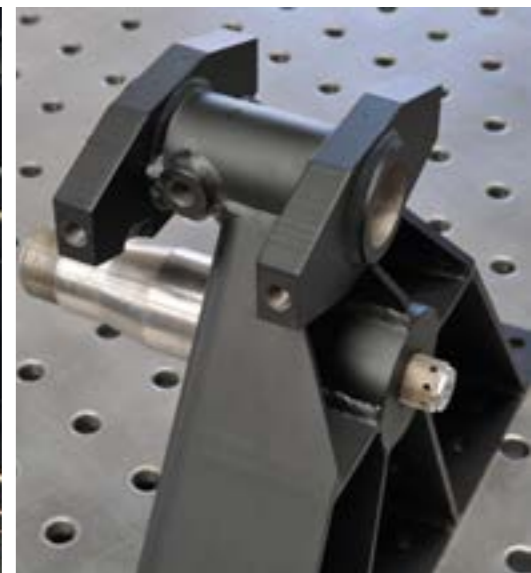
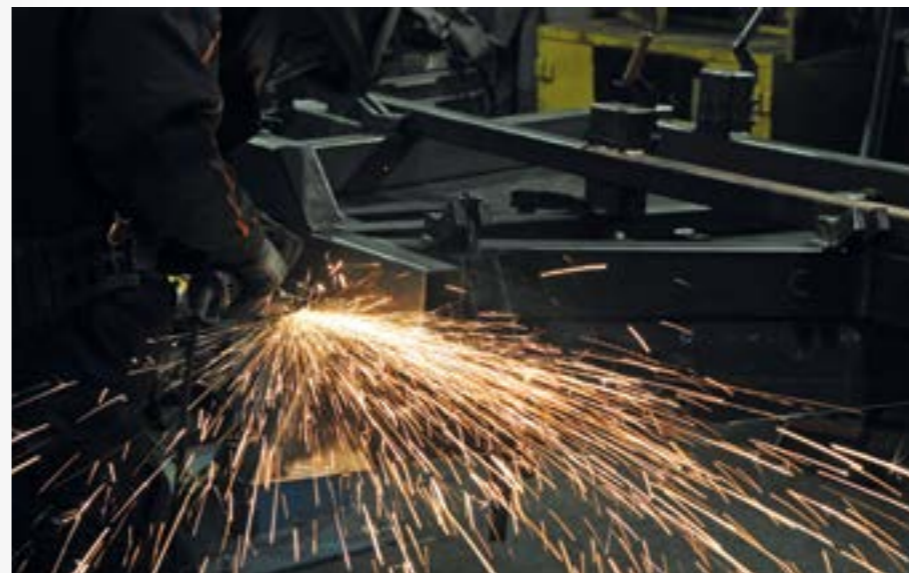
The two gimbals have embedded video and AI processing capabilities:

- Quality enhancement
- Mobile Object Detection and tracking
- Geo Tracking
- Video tracking
- Object detection and classifications

INPIXAL provide a complete video chain including optronic gimbals, INS/GPS, Air-ground transmission, and Control station.



#MOBILITY #ACTION



JOGAM GROUP

Specialized in the design and/or production of specific equipment and fittings.

A Reference partner in machining and mechanically welded boiler making.

JOGAM group offers, with its various specialized entities (AMV, COAERO, CO-NORM, JOGAM COMPOSANTS, JOGAM SET), a panel of complementary know-how, making it possible to ensure the production of primary parts, sub-assemblies, tools and test benches.

Supplier of Turret-type assemblies, vehicle chassis, openings, - original equipment or support - the groupe is a long-standing partner of the Special Forces.

If it's possible to support our customers in design, production or retro-engineering, it is also thanks to the latest generation, robotic means of production and a dedicated organization, especially for speedshop needs.

Our experience of armored land vehicles and fittings allows us to support you in your projects and offers you our services in machining, boiler making, ballistic protection, mechanical welding and specific adaptations.

With an on-site Design Office, the Jogam SET entity, with its historical know-how as a chassis and vehicle adaptation producer, meets turnkey needs based on your specifications. Jogam SET differs from traditional production sites, thanks to the integration of the entire value chain on site : study, sheet metal work, surface treatment, painting and assembly.

We can be your reliant partner on confidential and complex subjects, on small or medium series.

With its CIR and AFC accreditations (Authorization to manufacture and trade in war materials), Jogam offers its skills on diversified markets, requiring reliability and confidentiality.



Christophe FROMENTOUX | Directeur commercial et marketing

+33 (0)6 70 44 81 18

christophe.fromentoux@inpixal.com

www.inpixal.com/en/

6B rue du Pâtis Tatelin | 35700 RENNES | FR



Valérie CHEVALIER | Directrice Commerciale Groupe

+33 (0)6 74 67 34 80

valerie.chevalier@jogam.fr

www.jogam.fr

2 rue de Boisricheux | 28130 PIERRES | FR





MOBILITY # ICTS and COMMAND # INTELLIGENCE



KUB CLEANER

Protect you from Cyber Threats Related to USB Media.

KUB is the French expert in antivirus station solutions for all USB removable devices.

Our main customers are governments, defence industries, energy and transport: KUB is designed for critical environments, the boxes are hardened, as well as the OS and software.

Kub Cleaner aims to address this issue by allowing the use of USB sticks in one's environment, while reducing the risk of malware infection as much as possible.

Available in 4 form-factors:

KUB Mobile designed for mobility and extreme conditions: IP65, MIL-STD-810H; MIL-STD- 461G x

KUB Satellite deployed on ships, offshore platforms

KUB Console deployed in offices and meeting rooms

KUB Totem for public areas

The solution, online or offline, includes more than 100 features, and can be centrally managed for easy administration and automatic updates.

USB media are a well identified compromise vector. However, there are many cases where their use is necessary, if only to apply updates to certain systems.

Simple concept, the user connects his USB media to a KUB and it is automatically examined. If malware is detected a cleanup can be requested. As an option, an agent residing on the workstations takes care of the control of the keys by reading an encrypted certificate deposited by Kub Cleaner, and prevents access to those that have been identified as infected.

Solution also prevents the connection of the USB key - even if cleaned - to a machine in the environment: its healthy content can be transferred to an internal network share.

Laurent ABLY | Executive Director

+33 (0)1 74 90 39 00

laurent.ably@kub-cleaner.com

www.kub-cleaner.com

2 rue du 19 mars 1962 | 92110 CLICHY | FR



MOBILITY # ACTION # INTELLIGENCE



LACROIX - DEFENSE

Vehicles soft-kill protection & Training solutions.

French Expert in countermeasure systems and effects for all type of vehicles & Training pyrotechnic products.

S-KAPSTM: Soft-kill protection system for vehicles

Since 1990, Lacroix defense develops broadband masking ammunition for various combats vehicles, from Special Forces light vehicles to APS or MBT all around the world. In order to optimize the protection of vehicles against the new threats in modern conflicts, Lacroix has imagined a global soft-kill protection system **S-KAPSTM** which includes:

Threats detection; Environmental awareness; Support for analysis and reaction decision; Broadband masking & decoys effects & Communication & optimization protection.

S-KAPSTM is adaptable to the vehicle and the mission, incremental (upgradable according to needs and technologies) and combat proven in many high intensity conflict or peace keeping operations.

All protection effects are realized thanks to the range of Galix ammunition: **Galix 13 F2 & Galix 23** - long & medium duration broadband masking ammunition (from UV to Far IR, mm); **Galix 46**, less lethal ammunition, dedicated to disengagement against crowd.

Training solutions "Train as you fight":

Lacroix offers solution to covers all training cycles in any combat environment: Outdoor, indoor, CTC Urban area. Designed for realistic training, deploying stress, realistic visual effects to empower your preparation. Lacroix proposes Pyrotechnics simulators (IED) and or Pyrotechnics kit tailor-made and adaptable animation services with a large panel of effects (missile, burst shooting, mortar, artillery, breaching, impact, explosion, cannon shot, salvo cannon fire).

Jean Luc PAQUIÉ | Training Account Manager

Éric GALVANI | Soft kill protection Manager

+33 (0)6 09 15 08 68 | +33 (0)6 24 42 59 95

jean-luc.paquie@etienne-lacroix.com | eric.galvani@etienne-lacroix.com

www.etienne-lacroix.com

Route de Gaudies | 09270 MAZÈRES | FR





MOBILITY



LOSBERGER DE BOER RDS

Rapid Deployment Systems.

European leader in the supply of modular tents and tensile structures.

As a partner of the armed forces for more than 40 years, Losberger de Boer RDS supports the Special Forces of NATO and friendly countries throughout their engagements. Our solutions are designed to improve the protection of personnel and equipment in crisis situations and in ultra-mobility. Our tents and hangars are quickly and easily deployable. They allow operational discretion in all conditions; infrared undetectability of the tents, opacity treatment to remain discreet in total darkness in order to obtain a black-out mode.

- For all uses: crisis and attack management, protection of sensitive sites, setting up command posts, securing public events, securing military and civilian personnel, border protection, secure communications.
- In all army bases: metropolitan France, overseas, external operations.
- In all climatic conditions: extreme temperatures, cyclones, sand, and snowstorms.

We support the Special Forces so that they can best respond to the needs encountered on their operations. By combining discretion, rusticity and protection, our solutions enable operators to intervene anywhere and at any time, with ultra-deployable living bases.



Gilles DE PAILLERETS | Managing Director

+33 (0)1 46 72 42 69

contact.rds@losbergerdeboer.com

www.losbergerdeboer.com/uk/about-us/bachmann-rds/

14 rue des Reculettes | 75013 PARIS | FR



ACTION

INTELLIGENCE



MBDA

MBDA is a unique and successful model of a European integrated defence company at the core of the sovereignty of our nations.

AKERON MP is the only 5th generation combat proven missile, operationally proven in extreme climates (desert and sub-arctic conditions). The system's design includes the growth potential necessary for future modern land combat systems.

- A multi-role missile providing maximum flexibility to the warfighter: Fire & Forget as well as Man-in-the-Loop capabilities, even at maximum range
- Man-in-the-Loop allowing retargeting, aim point selection and mission abort in two firing modes: Lock-on-Before-Launch (LOBL) / Lock-on-After-Launch (LOAL)

Main characteristics

Munition:

- Weight: 15 kg • Length: 1.3 m in tactical canister
- Range: 4,000 m + all modes, all conditions
- Data link: Real time (fibre optic)
- One multi-purpose munition with a selectable effects tandem warhead capable of defeating more than 1,000mm of RHA after ERA penetration
- Dual-band seeker (uncooled IR and TV channel)
- Inertial navigation • 2 selectable trajectories + 2 selectable warhead modes

Interactive firing post:

- Weight (incl. tripod and battery): 11 kg
- Fully digitised ISTAR node capability: latest generation IR and day camera / laser range finder, GPS and digital magnetic compass
- Intuitive man-machine interface • Low power consumption

AKERON MP digital system

- Highly automated system for minimal operator workload
- Networked Enabled Warfare (NEW) mode

AKERON MP Integration to combat vehicles

- Modular architecture for scalable vehicle integration • Compatible with armoured vehicles, remote weapon stations, direct firing post adaptation



Francis BORDACHAR | Export army adviser

+33 (0)1 71 54 16 91

francis.bordachar@mbda-systems.com

www.mbda-systems.com

1 avenue Réaumur | 92358 LE PLESSIS-ROBINSON Cedex | FR





ICTS and COMMAND # ACTION # INTELLIGENCE



Command and control center against UAVs



Mobile jamming device NEROD RF

MC2 TECHNOLOGIES

High-technology solutions for defense and security sectors.

