



> Special Intervention Units



GICAT

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Editorial from General Laurent PHELIP, Head of GIGN



The increase of incidents attributable to the terrorist threat may affect the functioning of institutions and destabilize the State. To address the problem, law enforcement agencies must be ready to intervene urgently in degraded conditions whilst at the same time retaining control of the capabilities essential to managing this type of incident.

In reaction to the attacks that have targeted France since January 2015 and faced with a persistent threat, the co-ordination between the intervention units of the national gendarmerie and police was reinforced and formalized by the implementation in April 2016 of the national intervention plan decided by the Minister of the Interior.

The GIGN, a military unit of the special forces of the Ministry of the Interior is able to manage a high-intensity crisis both in France and abroad. It is an integrated structure, fully equipped to deal with a crisis on its own, but also inter-operable and can be fully integrated with the other special forces of the Armies or the police.

To be effective in dealing with crises it is important to anticipate and adapt to the way the adversary changes.

Thus the GIGN is constantly evolving in both methods of action and the definition of its materials. It is particularly important to understand the ways in which the adversary's operating methods evolve, in order to better fight it.

At present forces are required to engage with an adversary that uses weapons of war and will continue to use them systematically. It has therefore been necessary to develop rapid projection vehicles capable of traveling at high speed and fitted with armor plating that resists not only large-caliber munitions but also explosive devices. As a result of the use of new materials, individual protective equipment has evolved to be lighter whilst offering the same levels of performance and therefore increased mobility.

It has also been necessary to review our weapons and munitions to deal with terrorists who themselves are wearing bullet-proof vests. Having high-performance, hi-tech and perfectly adapted equipment in the field of intelligence and communications acquisition is also essential for the success of operations.

Being effective in action means also, and above all, having access to extremely well-trained forces. The women and men of the GIGN, beyond their day-to-day operations, repeat the procedures applied in counter terrorism over and over again until they become reflex actions. This guarantees that nothing is improvised, whilst at the same time remembering that in crisis management not everything happens as planned.

GENERAL LAURENT PHELIP

Special Intervention Units capabilities



Command - planning and conduct (C2)

Given the increased frequency of recent terrorist incidents, units such as the GIGN need to be ready to react immediately. Indeed, the new threats are forcing them to review certain models in order to be in a position to win the time war. Increasingly, operations require actions to be taken with very little information available, forcing the command structure to act within the first moments of the crisis, in conditions that are sometimes very degraded. However, despite this urgency heads of operations must resist the temptation to make hasty decisions. They must be able to continue to plan operations if required. Modern tools can be used to facilitate these planning tasks to include them in the overall scope of counter-terrorism operations.



Transmissions (C2)

Co-ordinating operations is essential in the event of complex incidents. Simple, resilient and interconnected transmission systems must be implemented in a number of different places. The operator at the end of the chain receives the orders from his commanders, and provides them with the information they need to resolve the incidents. Radio, satellite, telephone solutions etc... are methods of data transmission, used both in France and abroad, that can guarantee the success of any operation.



Intelligence/ATR (Video, Drones, Sensors, etc.)

Understanding situations remains the key to the success of an operation. Technical methods are constantly changing, not only for units but also for terrorists or criminals. The requirements remain the same - see without being seen, hear without being detected, follow, monitor, detect etc... The technical acquisition of intelligence, which is constantly evolving, means that technicians in the units need to constantly innovate. They perceive needs, exchange ideas with engineers, and manage at times together to innovate and thus ensure the success of the operations.



Mobility/Projection (vehicles, helicopters, Paras, etc.)

A mission often starts upon arrival in a contact zone, although it is also necessary to arrive there without any problems and quickly. The methods of projection are sometimes highly engaged and may present a risk in themselves. The operational forces look for effective solutions to successfully complete the operations, which guarantee the carriage of indispensable resources, protection and discretion. A poorly engaged operation risks failure, which is why the choice of the right means of delivery and its correct utilization are essential.



Protection (individual, vehicles, etc.)

How to best reconcile the imperatives of operator mobility and protection? This is the eternal question that combatants have to ask themselves. New technologies provide answers to this issue, with much lighter materials that are guaranteed to be at least as effective. Reducing weight not only leads to greater comfort but also to increased mobility.