French specialist in electronic countermeasures and hidden object detection.

For over 18 years, french company MC2 Technologies has been specialising in development of microwave components. Issued from a research laboratory of Lille University, the company is now a key player on high-technology security market through its expertise in electronic countermeasures, hidden object detection and very high speed secure telecommunications.

MC2 Technologies offers a complete solution for anti-drone warfare (C-UAV), from detection, localization to neutralization, a new smart system to fight against radio-controlled improvised explosive devices (RC-IEDs) called SPART and a transportable control system SACOP, integrating an intelligent detection camera MM-Imager, which allows a smooth control of moving crowds and is part of the solutions labelled for the security of the 2024 Olympic and Paralympic Games.

MC2 Technologies' mission is to ensure the safety of individuals and armed forces through reliable, easily deployable and cost-effective devices.

With its combat proven solutions, MC2 Technologies benefits from a solid portfolio. Recently, mobile neutralisation systems NEROD RF and NEROD F5, its predecessor, have been certified as «As Used by the French Armed Forces» (UAF).

MC2 Technologies' products are entirely designed and manufactured in France and can be customized to the end users' needs. In 2021, 80% of the company's turnover has been achieved through exports.



NEROD RF and MATIA Radar integration on Titus (Nexter)



SPART, intelligent device against RCIEDs



Hidden objects detection MM-Imager

Yves DEPIT | Commercial Director

+33 (0)3 20 04 55 67

commercial@mc2-technologies.com

www.mc2-technologies.com/en

1 rue Héraclès | 59493 VILLENEUVE D'ASCQ | FR



MOBILITY # ACTION # INTELLIGENCE



METRAVIB DEFENCE

Specialized in equipment for Force Protection.

Supplier of acoustic gunshot detectors for an enhanced Situational Awareness and for a greater protection of the vehicles, dismounted soldiers and sensitive sites.

For over 30 years, Metravib Defence, subsidiary of ACOEM Group, designs and produces high-performance threat surveillance, detection and localization solutions for the defence and civil protection sectors. Our solutions are Combat Proven in more than 32 countries.

Protect the sensitive infrastructures with PILAR Ground

PILAR Ground Version, a scalable multiple array configuration is suitable to various kind of sites such as check-point & command post, border control post, military bases, etc. When networked with the Battlefield Management System (BMS) it is at the center of the infovalorization and digitalization of the battlefield. The system reports real-time the GPS coordinates of the threat on the local cartography and shares essential data outputs with fire support such as counter-battery radar, etc.

Protect the convoys with PILAR Vehicle

PILAR Vehicle Version is the essential sensor of the vetronics for an Enhanced Situational Awareness and for a Greater Force Protection; coupled with a Remote Control Weapon Station (RCWS) it offers unique slew-to-cue capabilities for neutralizing the threats; and interfaced with a drone it can act as a Combat Multiplier providing augmented vision capabilities to the dismounted soldiers.

Protect the Soldiers with PEARL

PEARL is designed for the protection of soldiers. PEARL is a small-size and light-weight mission kit to be mounted on any type of rifle such as assault rifle, a sniper rifle, a machine gun, multifunction goggles/sights or Unmanned Ground Vehicle (UGV) in order to increase the soldier's security and efficiency during its mission.

Laurent GALINDO | Directeur Commercial

+33 (0)6 73 11 37 52

sales.metravib.defence@acoem.com

www.metravib-defence.com

200 chemin des Ormeaux | 69760 LIMONEST | FR





MOBILITY # MEDICAL SUPPORT



CRT CAMSO ON HT270
New generation



AddUp patient specific devices
Print on the factory floor



TELEFLOW, Central Tyre Inflation System
for heavy and light weight vehicles



BF Goodrich tyres on French
Special Forces vehicle



MICHELIN TWEEL on Nexter robot



Aircaptif ultra-light
Faraday cage for defence

MICHELIN

Your defence mobility partner

Through its offers for military ground, aerial and naval vehicles, Michelin proposes a large product range with excellent mobility and robustness in all conditions of use.

As a worldwide off-the-road mobility actor, Michelin group provides a complete and complementary range of innovative technological products, adapted services and integrated and accessible solutions for military vehicles, considering environmental issues and based on the following axes:

- safety & mobility for troops: the **TELEFLOW** CTIS (Central Tyre Inflation System) associated to the Michelin group tyres can be integrated on any type of military vehicle in order to improve its mobility thanks to tyre pressure control
- maintenance & supply chain: **AddUp** 3D metal printing helps the army to define their 3D printing strategy with advice & simulation
- shielding & stealth: **AirCaptif** provides multifunctional shelters, command post, specific parts for helicopters or planes or tanks with robust, ultra-light, ultra-compact and technologic solutions allowing high gains in use
- medical support: with 3D metal prostheses of **AddUp** and medical shelters of **AirCaptif**
- vehicle autonomy: the **SYMBIO** hydrogen fuel cell systems for vehicles increase the autonomy of the defence units
- high technology materials: rubber and polymers **Fenner** solutions for defence usage as seals, coatings

From tyres, rubber tracks to airless solutions through CTIS, 3D metal-printing, advanced sealing technologies, hydrogen fuel cells and multipurpose shelters, Michelin works on ever more innovative solutions for defence.

👤 François-Xavier PETITEAU | Key Account Manager – Defence market France

☎ +33 (0)6 99 74 69 25

✉ francois-xavier.petiteau@michelin.com

🌐 <https://defense.michelingroup.com>

📍 M.F.P. MICHELIN
23 place des Carmes-Déchaux | 63000 CLERMONT-FERRAND | FR



MOBILITY # ICTS and COMMAND # ACTION # OMA / TRAINING



MORIN SAS

Specialized for more than 45 years in the manufacture and distribution of materials and equipment for canine units.

We have a catalog of more than 6200 products to cover all the needs of a dog unit.

From dog equipment, to dog handler equipment, through field or training equipment to hygiene products, care or vehicle fittings.

Via one of our subsidiaries we can also take care of kennels and the construction of buildings for canine personnel.

Our group is to date the only one in Europe to cover all the needs of a canine unit whether it is police, army, gendarmerie, firefighters, customs, private security, prison security...

Our expertise and know-how also allows us to offer specific training but also the sale of trained dogs.

Our teams of trainers all come from police, military or special forces units.

We have real expertise in the training, training and supply of equipment for assault dogs and detection dogs (narcotics, explosives...).

Choosing MORIN is above all trusting a team of professionals from the canine world, we have been and are users of our products, that's what makes the difference.

Like thousands of customers across more than 20 countries, trust us.

Our products are available either directly from our company or via our international distribution network.



👤 Matthieu MORIN | CEO

☎ +33 (0)1 69 01 74 20 | Fax: +33 (0)1 69 80 76 87

✉ Direction: matthieu@morinfrance.com | Technical support: info@morinfrance.com
Customer service: contact@morinfrance.com

🌐 www.morinfrance.com
www.sokksk9international.com | www.acsdk9.com | www.k9vision.fr

📍 23 bis rue des Bourguignons | 91310 MONTLHERY | FR



Morin
FABRICANT DISTRIBUTEUR
www.morinfrance.com



ACTION



MP-SEC FRANCE

Provider of specialised Military & Law Enforcement equipment.

At MP-SEC France, our customers' needs are our first priority. Our experienced sales team is able to advise, supply and train you on state-of-the-art defence clothing & equipment.

Our team of staff is composed of 50 personnel, many of whom poses a wide range of qualifications and specialties thanks to long military careers in elite units and special forces.

MP-SEC France is:

- Expert advice that always puts listening to your needs as the first and upmost importance.
- 3 warehouses of 350, 1000 and 1500m² near Toulouse, approved for the storage of weapons of categories A1, A2, B, C and D.
- 3 e-commerce websites for individuals and professional procurement.
- 2 physical stores to view and test the equipment adapted to your needs with the help of our technical advisors.
- Fast processing of your requests and orders with extremely short delivery times.
- 1 after-sales service technical workshop.

We rely on the expertise of major international brands with whom we have long-standing partnerships: 5.11, Arktis, CamelBak, Magpul, Arc'teryx, SureFire, LMT Defense, ASP etc We are the specialist interface between your operational needs and the production facility. Our team of 10 sales representatives, with a wealth of field experience, is responsive to your requests. We can advise and present you with off-the-shelf equipment or develop bespoke products to meet your exact requirements. Within the company, a "Tender" department is dedicated to the preparation of bid documents for all types of tender processes.

Whilst keeping our main focus on the French & Belgium markets, MP-SEC France is now expanding its horizons abroad and has secured several government supply contracts in Africa.

Jess PLAITER | CEO

+33 (0)5 61 50 09 04

info@mp-sec.fr

www.mp-sec.fr

Voie Hélios | Z.I. Lavigne | 31190 AUTERIVE | FR



MP-SEC
France



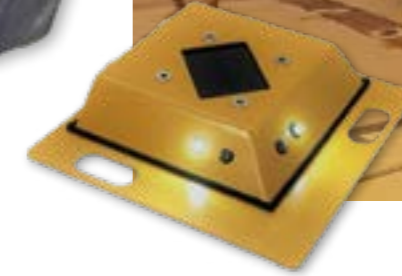
MOBILITY



ACTION



OMA / TRAINING



MUSTHANE

Survivability, mobility and agility in conflict zones.

Musthane has a significant and successful experience in breakthrough innovations, giving the special forces the necessary equipment to ensure the success of their missions.

Our engineering department skills are based on 2 core expertises :

- Design and manufacturing of composite and elastomer made products
- Design and manufacturing of light weight and compact mobility and forward area operation equipment
- **Survivability** in combat zones: **Ballistic protection** for the fuel and lubricants reservoirs thanks to the lightest and most compact **self-sealing protection** ensuring survivability against calibers up to 14.5mm. An **innovative protection** for the **sidewall** of the **tires** giving a more robust solution which is easier and faster to install or to remove on the battlefield.
- **Fuel or water distribution equipment** such as: **fuel or water flexible tanks**, aviation fuel **filtration and refueling pumps**.
- **Mobility improvement**: improve your mobility thanks to our **traction mats** as well as our **innovative temporary roadway** mats which can be used on very muddy grounds and recovered for new deployments. The mats can also make the **beaching** faster during **shore to land operations**. Our mats are also used as a platform for **Forward Arming and Refueling Points** on sand, mud or snow. Our unique and new generation **night vision beacons** enhance the potentialities of our mats.