Breaking-in and covert entry

Specialized units sometimes need to effect an entry without making a noise and without leaving any traces, or on the contrary, to enter in force and at speed. Here again failure is not allowed, as once detected speed is essential to retain the effect of surprise for as long as possible and the initiative.



Fire Power

Fire power remains the single most important capability. In a unit like the GIGN, the philosophy is to delay the use of weapons as long as possible. For a unit that is highly-trained in respect of discharging firearms, cases of use of such firearms remain relatively low. However, the controlled use of fire power does not prevent having genuine fire power available. For each operation, appropriate weapons and ammunition are chosen, as the mission needs to be completed with only such use of force as is strictly necessary.



CBRN

Intervention forces generally have a large number of rare pieces of equipment that allow them to operate in a polluted atmosphere. Experts master the materials and develop them in collaboration with manufacturers. The intervention units must seek to adapt to all environments, from smoke to CBRN risks.



Training

As a result of their excellence and their numerous engagements, the intervention units are able to export their tactical and technical know-how in both France and abroad, by training units in the areas of intervention, security/protection, observation/research, negotiation, weapons training etc... The first quality of a unit is based on the human factor. The unit therefore makes enormous investments in the areas of quality of recruitment and initial and continuous training.



Command



Transmissions



Intelligence/ATR



Mobility/Projection



Protection



Breaking-in and covert entry



Fire Power



CBRN



Training

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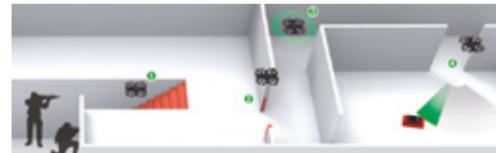
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3) Intelligence/ATR. 4) Mobility/Projection. 5) Protection. 8) CBRN.



Airborne Engineering Research.

The French expert in UAV for Intelligence Airborne Operations in harsh environment and indoor sites

SparrowHawk : Autonomous Indoor Intervention nano-UAV

The **SparrowHawk** is a Nano-UAV totally designed by AERACCESS to fly indoors to perform intelligence and inspection operations as well as counter-terrorism missions. It takes into consideration the difficulty of operating in narrow and dark environment. This 40 by 40 by 5cm UAV weighs less than 800g and features multiple sensors and both a visible and a thermal camera to detect human presence and provide visible image even in dark environment. To ease the operations, the operator will use the pre-programmed modes (change level, progress along corridors, investigate open environment, small rooms or complex environment, stay in observation) focusing on its mission. The SparrowHawk can also carry various extra loads during its mission.

The **NanoHawk** is a Nano-UAV specially designed for Special Forces by AERACCESS to fly indoors in a congested and dark environment. This 20x20 cm Nano weighs a few hundred grams and is fitted with both a visible and a thermal camera. The NanoHawk's flight assist mode allows the operator to be more focused on his mission rather than on controlling the device. It is designed to enter indoor sites ahead of the team and collect critical intelligence. The NanoHawk can fly outdoors for a few hundred meters (in urban area for instance) prior to its indoor mission up to 3 levels above or below the operator and his team.

All weather HAWKER Q800X

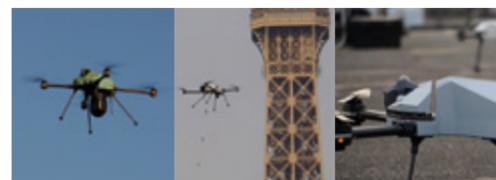
The Hawker Q800X has been designed to operate in harsh weather conditions such as heavy rain and strong winds up to 70kph. The Q800X is a multi-mission platform able to carry sensors like EO x30 zoom/IR 640; PHOTONIS NOCTURN; IPMESH; Laser Range Finder/ Designer; IMSI catcher; CBRN sensor. The Q800X provides up to 40 min flight time for a total weight of 7kg. The Q800X can be used for permanent tethered drone surveillance, Autonomous Site Security, Convoy Protection and CBRN Situations.

HawkEye Mk II: Individual Operator ISR micro-UAV

The HawkEye is the compact version of the Q800X. It weighs 2kg and offers a range of 3km with a visible (x10 optical zoom) and an IR 640 sensor. It operates with similar automated functions to the Q800X and is resistant to harsh weather conditions.