Our engineering team will configurate or design the appropriate solution in case our standard range does not meet your expectations.

Reza ROSIER | CEO

+33 (0)3 28 37 00 40

reza.rosier@musthane.com

www.musthane.com

53 rue de la République | 59780 WILLEMS | FR



Musthane



ACTION



NEXTER

French leader in land defence.

Nexter, the leading French land defense company and one of the main European players in the ammunition sector is part of the KNDS Group.

In France, Nexter is fully committed to meet the objectives of the SCORPION program: the upgraded Leclerc tank, GRIFFON and JAGUAR vehicles (with Arqus and Thales) and SERVAL. Fitted for quick deployment, SERVAL provides assault landing capabilities to airborne units. It is being developed in more than 25 variants easily switchable at battalion level.

Nexter combined the best of its experience and technology in TITUS®. From infantry transport, combat support, peace keeping operation to counter insurgency, TITUS® brings technology into the heart of the action.

In addition to this complete armored vehicles offer, Nexter possesses proven know-how in weapons and weapon-systems. The P20, the 20 mm cannon integrated on a pintle mount allows to arm light carriers such as 4x4 vehicles for direct fire support, neutralization and deterrent missions.

Its subsidiary Nexter Robotics is working for both the military and security areas, its main purpose aims at designing, developing, industrializing, producing and supporting land-based robotic platforms from 3 kg to several tons and their related mission components and modules.

The group's range of products also includes CAESAR® artillery systems, ammunitions and many equipment. Nexter's 2021 turnover amounted to €1,3 billion, including 30% devoted to customer services, from training to fleet management to support and revaluation.

Franck MARGELIDON
Military affairs, Defense industry association contact, Sponsorship

+33 (0)1 39 49 30 90

f.margelidon@nexter-group.fr

www.nexter-group.fr

13 route de la Minière | 78034 VERSAILLES Cedex | FR



GICAT

The French land defence and security industry association

FRENCH EXCELLENCE IN DEFENCE AND SECURITY

The French land and airland defence and security industries group (GICAT) was founded in 1978. We have over 380 members, including major groups, mid-caps, SMEs and, since the creation of our start-up accelerator GENERATE in 2017, 55 start-ups. Our members cover a wide range of industrial, research, service and consulting activities for national and international civilian and military components.

The French land and airland Defence and Security industry is recognised as a sector of excellence and innovation. Firmly rooted in the regions, it generates over 48,000 highly technical jobs that cannot be relocated, from blue-collar staff up to management level, all over France.

Our mission is to represent the interests of our members while pursuing four objectives:

- Organise dialogue between institutions and manufacturers in the sector
- Provide members with services in order to foster their development in France and on an international scale
- Create an environment conducive to contact between industrial players
- Promote the expertise and image of the industry

The General Delegation of GICAT is responsible for operational implementation of the strategy defined by the Board of Directors. With support from specialised committees, clusters and working groups made up of members and institutional partners, it works to enhance thinking, make recommendations, and organise the actions and services of the Group.

The international outreach of GICAT is developed through our international exhibitions, namely EUROSATORY in France and Expodefensa in Colombia organised by our subsidiary COGES Events, as well as the French Pavilions that we organise at a number of defence and/or security exhibitions overseas.



GICAT in figures:

+ 380 members, including 70% of SMEs
€8.5 billion in revenue, including 50% from exports
48,000 jobs.



ACTION # INTELLIGENCE



NSE

An inventor of Global Solutions and high value-added Electronics.

An international Mid Cap, specializing in services, design and integration of complex electronic systems and innovation.

With its recognized expertise within the French MoD as part of its defense and security activities within the in-service support, and with an innovation cell that aims to develop products for the improvement of the land forces, NSE meets the needs of special forces.

Through a relevant service offer, NSE is able to act as a single point of contact to provide equipment, spare parts, accessories and associated services. This allows more flexibility and facility to the military units for obtaining new equipment. With a dedicated website, you will be able to place your order directly from your workstation.

But also, thanks to an innovation unit that is as close as possible to the needs of soldiers, because NSE has developed a unique innovation in the world. Our product: SYLOET (laser optronic tactical training system) which projects a thermal image onto a target to allow realistic training for gunners with thermal cameras / optronics.

In addition, NSE designs and installs cockpit modification kits to make cockpits compatible with night vision binoculars and is now working on adapting this technique for vehicle cockpits, but also for tablets and smartphones



Jean-François BIR
Defense Sales Engineer, Partnership and Innovation Development Manager

+33 (0)6 75 17 20 17

jfbir@nse-groupe.com

www.nse-groupe.com

23 rue Marius Courteix | 03150 VARENNES-SUR-ALLIER | FR



ICTS and COMMAND # ACTION # INTELLIGENCE



NUANCES TECHNOLOGIES

French expert in wireless communications control providing covert battle-proven equipment.

Nuances Technologies designs lightweight and discreet electromagnetic spectrum control systems addressing the needs of forces involved in tactical operations.

The solutions developed by Nuances Technologies enable full control of wireless communications. Scalable, they benefit from a modular design and can be adapted to any type of mission. All international wireless communications standards are covered. Portable and quickly deployed on the ground, the systems can also be integrated in all types of vehicles.

Many features are offered:

- Detecting, monitoring and recording targeted communications, over a very large frequency range;
- Locating the position of transmitters on a map, automatically or manually;
- Identifying the potential targets in order to enable decision-making;
- Neutralizing communications with selective jamming;
- Securing communications over all types of territory;
- Supporting hostage recovery and other rescue and evacuation operations;
- Securing major events and sensitive sites;
- Controlling national sovereignty in the field of cellular communications...

Solutions

- RCIED active/reactive/hybrid jammers • Communications jammers
- Vehicle protection systems • Long-range cellular blocking systems
- Anti-drone solution: detection, neutralization, interception
- Mobile private communication networks

Services

- Drafting/analysis of specifications • Specific design • Integration
- Simulation • Efficiency measures • Training • Maintenance



Service Commercial

+33 (0)1 80 06 80 70

info@nuances.fr

https://nuances.fr

92 avenue de Wagram | 75017 PARIS | FR





ICTS and COMMAND



OCIS - MILESYS

Electronics engineering for secure communications in high intensity.

The reference supplier of new resilient networks deployment solutions for C2.

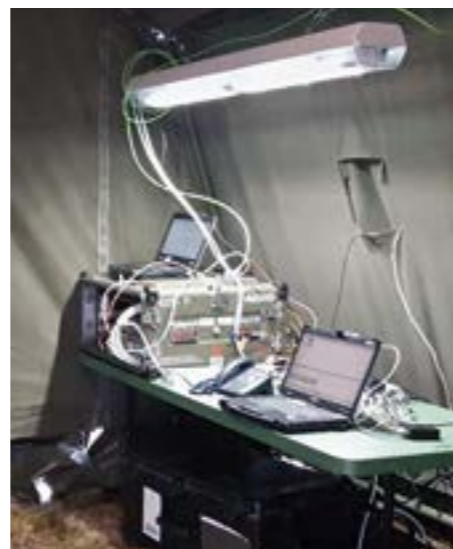
With 60 employees and a turnover of 6 million euros, the french professional electronics group OCIS brings together three industrial SMEs - DEPAEPE, MILESYS and SADITEC - with complementary businesses - TERMINALS, ENGINEERING and MANUFACTURING - and carries values of innovation, performance, reliability and responsibility.

MILESYS is a multi-specialist engineering company that capitalizes 40 years of expertise and references with key institutions and manufacturers within the defense and security industry.

Its on-board electronics and real-time software skills are particularly suited to secure communications, critical systems, control command, digitized and connected maintenance, training and complex simulation (HIL).

With its ability to integrate innovative LiFi high speed optical wireless technology to command posts networks, MILESYS brings an edge to C2 mobility in high intensity.

With a permanent desire to innovate, a proven ability to perform (retro)engineering studies or complex developments based on the most robust technologies, MILESYS will meet your challenges by providing tailor-made solutions and support to your needs and projects.



Gael BIELECKI | Defense & Security Business Development Director

+33 (0)6 85 07 66 91

gael.bielecki@ocis.fr

www.milesys.fr

Z.A. de la Clef de Saint-Pierre | 3 rue du Groupe Manouchian
78990 ÉLANCOURT | FR



ICTS and COMMAND # INTELLIGENCE



OPPSCIENCE

Knowledge is the only software you need.

The fluidity of centralised information is crucial to increase efficiency in daily operations and decision-making for peace preservation. The digital reform of security systems is now inevitable for defense and security forces worldwide. The French software editor, OPPSCIENCE, takes its part to enhance public security through Intelligence Analysis Management technologies with Big Data processing and knowledge management.

It takes time to fully understand the ever-evolving sophistication of criminal activities: attacks, trafficking, scams, obfuscations of behaviour, identity manipulation... Many layers of subjects and relationships must be accurately understood. Meanwhile, we manually gather data from several internal and external systems hoping to find relevant facts when there is no tool to fully exploit information from existing data. The risk of missing out on important information rises.

SPECTRA is a software that uses OPPSCIENCE's IAM cutting-edge technology. It fuses data of any type, size, source, and format while preserving the integrity of its information. It not only enables secured access to centralized information but also saves 50% of the time from manual operations. Unified information is now accessible from a single point without requiring any specific technical skill.

It generates real-time intelligence and uses automated features to prioritize its relevancy within the needed context (defined by the end-user), and the information is available in different visualizations (mapping, graph, timeline, relationships, 360° profile...) to make the decision-making process much more efficient.

Guillaume BRÉJAUD | COO

+33 (0)1 77 75 73 00

contact@oppscience.com | marketing@oppscience.com

<https://oppscience.com>

14 avenue Trudaine | 75009 Paris | FR



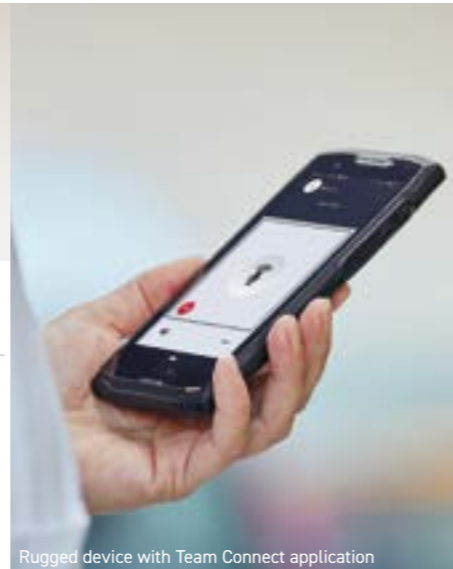
OPPSCIENCE



#MOBILITY #ICTS and COMMAND



Nokia Digital Automation Cloud for Mobile Private Network standalone



Rugged device with Team Connect application

ORANGE BUSINESS SERVICES

A range of PMR solutions for critical networks and push-to-x usages.

Mobile Private Networks is a range of 4G/5G solutions to support your critical uses and digitize your processes:

- MPN virtual: A virtual private network on Orange network with optimal coverage, guaranteed minimum bandwidth
- MPN hybrid: A hybrid private network capitalizing on Orange network with dedicated equipment to maintain your data on a specific site
- MPN standalone: A fully dedicated and autonomous private network with bespoke engineering and operating model

These networks allow you to support the uses of your teams on a single device: business apps, database access, push-to-x, ... and to support your critical IoT: sensors, crowd movement detection, ... They bring you performances and security with service commitments that match the criticality of your uses.

Orange Business Services integrates as well Team Connect application, Push-to-X solution on its national 4G/5G network with prioritization / preemption for critical communications, through three pillars:

- 4 interfaces for different profiles. They allow to find back basic uses of PMR and to go much further with video streaming, multimedia messaging, geolocation...
- Ruggedized devices suitable for demanding uses, with dedicated buttons and specific accessories.
- Prioritization and preemption on Orange network: to answer the challenges related to critical uses, based on standardized mechanisms to guaranteed communications. This brings an excellent user experience and security of calls nationwide.

As an operator / integrator, Orange Business Services ensures the end-to-end consistency of the solution between network, applications and devices.



Team on Mission: Streamwide all-in-one application for critical communications



Mobile Private Networks 4G and 5G to support all your critical use cases

Frédéric VICENDO | in charge of PMR business development

+33 (0)6 85 22 32 38

frederic.vicendo@orange.com

https://www.orange-business.com/

44 av. de la République | CS 50010 | 92326 CHATILLON Cedex | FR



#ACTION #MEDICAL SUPPORT



OUVRY

World leader in latest-generation CBRN protection and decontamination systems.

The French company Ouvry manufactures solutions developed in partnership with end users to meet their operational needs.

Our company

Ouvry has developed a wide range of products for all types of operators: soldiers, special forces, pilots, EOD teams, law enforcement, firefighters, first responders, civil security, critical infrastructures and transport services.

Our products

CBRN air permeable protective equipment:

- EPIFOS®: 24 hours protection CBRN combat vest and trousers
- TFI®: CBRN Intervention overall
- Polycombi®: Polyvalent protective suit for first-responders
- OCPU®: undergarment to be worn under regular equipment
- TARGET® gloves: air permeable CBRN gloves, great dexterity for handgun use
- O'Boots®: Light butyl over-boots

Medical transport: EVACOPS®, a new evacuation bag for contaminated victim, specially designed for the transport of contaminated victims from the field to the medical care area, while allowing emergency medical action during transport.

Decontamination:

DECPOL ABS®, wipes for immediate dry decontamination of the CWA: polyvalent, broad spectrum, no cross-contamination;
DECPOL RAD®, new wipes for radiological decontamination.

Training:

SIM KIT®, to make training sessions safer and more realistic. Kit of 3 new generation and realistic simulants, which perfectly simulate the chemical warfare agents HD, VX and GB.

Training suits: suits available in training version.



Aurore DELMER | Sales Manager

+33 (0)4 86 11 32 02

info@ouvry.com

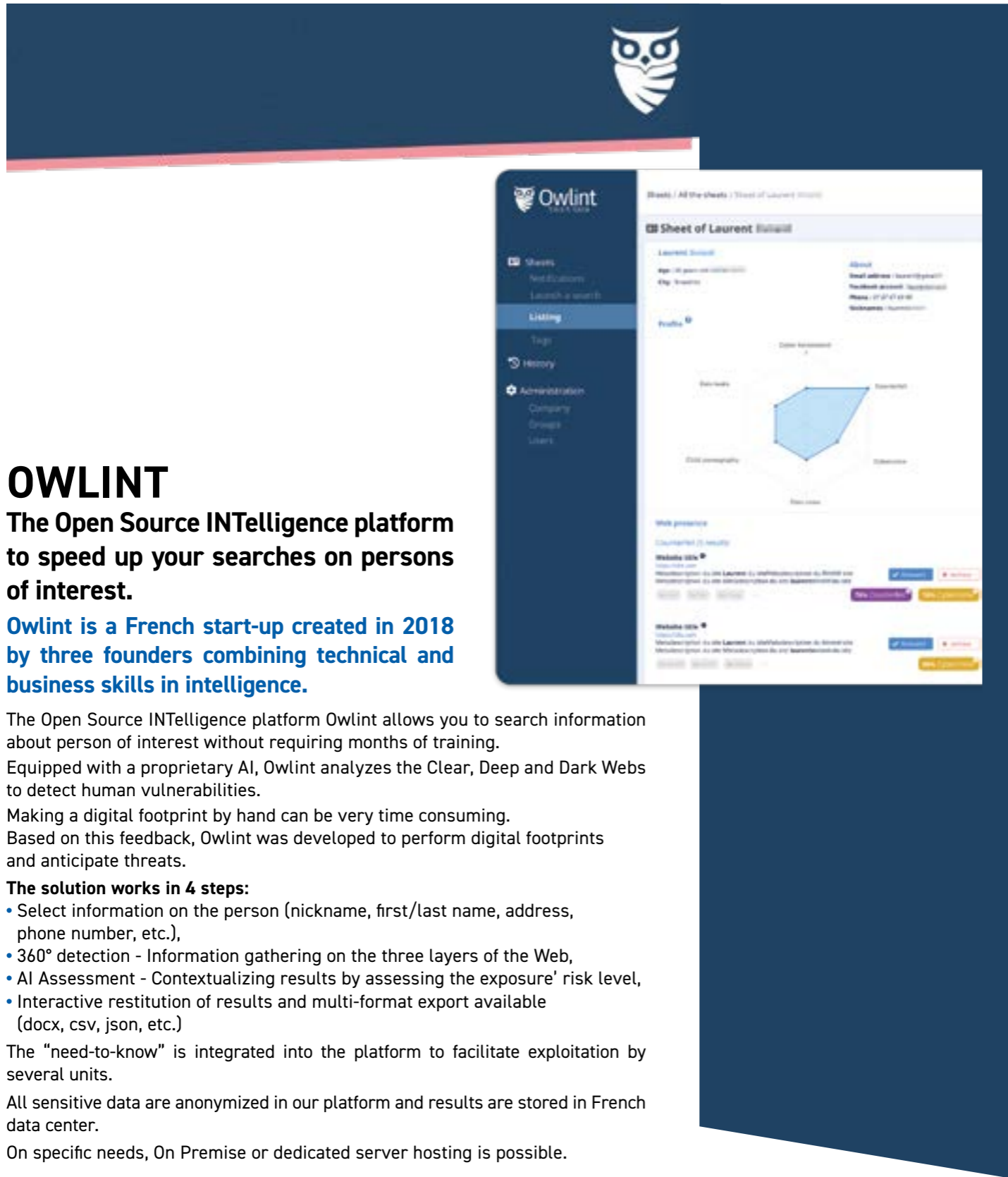
www.ouvry.com/en

24 av. Joannès Masset | Z.A. Gorge de Loup | 69009 LYON | FR





INTELLIGENCE



OWLINT

The Open Source INTelligence platform to speed up your searches on persons of interest.

Owlint is a French start-up created in 2018 by three founders combining technical and business skills in intelligence.

The Open Source INTelligence platform Owlint allows you to search information about person of interest without requiring months of training.

Equipped with a proprietary AI, Owlint analyzes the Clear, Deep and Dark Webs to detect human vulnerabilities.

Making a digital footprint by hand can be very time consuming.

Based on this feedback, Owlint was developed to perform digital footprints and anticipate threats.

The solution works in 4 steps:

- Select information on the person (nickname, first/last name, address, phone number, etc.),
- 360° detection - Information gathering on the three layers of the Web,
- AI Assessment - Contextualizing results by assessing the exposure' risk level,
- Interactive restitution of results and multi-format export available (docx, csv, json, etc.)

The "need-to-know" is integrated into the platform to facilitate exploitation by several units.

All sensitive data are anonymized in our platform and results are stored in French data center.

On specific needs, On Premise or dedicated server hosting is possible.

Marc RENIER | COO
Steven LE MANACH | Sales Director

+33 (0)6 31 58 59 88

bonjour@owlint.fr

https://owlint.fr/

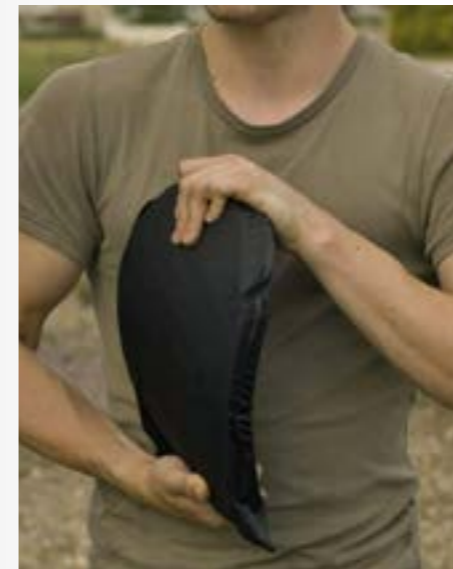
12 rue Vivienne | 75002 PARIS | FR



MOBILITY



ACTION



PANGOLIN DEFENSE

The future of ballistic protections.

Pangolin defense manufactures the best and lightest flexible ballistic protection for both handguns and assault rifles.

With a complete range of vests and plate carriers designed and tested to the highest international standards, Pangolin is committed to excellence in providing operators with protective solutions that meet their requirements.

Our engineers have designed the most flexible and lightweight protections according NIJ standards. Pangolin's protections can withstand the most difficult environmental conditions and are combat proven.

By working alongside the French MoD, local polices, and Special Forces, we have acquired the technical capabilities and experience to quickly develop and manufacture the most advanced ballistic protection systems.

We use a wide variety of ballistic materials including aramid, polyethylene, ceramic and hybrids. Using only top-quality fabrics and materials from the best manufacturers, we can provide warranty for our products for up to ten years.

We can easily adapt to any types of requirements thanks to our in-house state of the art R&D facilities and our team of engineers.

Pangolin has been quickly recognized as the most innovative European player in ballistic protection thanks to different awards during the MILIPOL & EUROSATORY exhibitions & SOFINS Special Forces shows.

Our products are used by several thousands of operators, policemen, journalists, doctors, political figures and civilians.