Tracker-i: multi-sensors , Plug & Play, Waterproof, gyrostabilized Payload

The lightest, smallest and best value for money in its category : 1.2kg, 20 cm diameter, PTZ, GCS controlled. Range of sensors: EO Full HD optical zoom x30, IR 640, SWIR, LWIR, LRF, Laser Pointer, PHOTONIS NOCTURN, 18Mpx mapping camera, IP MESH network, CBRN sensors, etc.



1) Command. 2) Transmissions. 3) Intelligence/ATR. 9) Training.



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Secure Communications anywhere, anytime

Airbus is the communications provider dedicated to the General Management Civil Security and Crisis Management. The implementation of this service allows the Operational Centers and the Department of Fire and Rescue (SDIS) to have dedicated and available communications 24/7. Offering access anytime, anywhere to capabilities to allow for business applications, telephony and access to the Internet, regardless of the state of terrestrial networks.

Tactilon Dabat®, Smart. Strong. Secure

Tactilon Dabat® is a game changing hybrid device for critical collaboration. It is the world's first smartphone with a full TETRA radio inside and represents a huge leap in TETRA evolution. It may look like a regular fully rugged smartphone, but it also offers the special multi-purpose push-to-talk buttons familiar from Airbus TETRA radios. It is therefore comfortable in even prolonged use.

M-tac for Intervention Forces

M-tac stands for "mobile tactics". Developed with the French Intervention Forces, this Android or Windows application can be downloaded on any smartphone, tablet or laptop, at any level of command (from the Sniper to the Command Truck, and even in the National Crisis Room). At any time, from anywhere, and without any equipment, any user could instantaneously create or import multiple floor-plans, and then collaborate in real-time on means positions and movements, areas status, and maneuvers tactics. The application HMI has been designed to be as simple and intuitive as what is expected from a smartphone app. Special features such as management of simultaneous crisis, collaboration with other Units, or use in remote environments have been added recently, to fit the broad and constantly evolving terrorist attacks patterns.

Airborne surveillance

As an example of our airborne surveillance solutions toward security forces and public safety, we offer SAM-SARA®, a sensors command & control and tactical situation management system for light mission Aircrafts, associated with a ground station. This flexible and cost-effective solution is particularly well-fitted for police air support operations, firefighting monitoring and post-disaster assessment.



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3) Intelligence/ATR.



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1) Command. 5) Protection. 9) Training.



Deep & Dark Web search and monitoring engines.

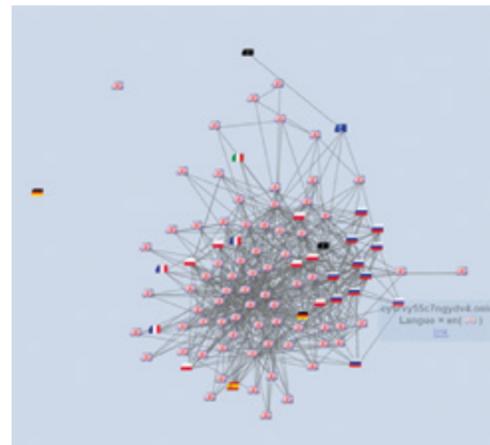
Since 2012, aleph-networks have developed and sold **two innovative technologies to collect, process, visualise, and anonymise data: GrayMatter and SafetyGate.**

SafetyGate is a distributed network (P2P) technology that addresses the risks of transmitting sensitive information.

GrayMatter technology indexes and structures very large volumes of data. It can process all kinds of data in any format, no matter the source (Dark Web, Deep Web, OSINT, etc.), and structure them according to business consultation criteria.

aleph-networks have developed a specialised search engine that is non-intrusive and completely independent of any API to explore the Deep & Dark Webs: GM Search Dark.

It pulls out strategic information, displays the search results in graphic form, offers multi-source analysis, and does sourcing using machine learning.



GM Search Dark's surveillance scope and analysis tools are one-of-a-kind

It monitors more than 200,000 Tor sites and more than 10,000 I2P sites in the **Dark Web**

It monitors more than 2,000 'Black Hat' sites in the **Deep Web**

This represents more than 227 million pages indexed, with a constantly expanding scope.