Benjamin DELCOURT | Président

+33 (0)1 76 35 04 04

sales@pangolin-defense.com

www.pangolin-defense.com

8B route de Palaiseul | 52600 VILOLOT | FR





MOBILITY # ACTION



PERIPHERAL

Dynamic Operator Orientation SEA AIR LAND.

PERIPHERAL builds its expertise on unconscious visual solicitations that allow operators to stay focused on their mission.

By appealing to the unconscious mechanisms of attention, the PERIPHERAL solution provides geolocated information to operators without causing cognitive overload. Operators on the move remain focused on their environment and their mission whilst taking advantage of georeferenced information.

PERIPHERAL can be integrated into existing goggles and adapted to Night Vision google. It bring value for paratroopers, submarine divers, assault groups or any operator when they cannot stop or leave their equipment to access maps or digital tools.

PERIPHERAL allows them to follow a path, to assess where other team members are located without taking their eyes off the environment or being forced to stop.

PERIPHERAL can be used alone as a personal GPS, or integrated into a C2 system to allow the TACON during action. The C2 can send new tracks to follow, 3D targets orientation, firing sectors, transmit alert messages, etc...

Rustic solution, it resists shocks, works in the most constrained environments, in mud, smoke and does not require adjustments.

Finally, PERIPHERAL can be used by firefighters in large smoky fires, law enforcement units for orientation in crowds, combat unit for mobility and assault.



Aymar DE LA METTRIE | General Manager

+33 (0)6 75 60 61 80

aymar@peripheral.fr

www.peripheral.fr

6 rue Maurice Roy | 18000 BOURGES | FR



PERIPHERAL



MOBILITY # ACTION # INTELLIGENCE



PHOTONIS

Reveal the invisible

Photonis is a world leader in the design and manufacturing of image intensifier tubes and also offers digital imaging cameras for surveillance and defense applications.

With over 85 years of experience, Photonis strives to produce innovative night vision through cutting-edge technology, to meet the needs of night vision military people in any condition. Over the years, night vision has become a key opto-electric technology in modern warfare as more and more operations take place by night.

4G+ image intensifier tube

Photonis **4G+ technology** offers an ultra-fast auto-gating and a reduced light halo for a less glaring image. The high Figure Of Merit (FOM) and extended sensitivity provide operators excellent image quality and clear contrast in low light conditions as well as an ever-increasing performance in tactical missions by faster detection of targets. With such advanced technology, Photonis enables soldiers' tactical situational awareness, agility and mobility, targeting capabilities and driving abilities during even the darkest night.

Digital imaging cameras for night and day operations

Battlefield operations evolution is driven by better situational awareness and connectivity requirements. Photonis provides several advanced low light imaging solutions to help users have the clearest vision in all lighting or environmental conditions, from full daylight to the lowest night level. **iNocturn** is a cutting-edge intensified camera extracting the best of image intensifier tube and sensitive low light camera. Providing enhanced image quality and easy to integrate into complex systems, the intensified camera iNocturn is ideal for Driver's Vision Enhancement (DVE), reconnaissance Unmanned Air Vehicles (UAVs) and gimbals on armored vehicles and platform sights.



Frédéric GUILHEM | Executive Commercial Officer Night Vision

+33 (0)5 56 16 40 50

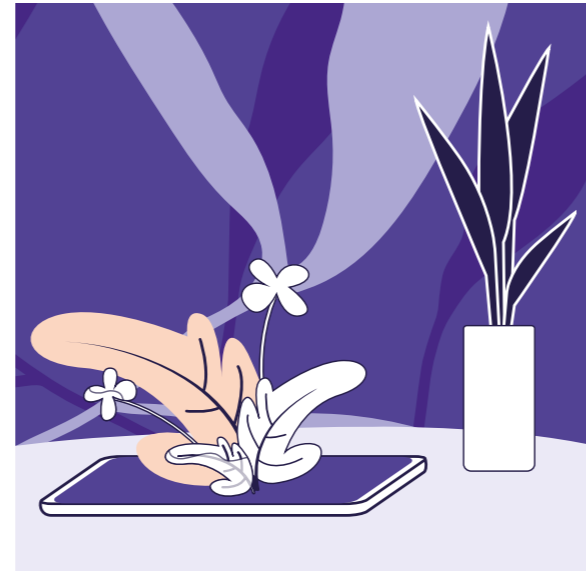
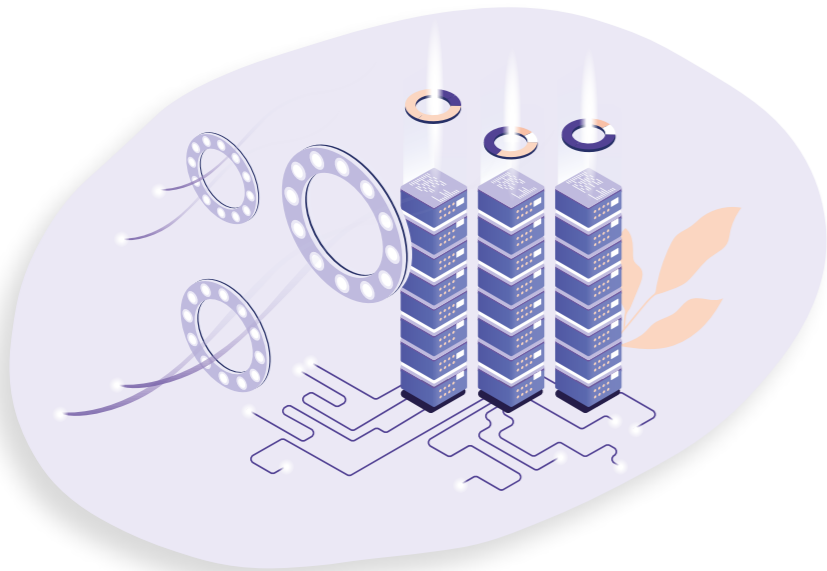
f.guilhem@photonis.com

www.photonis.com

18 avenue de Pythagore | 33700 MÉRIGNAC | FR



PHOTONIS



PIC DIGITAL

Data is the new gold, and we help you mine it.

PIC DIGITAL designs, develops and deploys tailor-made Big Data (BI) solutions based on intelligent algorithms that aggregate and organize large volumes of heterogeneous data.

We develop (beautiful, functional and inspiring) dashboards and decision-making tools that are deployed in various fields: in the defense sector to facilitate decision-support and in fleet management solutions, in the agricultural field to optimize the performance of irrigation systems (IoT) or in industry to improve productivity and overall performance. Experts in digital transformation, we design compelling digital portals that enhance data and user experience in order to boost productivity and optimize customer relationships.

Tailor-made BI applications: focused on performance and user experience, our Data Scientists, specialists in data aggregation and search engines, innovate everyday to simplify complex data situations.

Mobile 1st, user-centric: we design and develop tailor-made digital and beautifully-designed solutions: Intranet portals and fleet management for the defense sector, websites, mobile applications, immersive experiences.

IoT: we develop applications that interface with machines & sensors to trace, organize, display and interpret machine data to improve and or optimize stock management, traffic flow or irrigation.

Above and beyond our quality & technical certifications (Elasticsearch, Opquast) and CSR commitments, in all projects, PIC DIGITAL creates a positive customer (and team) experience for rapid and optimized production and ROI



Caroline PHILLIPS | CEO

+33 (0)5 59 52 60 80

consulting@pic-digital.com

<https://pic.digital>

245 allée Théodore Monod | 64210 BIDART | FR
100 rue La Fayette | 75010 PARIS | FR



PRAETORIAN TRAJAN

World Safe System - (WSS) The tracking and alerting platform for high risk environments.

We provide a single risk management solution for the public and private sectors composed by:

- Central monitoring, video surveillance
- Secure Transport of goods
- Secure transport of persons
- Tracking of people, goods and vehicles
- Secure escort transport of goods
- Close protection of people
- Business travel security

WORLD SAFE SYSTEM: Risk management platform

The structural risk reduction is our main focus as: lower the number of individuals involved, lower the risk. We have become an integrator of all these services using our risk management and tracking platform: WSS (World Safe System).

After 6 years, WSS is a mature and stable solution that is also hosted in our ultra-secure premises. WSS, which can also be accessed via a mobile app, allows the tracking of vehicles, goods and persons.

We continuously invest in R&D (mechanical protection, electronics, IT and personnel training) in order to keep-up with the evolution of the threats. We are proud to be partners, at national level, with French law enforcement and in this frame, we have the opportunity to constantly prove WSS' performance in high risk environments.



Maxime TRIQUOIRE | Sales Manager

+33 (0)1 41 77 96 73

commercial@praetoriantrajan.fr

<https://praetoriantrajan.fr>

31/33 rue des Clotais | 94360 BRY-SUR-MARNE | FR





#OMA / TRAINING



PROENGIN

The Universal chemical threat detector – AP4C+.

Detect-to-protect Special Forces

Special forces are evolving in unknown and highly stressful environments. Complexity and constant evolution of CBRN threats are pushing them to be equipped with cutting edge detection solutions protecting them from any threats that could occur on the field. Mobility and freedom of movement are also essential as these elite groups must be quickly mobilized to perform precise technical gestures, punctual action generally in high intensity operations.

Hydrogen Flame Spectrometry Technology

Proengin proprietary technology offers unique detection performances. Not only it is universal enabling detection of most CWA (including 4th generation), TICs, TIMs & PBAs in a real time manner for a full protection in unknown environments.

Instrument will detect any chemical agents whatever their state (gaseous, solid, liquid, aerosol) if they contain Phosphorus, Sulphur, Arsenic molecules or Nitrogen bonds making it a future proof investment as it does not rely on any library. Its high sensitivity and extremely fast response time allows it to provide an alarm to users in seconds even at threat concentrations lower than 500 times their lethal dose.

AP4C+ - New Universal chemical threats detector

Providing the same unrivalled detection performances than the AP4C, the new AP4C+ offers it in a more compact and lighter weight format allowing an easy integration on the forces to guarantee the best mobility and movement freedom possible.

AP4C+ can also be easily integrated on UAV/UGV 3rd party solutions making it the CBRN multi operation tool of choice for all Special Forces, CBRN specialists and law enforcement teams.



Emmanuel DELSART | Vice-Président Sales & Marketing

+33 (0)1 30 58 47 34

emmanuel.delsart@proengin.com

www.proengin.com/en

1 rue de l'Industrie | 78210 SAINT-CYR L'ÉCOLE | FR



Proengin



#MOBILITY



PRONAL

Defense & Fluids Logistics.

With their 60 years plus experience working in collaboration with few armed forces, Pronal has developed a range of solutions that are perfectly designed to meet the challenges of fuel and water logistics.

Our solutions can be rapidly deployed and implemented on-site. Ali can be easily transported: mounted on trucks, suspended by helicopter, or towed behind vehicles. These mobile solutions are suitable for transportation by a wide range of methods: by land, sea, or air.

Our solutions in Defense area are: Bolted fuel tanks (RAM)

RAM is a bolted tank that combines the advantages of conventional steel tanks and those of flexible tanks for the storage of hydrocarbons.

- For fuel tank depots, capacity 135 000 USG (500 m³),
- Transport in two ISO 20' containers,
- Simple assembly & disassembly (in 5/6 days),

The Pumping Filtration Measurement Module (MPFM)

Measuring Pumping Filtration Modules (MPFM) are key elements in downstream fuel logistics for diesel, kerosene, petrol, or avgas. When employed in a secondary or advanced fuel depot, in both civil and military contexts, this single unit can house all the devices that are required for:

- Unloading • Loading (dome or source),
- Micro-filtering particles (up to 10 microns) • Separate water from the product,
- Degassing the fuel before it is measured,
- Measuring delivered or received fuel.

Flexible fuel tanks:

Flexible fuel tanks represent the best logistical solution for storing hydrocarbons. Their modest volume when "emptied and folded" is only equal to about 1% of their nominal storage capacity meaning that they can be simply and rapidly transported, no matter where they are to be installed.



Sylvain EHRHART | President Pronal Groupe

+33 (0)6 10 84 87 19

sylvain.ehrhart@pronal.com

www.pronal.com

Z.I. Roubaix-Est | B.P.18 | 59115 LEERS | FR



pronal

flexible engineering solutions



SAMAYA

Performant individual equipment for extreme conditions.

French designer and manufacturer of equipment to sleep outside, be mobile and combat in extreme conditions.

Samaya has revolutionised the tent and backpack market by offering equipment that combines resistance and ultra-lightness. Thanks to its link with the French 27th Mountain Infantry Brigade, Samaya is now positioned as a technological and industrial player of reference for the armed forces facing mountain and extreme cold conditions.

All Samaya products are designed and tested by elite soldiers to face both environmental and operational constraints. Thanks to their lightness and robustness, they protect and isolate the soldier from external conditions (rain, snow, wind, cold), including in survival or medical emergency situations, and hide and camouflage the soldier from outside observers.

In addition to offering a complete range of tents for 1 to 10 people for uses in mountain and polar environments with a varied range of backpacks, Samaya listens to your specific needs to adapt or create the equipment you are looking for.

Through innovation and know-how, Samaya brings technical answers where no solution has been found and pursues with passion its ambition to accompany soldiers who commit themselves to accomplish their mission.



Jean-Baptiste ANGLEYS | Defence Programme Manager

+33 (0)6 75 84 01 42

jbangleys@samaya-equipment.com

www.samaya-equipment.com

5 avenue du Pré de Challes | 74940 ANNECY | FR



SERA INGÉNIERIE

Design and architecture of special vehicles.

As a mechanical engineering company, SERA Ingénierie is specialized in the design and manufacturing of special vehicles and offers a recognized expertise in the fields of defense, civil, robotics and simulation.

PHOBOS : Multi-Missions modular unmanned ground vehicle

Driven by its commitment to always identify and anticipate needs in the field of ground mobility, SERA Ingénierie has launched PHOBOS, its new Unmanned Ground Vehicle (UGV).

This remotely operated modular robotic carrier of less than two tons net weight, and with one-ton payload, has been designed to accommodate various tools and sensors: surveillance, acquisition, reconnaissance, armament, etc.

Its 4-wheel drive with reinforced suspensions can easily follow at high speed the tracks of armoured vehicles in service on any type of terrain. In addition, its diesel engine and large tank supply electrical and hydraulic power to all embedded equipment.

Engineering & simulation tools

The company's DNA is founded around the simulation, the dynamic and the behavior of vehicles, while maximizing their robustness and their autonomy. Its background in car racing has enabled SERA Ingénierie to forge an expertise in the vehicle sector, today meant to civil, industrial/agricultural or military applications (such as the SOUVIM-XP designed and manufactured by SERA Ingénierie).



Khalid CHRAIBI | Sales Manager

+33 (0)7 84 19 88 73 | +33 (0)1 69 29 89 89

commercial@sera-ingenierie.fr

https://sogclair.com/sera-ingenierie

12 avenue du Québec | 91140 VILLEBON-SUR-YVETTE | FR





SOLARMTEX

Textile technical making and camouflage solutions.

From its creation in 1993, SOLARMTEX has specialized in the design and manufacturing of specific textile products for military and defense industries.

Today, our 70 employees operate on two flexible and highly skilled production units in the center of France (Vierzon and Issoudun). SOLARMTEX integrates 100% of its operations locally, from R&D to production, our supply chain is entirely composed of European companies. Iso9001 certified, SOLARMTEX is now a well-known supplier of French Land Forces through large scale programs with its clients Nexter, Thales, Mbda.

In 2020 SOLARMTEX and SAAB BARRACUDA decided to team up to build both commercial and industrial partnerships for French territory. Since then, BARRACUDA customized camouflage solutions can be purchased and adapted through SOLARMTEX using flexible local resources in order to best fit French Special Forces requirements.

Together, we provide camouflage solutions for any operational scenario. Our systems can be adapted to fit any environment, vehicle or object, making the difference between mission failure and mission success.

As sensors are becoming more advanced the need for signature management technology is constantly growing. We provide solutions including integrated vehicle and other platform systems, nets and operator solutions for multispectral signature management and heat transfer reduction.

Textile custom made equipments for all type of vehicles: bags, cases, covers, tarps and straps (**SCORPION program**).

Producing specific textile solutions in small to medium series is what we do.

Forces as well as industrial players trust us for various projects such as producing specific carrying solutions, equipping shelters and vehicles or even using textile materials for insulation, ballistic or radio frequency shielding.



Yann ILACQUA | CEO
Alexandre EMANUEL | Sales Manager

+33 (0)2 48 71 15 36
+33 (0)6 99 34 27 24 | +33 (0)6 08 01 71 10

www.solarmtex.com

4 rue Célestin Gérard | 18100 VIERZON | FR



STARTER

Military winches and engineering.

STARTER is a french manufacturer of electric and hydraulic winches for trucks and vehicles, including armored and special vehicles.

Established in 1971, STARTER has developed a range of high level recovery winches dedicated to military applications that are used worldwide everyday.

STARTER's engineering know-how

Our design department lies in the deep knowledge of the military automotive industry. Our manufacturing know-how is based on our long experience in welding, mechanics, hydraulic and electric so that every component used in our production is mastered, proven and certified.

Services from dedicated engineers

This also includes mounting, training and after-sales, with a spare parts policy based on reliability and availability. From solution design to maintenance through mock-up and setting, our team offers full support to your project. Our dedicated engineers can work side by side with our customers anywhere around the globe.

Winch designed for military applications

Our winches are developed to be used in harsh environments and are equipped with heavy-duty protection against shock, water, dust and electromagnetic interferences. Furthermore, their simple design and compact structure make them easy to maintain and cost effective.

Our product range:

- Electric 12/24V and Hydraulic
- Front recovery winches
- Side winches
- Center-mounted/between frames winches
- Rear-cabin twin-winches
- Lifting winches
- Military engineering winches
- Surveillance balloons winches



Hugues LIBAUDIÈRE | Sales Director

+33 (0)7 88 38 07 10

hugues.libaudiere@starterwinches.fr

www.starterwinches.fr

5 avenue du Vert Galant | 95310 SAINT-OUEN L'AMÔNE | FR





MOBILITY



STÄUBLI

Connectors - Advanced connection solutions.

Stäubli develops quick connection solutions that are ideal for extreme operating conditions at sea, on land and in the air.

Fuel logistics

From the refinery to the final user, fuel transportation requires many connection points. From STANAG standards to specific dedicated profiles, Stäubli is your partner for safe and non-spill connections.

Our products for fuel logistics are mainly NATO classified.

Thanks to their high resistance to hydrocarbons, pressure and vibrations, Stäubli's quick-release couplings and refueling systems ensure safe and rapid filling for various equipments: aircrafts, UAVs, UWMs, helicopters • refueling trucks such as the French Carapace They can be fitted on motor pumps, field hoses, pump units, flexible storage tanks, etc.

Used by multiple French army corps and especially by Special Forces, our quick connectors are very appreciated for their ergonomics and reliability.

For instance, our HCB28 can be connected to different types of refueling nozzles. Crafted from high-resistance alloy, our quick-release coupling is a real asset for your operations as it can be disconnected from either side with no risk of mistakes and can be fitted with a hand wheel for easy handling. The automatic locking, once paired, provides a quick and reliable connection.

Another dedicated product, our VSU38, is a symmetrical quick-release coupling. Its spherical valve provides a direct flow of the fluid, offering an optimum flowrate/pressure drop ratio. Combined with a bridle and placed on a tank, VSU quick couplings are very easy to connect while ensuring optimal safety conditions, thanks to its lugs system and shock protection ring.

Our latest innovation, the STANAG 3756 TTX60 is designed to meet stringent requirements. TTX couplings guarantee a high flow rate, a low pressure drop ratio so that you save time on your fluid transfers and thereby increase your energy efficiency.

Stäubli's comprehensive technological heritage and expertise, we partner with our customers worldwide to provide the most efficient solutions for their applications.



David SIMONNOT | Local Business Head

+33 (0)6 18 00 40 82

d.simonnot@staubli.com

www.staubli.com

STÄUBLI RACCORD FRANCE
Parc du Moulin | 31 rue du Saule Trapu | 91882 MASSY | FR



OMA / TRAINING



STERELA

Target systems for shooting training

STERELA is a leading manufacturer of target systems for live shooting training and supplier of multiple national armed and security forces around the globe.

Over more than 30 years, STERELA people have built a strong partnership with demanding clients from the military and the police. Based on their operational experience, this expertise has helped the company developing an exhaustive set of innovative tools to help professional units leverage their shooting and combat-shooting skills.

STERELA solutions are specially designed to provide a training as close as possible to real life shooting conditions. Additionally, STERELA target systems adapt to all kinds of weather conditions and shooting environments: outdoor/ indoor shooting ranges, close quarter battle facilities, confined space, open field manoeuvre training camps.

STERELA range of solutions include:

- Stationary and Moving Target systems for light infantry weapons shootings
- Stationary and Moving armor systems for tank/anti-tank weapons shootings
- Scenarios editor software • Shooting data analysis
- Special effects accessories • Robotic targets

STERELA services:

- Consulting and project management
- Predictive, preventive and corrective maintenance
- Spare parts management
- Remote technical assistance • Training

STERELA is the official target supplier of the French Armed forces and of multiple military forces and law-enforcement agencies in Europe, Middle East, Africa and the Americas.



Teddy GODILLON | Head of Defense Department | International Sales

+33 (0)6 77 65 63 64

teddy.godillon@sterela.fr

www.sterela-defense.com

5 impasse Pédenau | 31860 PINS-JUSTARET | FR





MOBILITY



TEXELIS

Driving Mobility Innovation for Land Forces.