The search engine indexes sites, forums, open marketplaces, and connected objects

All kinds of office documents, PDFs, extraction of archives and HTML or TXT content; the language used by the sites; links between the sites and the relevance of these links; the identity of the sites (certificate of authenticity, geolocation, etc.); noteworthy information (email + password; email + hash; IP address; bank card No; Bitcoin accounts and transactions; social media accounts, etc.); and analysis of site and image metadata.

GM Search Dark also features a range of services: creation of target data flows, personalised reports, cyber studies, trainings, and so on.

Aleph-networks are now the **leading French expert in the Deep & Dark Webs.**

GM Search Dark is a unique investigative tool for conducting searches and in-depth analyses of the deepest, darkest corners of the web, **where most cybercrime occurs.**



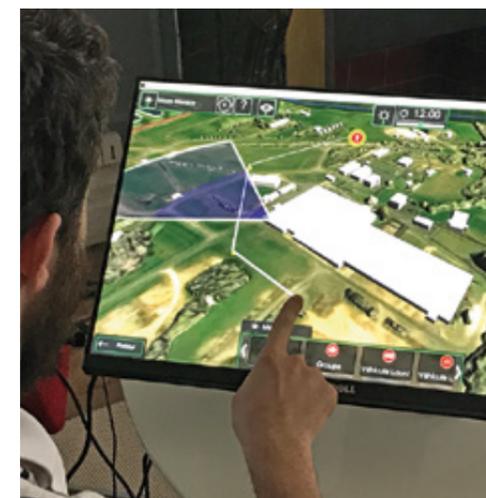
3DANALYTIX solution. Smart site protection, smart advice, smart devices.

1. Protection Audit

To analyze the weaknesses of the site, we build a 3D digital mock-up of the site to protect. Together, we set virtually protections on the mock-up, existing and/or new ones, and we run simulations of different categories of intrusions, which allows to identify the site's weaknesses. Costs are simultaneously analyzed. At your choice, either we participate in the process, or we give you the keys and support, and you manage the whole audit.

2. Choice and optimization of reinforcements

To chose, locate and combine the best combinations of thousands of potential protection means: infrastructures, sensors, security agents we run algorithms and databases. Tests are then done to confront with protection plans and key scenarios of intrusions. From there, a dashboard helps to decide which reinforcement plan is best for the objectives, at the lower cost.



3. C2-Hypervision, Smart tracking display

To raise the protection efficiency, and decrease the human need, we developed a tactical picture map displaying in real time the intrusion, its nature and its route. By adding smart programs on a PC server between the existing cameras and sensors network and the video surveillance displays.

3DANALYTIX - Used by French MOD, and private companies.

With Ardanti Défense, we have found what we were looking for since 2 years: a clear method and easy tools to detect the protection weaknesses of the Ministry's sensitive sites, and a way to choose the most appropriate and cost-effective reinforcements".

An officer from the French Ministry of Defense, May 2018.



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1) Command. 4) Mobility/Projection. 5) Protection. 6) Breaking-in and covert entry.



Leader of tactical mobility solutions.

ARQUUS is heir to famous brands such as Renault Trucks Defense, Acmat and Panhard. The company has been supporting the French Army for more than a century, and has been involved in the most iconic programs, from the FT-17 to the Griffon and Jaguar vehicles.

Leader of tactical mobility solutions

ARQUUS' internal security vehicles provide police forces with mobility, protection and flexibility. Through their mere presence, these armored vehicles often prevent an escalation of violence and are a means of deterrence in crowd control situations. They provide the special policing forces and border control units with essential mobility for rapid deployment, while offering a flexible response that matches the threat.

These vehicles are also a major asset for convoy missions, VIP or high-profile individuals transport, and checkpoint operations. They offer high-end capabilities for protected mobility in dangerous areas.

The Dagger is a particularly compact vehicle enabling task forces to operate in tight spaces both outdoors and indoors (shopping malls, for example). The Dagger also offers a very high level of protection for its crew of up to 8. The Dagger is the most compact vehicle on the market for its protection level. It is in service with the RAID (French police's elite SWAT team) and with many other security forces worldwide.

The Sherpa APC Assault Ladder is a specialized vehicle for the deployment of the police and security forces in extreme situations. Based on the Sherpa Light platform, it is equipped with an assault ladder developed to enable the security forces to take action during policing, counterterrorism or hostage rescue missions.

The Sherpa APC assault ladder can, for example, reach every access point of the A380 or the roofs and windows of high buildings. It is in service with the GIGN (National Gendarmerie Intervention Group) and with many other strike forces worldwide.

In addition

ARQUUS is able to offer a comprehensive range of vehicles to meet all the needs of the French and export markets, from unarmored 4x4 pick-ups (Trapper, Trigger), through homeland security vehicles (MIDS, Bastion), to armored 6x6 vehicles (Higuard and VAB MK3).

Thanks to its expertise in mobility solutions, ARQUUS can also offer drivelines for 4x4, 6x6 or 8x8 security vehicles, effectively ensuring high-quality tactical mobility for all security needs. Thanks to its expertise in mobility solutions, ARQUUS can also offer drivelines for 4x4, 6x6 or 8x8 security vehicles, effectively ensuring high-quality tactical mobility for all security needs.

1) Command. 2) Transmissions. 3) Intelligence/ATR. 4) Mobility/Projection.



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Communication and information systems for critical missions.

Atos SE is a digital transformation leader with 120,000+ employees in 73 countries and annual revenue of ca. € 13 billion. Serving a global client base, the group is the European leader in big data, security and digital workplace. It provides cloud, infrastructure and data management, business and platform solutions, and transactional services.

Secure and resilient LTE communications

To meet the challenges of forces in terms of data exchange and communication, Atos offers a complete range of tactical, secure and resilient solutions, from radio networks to applications. These solutions ensure the information, security and efficiency of field operations.

- **Professional radio network** based on the 3GPP 4G LTE standard and 5G compatible. This network can be offered in macro or micro versions, depending on the use case, and can be combined together. These deployable networks provide the high bandwidth, resilience and flexibility needed for field operations.
- **IoT compatibility:** a single network connects sensors, objects, smartphones, tablets, drones and robots in a secure way.
- A small **multi-channel portable module** that provides smartphone resilience, allowing you to switch between public and private networks without service interruption, should either network fall.
- **Mission communication applications**, such as tactical situation monitoring, video, instant messaging, dispatcher and recording, that are essential for missions.

Data intelligence

Scalable, flexible and modular, Codex for Intelligence is an end-to-end big and smart data solution dedicated to data processing and analysis needs. Based on multi-source and multifformat data, this solution supports operators in the exploitation and fusion of data and information to build a reference knowledge base.

Rugged PCs

The Elexo range provides rugged and semi-rugged hardware adapted to adverse field conditions. It generally meets military standards (MIL-STD-810G), TEMPEST and ATEX regulations, temperature differences and IP rating. Atos can physically adapt these PCs to the specific requirements of your missions.

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4) Mobility/Projection. 9) Training.



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- Safe driving
- Emergency driving
- Low grip driving
- Defensive driving
- Motorcade driving



2) Transmissions. 3) Intelligence/ATR. 5) Protection. 8) CBRN.



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French leading experts in the field of innovation for Defense and Security.

Since the very earliest days of the company, Bertin has been providing key input in the strategic sectors of Defense and Security. Our activities in this field include the provision of consulting and expertise, the performance of studies and the design and delivery of high-tech equipment. Bertin Technologies is renowned for its high levels of skill, knowledge & know-how and counts among its clients the DGA (French arms procurement agency), the CEA (atomic energy commission), DCNS, EADS, Nexter, Safran or Thales.

Optronics - surveillance systems

Bertin uses its expertise in visible and infrared optronics technologies to provide high-end devices for the surveillance of sensitive sites and the detection of threats & targets in any light conditions. FusionSight, world-first Night & Day vision monocular with smart digital fusion, and PeriSight, network of imaging sensor modules for Land Situational Awareness (LSA) and Driver Vision Enhancement (DVE), provide an enhanced vision for members of the military, first responders and civilian protection teams.

Latest addition to Bertin's optronic range, CamSight is a family of OEM cameras for complex optronic systems, based on FusionSight and PeriSight optronic technologies. Reliable and easy to maintain, CamSight modules are available in two versions, thermal and low light level, and are designed for vehicle manufacturers and integrators.