The experience at the service of the armed forces.

Texelis is a leader in the design and manufacture of high performance axles, drivelines and innovative mobility solutions for 4x4, 6x6 and 8x8 military vehicles.

Expertise gained over many decades working with vehicle manufacturers and military forces across the globe.

In 2018, the DGA has entrusted the development and implementation contract for Light VBMR to Nexter and Texelis. Texelis is responsible for delivering the full vehicle driveline.

This solution has been designed to deliver advanced protection, and enhanced strategic and tactical mobility.

By expanding its offer developing chassis and mobility kits for monohull vehicles Texelis is proving its know-how and technology and is positioning itself as the mobility partner of armoured vehicles.

TEXELIS is an integrated design, production and service company which has built its reputation on the very highest standards of quality and service.

The solutions offered include product and services and cover the entire product life cycle. TEXELIS leads the defence markets through continuous innovation. We deliver solutions for today's while working on new concepts that maximise hybridisation, autonomization and increased all capabilities to meet the challenges of the future.

Jean VANDEL | Managing Director Defence

+33 (0)6 83 58 06 92

jean.vandel@texelis.com

www.texelis.com

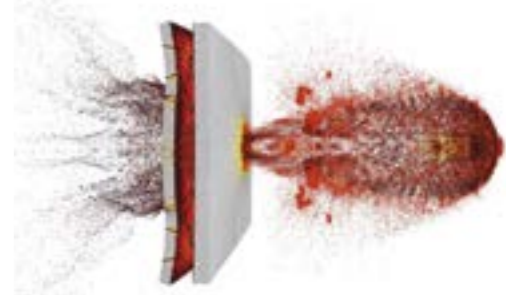
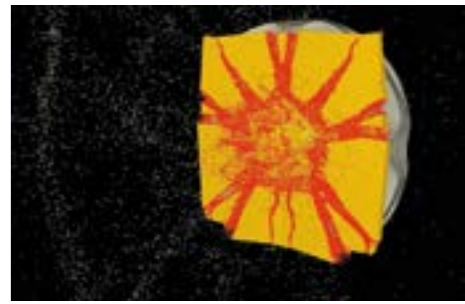
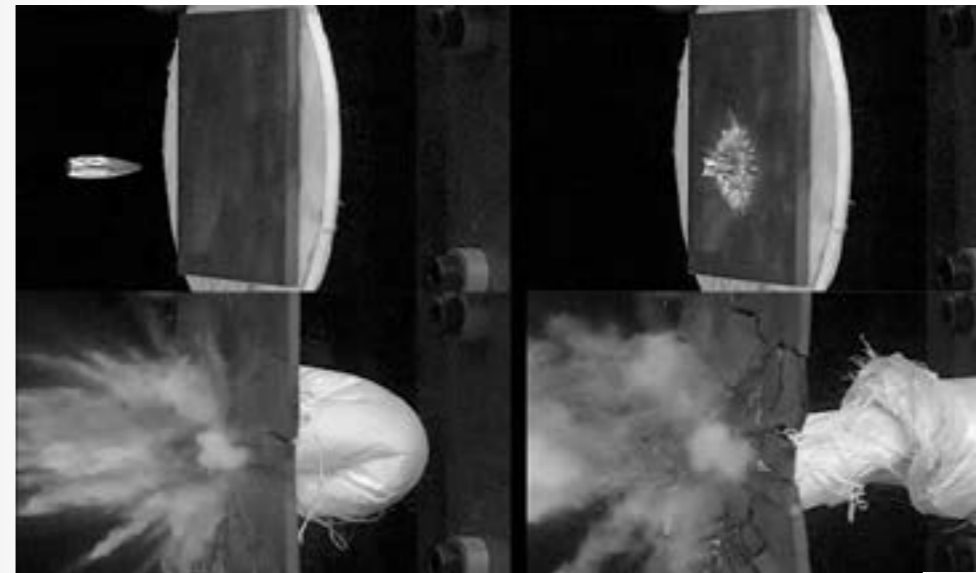
11 rue des Draperies | 69450 SAINT-CYR AU MONT D'OR | FR



TEXELIS



ACTION



THIOT INGÉNIERIE

Materials and military structures put to the test.

THIOT INGENIERIE develops terminal ballistic test facilities and provides services in shock physics to simulate the effects of weapons on targets.

Our long-standing experience in the field of armament brought our laboratory into partnership with research centers and manufacturers in the defense industry in order to study impact phenomena on military structures (Army, Air Force and Navy) and to gain a better understanding of the behavior and resistance of protective materials.

Laboratory tests

The wide range of our test facilities allows us to meet all the needs of the defense and security industry:

- Terminal ballistics tests
- Laboratory capable of covering an impact speed range between 0 and 10 km/s.
- Tests on bulletproof vests or any other armor material
- Characterization of the dynamic behavior of materials for military use
- Acceleration tests (100,000 g) on materials embedded in missiles and shells

Numerical simulation

We can predict the behavior of all kinds of materials and structures subjected to high strain rate shocks, and help you optimize their performance. THIOT INGENIERIE is thus involved in the development of digital twins of warheads to accelerate their development, thanks to its expertise in experience-calculation correlation.

We also carry out dimensioning of safety zones around pyrotechnic buildings.

Romain BOISSON | Adrien ECHALIER | Sales Department

+33 (0)5 65 38 36 07

boisson@thiot-ingenierie.com | echalier@thiot-ingenierie.com

www.thiot-ingenierie.com
www.thiot-detonics.com
www.thiot-autofrettage.com

830 Route Nationale | 46130 PUYBRUN | FR



THIOT INGENIERIE



MOBILITY # ICTS and COMMAND # ACTION # INTELLIGENCE # OMA / TRAINING



TIMELINK MICROSYSTEMS

The French Expert in Time & Frequencies.

TimeLink microsystems, a French company based in Toulouse and Brussels is the French leader in the development of complex synchronization systems where time plays a critical role.

Since 1978, we have been providing innovative systems to meet your needs for accurate timekeeping and synchronisation.

We have a wide range of products on the shelf to meet your needs for:

- Complete Time & Frequency solutions,
- Atomic clocks,
- NTP / PTP time servers,
- PC time sync cards,
- Multiprotocol displays (analog & digital),
- Defence and telemetry solutions,
- Test & Measurement Solutions,
- GNSS protection,
- Solutions for time scales and measurements,
- RF signal transport over optical fibres,
- Customised applications...

In the segments of:

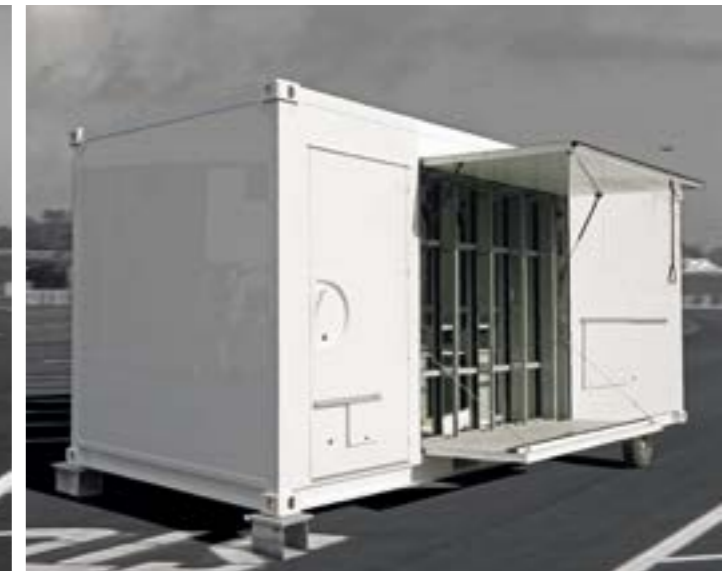
Space, Defence, Telecom, Critical Infrastructure, IT & Finance, Energy
Time related measurement instruments, Secure Networks.



Pascal VUILLERMOZ | Sales Director
 +33 (0)5 62 87 10 79 | +33 (0)6 20 77 50 55
 pv@timelinkmicro.com
 www.timelinkmicro.info
 14 rue Jean Perrin | 31100 TOULOUSE | FR



MOBILITY # ICTS and COMMAND # MEDICAL SUPPORT



TOUTENKAMION GROUP

Partner of all your projects in land mobility.

Toutenkamion Group allows its customers from Raid, GIGN, Hubert commando,... on its own or in partnership with Thales, Safran, Eca Group, Hemeria..., to have mobile and projectable devices compatible with the most severe environments.

Toutenkamion Group is the European leader for the design and manufacturing of tailor-made mobile solutions thanks to its study capacities and its mastery of technologies best adapted to mobility constraints.

Command posts: they are developed on 4x4, van, extendable or non-extendable shelter, multi-deployable semitrailer, ... to meet all use cases. Their custom-made layouts provide ergonomic, functional and secure projectable command facilities to manage the most sensitive operations (including during the transport phases).

Transport solutions for mobile resources: transportable by plane, boat, road, etc. they can be used to transport and deploy all technical resources (drones, underwater vectors, spare parts, workshops, etc.).

Evacuation solutions: based on 4x4 pick-ups, they allow access to the wounded in difficult environments to extract them from the area very quickly.

The materials used for the manufacturing of our products allow to reach different levels of EMC and ballistic protection, thus securing the conduct of operations and associated systems.

Designed and manufactured in France, our products meet the highest quality requirements, guaranteeing our customers robust and durable solutions.



Fabrice BOURDAIS | Business Development Manager
 +33 (0)2 38 95 50 59
 f.bourdais@toutenkamion-group.com
 www.toutenkamion-group.com
 901 rue du Lieutenant Thomasset | 45270 LADON | FR





MOBILITY



TRA-C INDUSTRIE

More than 60 assault systems delivered to special forces.

TRA-C industrie is an expert in turnkey systems that supports major players in the defense sector.

TRA-C industrie is an expert in turnkey solutions. We support our customers during all stages of design and deployment of their projects: from engineering to final integration.

Our industrial design office is bringing innovative solutions to the market.

Numerous projects have been developed within TRA-C industrie, for example:

TRA-C industrie developed and supplied more than 60 assault ladders for special forces worldwide. These systems can be adapted to all kind of vehicle platforms to fit customers specifications.

TRA-C industrie designs and manufactures complex drones recovery systems for naval applications.

TRA-C industrie is also an expert in armored structures and can provide any kind of solutions to protect vehicles or systems.

Our innovative designs allow us to offer our customers lighter, smarter, more communicative solutions while being less costly throughout their life cycle.

Thanks to this expertise, we support our customers in the production of armored structures, turrets, structural parts of Defense programs.