Detection / Identification of CBRN Threats:

- Chemical threat detection: Second Sight® MS, a stand-off chemical gas cloud detector ideally suited to military and civil protection operations. Giving real time detection and visualization of the gas cloud, it is easy to deploy infield and it can detect a large range of gas cloud up to 5 km away.
- Biological threat detection: Coriolis® range of portable bio-air samplers are dedicated to first responders in case of bio-threat suspicion. Light, robust and easy to deploy it allows long time monitoring of critical areas, in case of suspicious crisis.
- Radiological and Nuclear threat detection: wide range of products (dosimeters, survey meters, environmental radiation monitoring systems and access control portals) suitable for homeland security, emergency preparedness and defense.



1) Command.



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Designer and integrator Systems and Solutions for the Emergency Units.

CEGELEC Defense leverages its expertise in the provision of Emergency Operation Centers for the French Gendarmerie, Army and Airforce as well as Air transportable water treatment units for civil defense and expeditionary commodities.

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All solutions are designed to face the most severe environments and have been proven in expeditionary operations from Mali to Niger, Chad, Afghanistan, NATO QRF deployment etc.

These turnkey and autonomous solutions are easy and to setup and operate with minimal training in an extremely short time.

The Agility and Logistic Footprint reduction are further enhanced by their ability for instant redeployment and low storage requirement.

The integration of Command and Control equipment in CECELEC Defense Rapid Deployment Shelters is a capability enhancer for the efficiency of Command, Control and Planning in the real contexts of Emergency, Crisis and Operations.



4) Mobility/Projection. 5) Protection. 8) CBRN.



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Manufacturer of tailored mobile solutions.

With a 60+ year track record in armour integration, CENTIGON provides customized mobile solutions for military, defense, security and civil applications. With extensive manufacturing and R&D expertise, CENTIGON vehicles protect against multiple ballistic threats, from handgun to armour piercing and blast effects. A systematic control of the materials is conducted in our laboratory to ensure traceability; vehicle tests are carried out at renowned independent testing facilities like BNE, CEDREM, Mellrichstadt, TNO & QinetiQ. CENTIGON France is one of the five factories in the Centigon Security Group which employs 500 people worldwide.

The Fortress 200 Intervention is armoured to STANAG 4569 Level 2 and withstands side blast of 15kg TNT at 2m. Designed for Special Forces, the interior is modular and suited for different missions: hostage situations, surveillance, escort convoy, pursuit. The rear double doors and roof hatch act as shields to protect the crew under fire. Rims, tires, door hinges, brakes and suspension have been replaced to cope with the armour weight. The Fortress 200 Intervention can be used in Europe and deployed in operations theatres.

The Centigon FLAMS has been developed to cover a wide range of crisis situations for police law enforcement agencies and military -Counter Terrorist and Hostage Rescue- intervention teams. The system enables rapid access to various heights up to 8m above ground level. Specifically designed for urban and aircraft intervention, the system is lightweight and easy to operate. The vehicle is intended to be fitted with a detachable assault structure composed of various accessories for the crossing of obstacles.

Designed to seat up to 12 people, the **Renard F550** is the perfect fit for peacekeeping operations; it is available in various armoring levels. Thanks to its robust and powerful 4x4 chassis, the Renard offers greater payload and towing capacities. Modular and flexible, the interior layout and equipment adapt to each mission's operational needs: counter-terrorism, riot control, fast and secure personnel transportation. Both FLAMS & RENARD come with an armored monocoque hull that is fabricated from high-hardness armor steel providing protection for occupants and critical components from ballistic and blast threats against DM51 grenades. The PU coating acts as a fire retardant and provides further blast protection and superior resistance to corrosion and abrasion.



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3) Intelligence/ATR. 4) Mobility/Projection. 5) Protection.



Anti-drone Solutions Tailored to Your Security Needs.

CerbAir was created to counter drone intrusions and the threat they represent. A French company with an International mindset, CerbAir offers the ultimate in anti-drone solutions. Our in-house development and modular approach allow us to provide high-quality flexible airspace security at a competitive price.

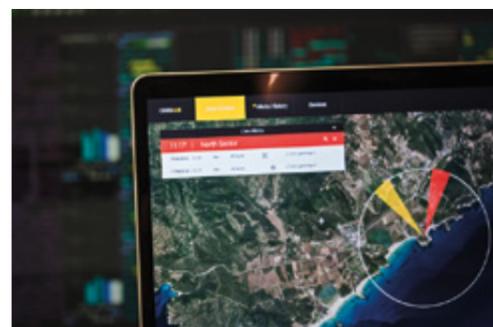
Radio-Frequency Based Drone Detection & Neutralization

Our advanced proprietary Radio Frequency (RF) technology is at the core of our CUAS solutions. Our Hydra RF sensor receives, digitalizes and analyzes raw RF signals, searching for specific patterns that indicate drone or remote-control communication and permitting real-time drone detection to assist in drone-pilot localization.

Anti-Drone Solutions Developed with Defense in Mind

CerbAir's solutions are easy to transport and constructed of top-grade resistant materials - ideal for use by Special Operation Teams and other Military forces. Four flexible formats provide for all your CUAS needs:

- **Portable:** Man-Portable Solution that combines our detection and neutralization technologies makes this solution unique on the market. Available in 2 formats (with or without neutralization) with automatic omnidirectional and manual activated directional detection.
- **Mobile:** A transportable system for temporary protection of sites and events. Fast, easy installation: two people in 20 minutes. It fits in an SUV or airplane for smooth transport.
- **Stationary:** Permanent anti-drone protection installed directly on site for 24/7 airspace protection.
- **Vehicle:** A rugged system directly mounted on the vehicle ensures discreet convoy and event protection. The embedded User Interface provides easy command & control while on the move.



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3) Intelligence/ATR.



Defense, Security, Imagery, Innovation at the service of counter-terrorism fight and protection of sensitive sites.

Perform studies, design, development, integration and support of systems (products, services and solutions). Specialists in intelligence, surveillance, supervision and reconnaissance on ground, sea, air and space.

Mobile Detection and Intelligence System Generation 2

This **mobile** product has the ability to be operational in 10 minutes. It **detects intrusion and follows target** into a large **protected area** through a tracking module, and comes with a fast estimate of heading as well as **intuitive cartographic tools**. It is an autonomous system which can be connected to ComSat.

Its radar device allow the **quick location** of potential elements that can be detrimental to the **safety** of a place. It is a system with a registration module that allows the **quick** and **reliable** creation of reports of incidents.

Protective Dome for Sensitive Infrastructure

Global surveillance operational in 2 hours:

- **Intrusion detection** inside the protected area
- **Intervention, real-time tracking** and **team guidance** thanks to tablets/smartphones
- Surveillance of various areas from **3200 up to 16000 ft²**
- Possible integration in a global protection system
- Night and day multi-threat system
- **Drone** support for a better waive of doubt
- **Anti-drone** system (option)

Those two products are **innovative solutions** for surveillance and reconnaissance. They use the latest imaging analysis algorithms as well as **quick situation analysis**. They are robust, ruggedized, simple and easy to use.

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1) Command. 2) Transmissions. 3) Intelligence/ATR. 4) Mobility/Projection.



specialforces@groupepci.com

GROUPE DCI
2, place Rio de Janeiro -
CS 80056 73381 - Paris Cedex 08

9) Training.



Radio Communication Specialists.

DataHertz is a radio communications specialist providing **narrow and broadband tailored solutions to operate in harsh environments**. 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 can provide integrated solutions to communicate throughout the tactical chain wherever required.

Seamless communications

In today's operational climate, a seamless networked solution to bridge Beyond Line of Sight (BLOS) to Line of Sight (LOS) networks providing long-range remote access to video, voice and data is a key success factor. Integration with in-service communication systems is key, not only to protect existing investments but to enhance the current operational doctrine.

Interoperability

Communication issues are not only between dismounted soldiers using different types of radios. It now includes UAVs (Unmanned Aerial Vehicle), UGVs (Unmanned Ground Vehicle), USVs (Unmanned Surface Vehicle), ROVs (Remotely operated Underwater Vehicle) and various sensors. This is all in addition to the regular vehicles, vessels, RIBs (rigid-inflatable boat) and aircrafts seen in today's common operational picture.