Aymeric DE MONCLIN | Directeur Général

+33 (0)4 74 63 70 40

contact@tra-c.com

www.tra-c.com

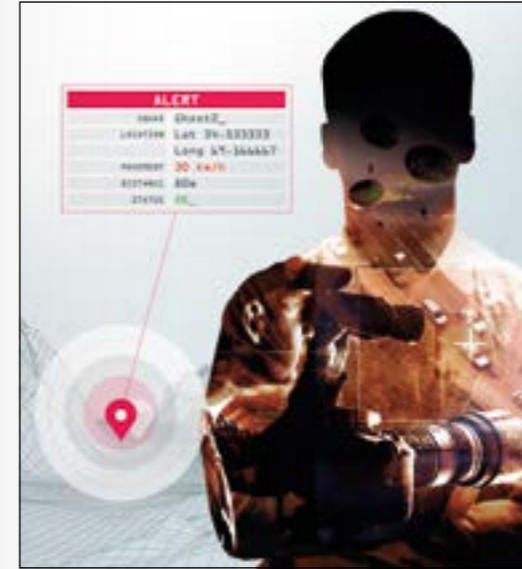
99 impasse du Savoir-Faire | 69490 VINDRY-SUR-TURDINE | FR



MOBILITY

ICTS and COMMAND

INTELLIGENCE



TRAAK

Where no one else can.

Expert in tailor-made location and physiological tracking solutions.

TRAAK is a French start-up specialised in geolocation and biometric tracking solutions for constrained environments. Our solutions are entirely developed and produced in-house and in France.

Our expertise in geolocation and communication is a combination of jamming and spoofing resistance, development of secured low-level protocols, miniaturization and integration of biometric systems. This allows us to meet all the navigation and tracking needs of Special Forces and intervention units, even the most unique ones.

Our products guarantee confidentiality and traceability thanks to our ability to anonymize them and adapt them to a completely tailor made design. We can ensure interoperability with any existing infrastructure.

Resulting from internal research and development, TRAAK also offers off-the-shelf and OEM versions of innovative blueforce tracking and non-cooperative tracking solutions that work in any environment: indoor, underground and GNSS Denied.

PIXYS - Indoor, underground and GPS denied wireless geolocation system. Considered revolutionary by many units, the Where technology allows tracking with metric precision without drift in any environment, even unknown.

TRAAK-R and **TRAAK-S**: Discreet and secure blueforce tracking and non-cooperative tracking systems with numerous options and an easy-to-use interface.

Cavalry: Intelligent fabric for impact detection and automated alerting.

Thomas DUROYON | CEO

+33 (0)7 83 13 45 30

tduroyon@traak.tech

www.traak.tech

53 avenue Berryer | 78600 MAISONS-LAFFITTE | FR





TURGIS & GAILLARD

Weapons to overcome.

Since 2011, Turgis & Gaillard has been developing systems that help special forces to win in multi-domain operations.

Tailor-made solutions

Because special forces are all about adapting to the environment, Turgis & Gaillard design office creates systems adapted to the mission. We do it quickly, we do it quietly, we do it on time.

We can integrate your latest sensors on your aircraft. We can make your cargo aircraft perform close air support missions. We can turn your utility aircraft into key assets for network centric warfare and Air Surface Integration.

C4ISR

Because C4ISR is critical to dominating the battlefield, Turgis & Gaillard provides turnkey solutions to deploy connectivity anywhere in the world.

With ODIN, we provide special forces with a simple and pragmatic way to make the different standards of multi-domain operations communicate with each other: L16, L22, LTE/4G, ROVER, SICS. In full transparency. And because you have better things to do than specify ever-changing capabilities, we operate the system for you. You focus on the mission. We take care of the networks.

MRO

Because your aircraft are precious assets, and you may need them at any time, Turgis & Gaillard provides maintenance operations. Our technical teams know your concerns. They have shared them. We maintain and repair your aircraft from our workshop in Blois, or directly in forward operating bases. We can carry out the heaviest modifications on the aircraft most used by special forces.



UNAC

Hydrostatic Vehicle Creator.

UNAC is specialist for conception and manufacturing of airdroppable vehicles. The RIDER is on duty in the French Land Forces.

The RIDER is a vehicle with a high projection capacity by air vector (air-transportable, air-droppable and helitransportable) with high intrinsic mobility and logistics consisting of a robust and compact vehicle and a large capacity trailer. It ensures the following missions:

- Lightening the fighter landed on all the zones of action, ensuring his support as close as possible to the zones of engagement on grounds previously inaccessible by vehicles,
- Self-defense of deployment areas,
- Support for the rapid deployment of limited air infiltration capability,
- Participation in a rapid field grab or military raids,
- Assistance in the rapid deployment of tactical additional support and command capabilities,
- Deployment of local logistical support and assistance to the emergency repairs,

The RIDER is a lightweight tactical and compact vehicle for the transport of materials, supplies and fighters, as close as possible to the engagement zones. The vehicle incorporates a front axle composed of a double wishbone suspension to respond to significant off-road travel and a rear train consisting of trailing arms allowing excellent takeover of mechanical stress. The RIDER, equipped with inter-wheel differentials and interlockable axle is propelled by a custom kinematic chain meeting the technical requirements of mobility and crossing. The cockpit is equipped with a protective hoop, fixed on a one-piece tubular steel welded frame. The vehicle offers a precise and secure layout of the cockpit for driver and vehicle commander. The RIDER is set with two supports for weapon and their ammunition. The trailer has a large loading platform, fold-down sides and four lashing and stowing rings.



Patrick GAILLARD | CEO

+33 (0)9 82 51 06 11

contact@tg-groupe.fr

www.turgisetgaillard.fr

21 rue Saint-Pierre | 92200 NEUILLY-SUR-SEINE | FR



Benjamin ESPANA | Defense Business Manager

+33 (0)6 29 99 05 33

benjamin.espana@unac.fr

www.unac.fr

Z.I. av. de Camargue | CS 42004 | 0310 VERGEZE | FR





MOBILITY # ACTION



UNITIVE

Worldwide leading manufacturer in the field of pyrotechnics for security and defense applications.

Etienne Lacroix group, 100% private family equity originally founded in 1848.

Unitive, subsidiaries of the family-owned group Etienne Lacroix, have been specialized in the distribution of products and services for the armed forces, police and gendarmerie

Police officers & soldiers deserve the best protection. This is especially true for the head. But what makes the best protection? What does a ballistic police helmet or combat helmet need to deliver today? Our answer is POLYTANIUM performance, comfort, and flexibility.

Combat helmets from **ULBRICHTS** Protection, with better protection beyond NIJ IIIA, offer superior performance in every criteria. Military and Emergency services around the world already trust our products. Six unique and compelling true protection features characterize our POLYTANIUM helmets. They ensure that our customers can fully focus on one thing: THEIR MISSION.

Stand-off Breaching Grenade

A 40mm grenade designed for stand-off breaching which improves both tactical and logistic operations.

30% lighter than loaded brass

Specialized composite-cased cartridges are 30% lighter than traditional brass-cased cartridges when loaded



👤 Thierry LABARRE | Chief Operating Officer

☎ +33 (0)2 43 92 81 66

✉ thierry.labarre@unitive.fr

🌐 www.unitive.fr

📍 Usine de Malpaire | 72300 PRÉCIGNÉ | FR



MOBILITY # ICTS and COMMAND # ACTION # MEDICAL SUPPORT



UTILIS

Tactical Command and Medical Tent for Special Forces.

As the French leader in tactical tenting for over 25 years, UTILIS develops and supplies its equipment and solutions to the French Health Services as well as to all the French Armed Forces and those of more than 50 countries around the world.

Our solutions and systems are designed in coordination with the units in the field and our research and development department to meet the various operational requirements. They are also tested on all types of terrain in order to meet the most demanding requirements. They will provide you with unequalled ease of deployment, incomparable lightness and the guarantee of a robust product.

Everything that made and still makes the UTILIS reputation.

For a soldier or combat team, from 2.5 to 50 kg (max), our innovative solutions offer a small logistical footprint and great tactical mobility. Perfectly adapted to support soldiers in the depths of the battlefield, whatever the environment and climatic conditions, our products are THE reference.

Since 2021, we offer a new range of products. Our concept: an external structure in aeronautical aluminium (lightness and solidity) and a suspended textile (technical fabric).

MAG10 and MAG20.

Already widely deployed, our equipment supports the «FS Health» with our projectable vital surgery modules.

You have certainly been covered one day in operation by a UTILIS product!



👤 Camille DALSTEIN | Project Manager

☎ +33 (0)6 19 22 90 06 | +33 (0)3 72 60 54 59

✉ camille.dalstein@utilis.fr

🌐 www.utilis-international.com

📍 Rue Abbé Mariotte | BP 64 | 57365 ENNERY | FR





#INTELLIGENCE



VITEC

The specialist in Tactical video solutions and Dissemination.

VITEC is a key player within the Intelligence, Surveillance, Reconnaissance and Situational Awareness arena.

Our end-to-end video streaming solutions enable customers to capture video content directly from any source and manage its delivery, as channels, to any connected device via an existing network.

Our field-proven products tackle video ingest, streaming, dissemination and archiving needs in the field and inside military and government facilities.

With a complete line of products designed to enhance military workflows by digitizing, distributing and viewing high quality video and critical metadata across the network, VITEC supports the most advanced video formats for Situational Awareness, Decision Support Systems and IPTV Platforms.

Designed to stand up to the rigours and mission critical nature of military and government operations, our Military-grade, ultra-compact, highly-rugged, VITEC's TOUGH series of Portable, Power-Efficient HEVC & H.264 streaming encoders deliver all the required capabilities to fulfill the most stringent Full Motion Video applications (FMV).

Our encoders provide high quality, low latency video encoding with frame accurate KLV metadata processing including Cursor-On-Target, MISB KLV and STANAG 4609 from IP, SDI or Serial sources.

Headquartered in Paris, France, we have a global reach through our different offices.

Making a difference with green initiatives, VITEC is the first Zero Carbon MPEG company and encourages customers to buy GreenPEG™ for continued environmental efforts to reduce.



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👤 Stéphane ROBIN | Senior Business Development Manager

☎ +33 (0)6 73 32 41 62

✉ stephane.robin@vitec.com

🌐 www.vitec.com

📍 99 rue Pierre Sépard | 92320 CHATILLON | FR



GICAT

The French land defence and security industry association

GICAT, a professional group created in 1978, has over 380 members, companies, midcaps, SMEs and startups. These members cover a wide range of industrial, research, service and advisory activities for national and international military and civilian organizations involved in land and/or air-land security and/or defence.

GICAT's international ambitions are reflected in its international fairs, EUROSATORY in France and Expodefensa in Colombia organized by its subsidiary COGES Events, and the organization of a France pavilion on a dozen defense and/or security fairs abroad.

In 2017, he launched the first startup accelerator in defence and security innovation, GENERATE. Today, it supports 55 companies in their development.



GICAT.COM

3 Avenue Hoche - 75008 Paris
+33 (0)1 44 14 58 20
contact@gicat.fr