Expertise

Our area of expertise covers MANET (Mobile Ad Hoc Networks) with voice, video and data capabilities, narrowband radio systems like APCO 25 and DMR for voice and data. As a Motorola "Authorized Application Provider", we are able to develop applications to interact with your C4ISR for BFT (Blue Force Tracking) or any other purpose.

Context of use

- VBSS (Visit, Board, Search and Seizure) fighting against terrorism, piracy and smuggling.
- Operating in urban areas (inside and outside buildings, including skyscrapers, commercial centers...).
- Subterranean environments (tunnels, caves, parkings, sewer networks, subways...).



Created in 1972, by the ministry of Defense, Défense Conseil International (DCI) is the reference operator for the transfer of the French Gendarmerie and armed forces know-how to friendly countries. Thanks to the experts from the French Armed Forces, DCI offers tailor-made solutions delivered in France or in your country to meet your needs and to support the enhancement of your capabilities in the field of internal security.

DCI is involved in all the security and military domains

- Training and assistance in English, French or through an interpreter
- Personalized support
- Customized services to meet your needs
- In France or in your country

From initial training to complex missions

Through their engagement in France and overseas, the French Gendarmerie Nationale and armed forces have developed an internationally renowned expertise. DCI is giving you access to these know-hows integrated in a global coherent and adaptable concept to strengthen your capabilities. DCI offers training in all specialties implemented in the fight against terrorism:

- Intervention
- VIP protection
- VIP driver
- Sniper/counter-sniper
- Automatic gun shooting
- Protection of sensitive facilities
- Dog units
- Assault detraping and breaking and entering
- Crisis center management at operational and tactical levels
- DCI supports you in the training of your instructors and negotiators.

Capability acquisition within a global offer

DCI supports you at each step from your need analysis, your equipment selection and acquisition, to your teams training. Drawing on its own experience and on the French armed forces and gendarmerie know-how, DCI also supports you in the audit and implementation of your civil and military doctrine, concepts and organization.

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1) Command. 2) Transmissions. 9) Training.



Professional drone manufacturer and expert in embedded Artificial Intelligence.

Founded in 2011, DRONE VOLT is an aeronautics manufacturer specialized in professional drones with operations in France, Belgium, Netherlands, Canada, Denmark, United States, Switzerland and Indonesia. DRONE VOLT offers a global solution including different services and the training of drone pilots. DRONE VOLT is listed on the Euronext Growth market in Paris.

Airshadow - Mini professional UAV

The Airshadow is a surveillance drone, the ultimate tool to enhance situational awareness. The Airshadow is a 2kg (4,40 lbs) mini drone, with 20 minutes flight time and capable of flying up to 90 km/h. It is resistant to winds up to 40 km/h (24,85 mph) and can fly in moderate rain condition. Quiet, with a low audible and visual signatures. It has an AES 256 encrypted communication, extremely secure thanks to a very wide spectrum of frequencies. It can operate in a large radius with a signal range up to 5 km (3,10 miles). Easily transportable, the Airshadow measures 31 cm (1,01 ft) by 33 cm (1,08 ft).

Hercules 20 - High payload capacity drone

The Hercules 20 can lift any type of payloads up to 20kg. Built to last it is extremely resistant and durable. The Hercules 20 flies up to 45 minutes. Its compact design, with removable arms and landing gears, makes it easy to carry.

Altura Zenith - Pensar Camera with embedded AI

The World's first dual (EO x30/IR) spectrum computer vision platform. Real-time processing camera with unlimited potential for infinite applications. Pensar allows users to run algorithms that filter the acquired data and output only what's relevant to them. The Altura Zenith, the most versatile professional drone. Compact and lightweight, with an autonomy of 40 minutes, it can carry a wide range of payload.

Streampack - 4G Secure portable transmission unit

- 4G secure live streaming
- One button start/stop
- Operational within 60 seconds
- Lightweight, waterproof and crushproof



make sure

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3) Intelligence/ATR. 4) Mobility/Projection. 5) Protection. 8) CBRN.



Robotics & Integrated systems for Air, Land and at Sea.

Since 1936, ECA Group's highly skilled personnel have been designing, developing, and supporting robotic systems worldwide. These, as well as training simulators, remotely operated systems and special equipment, support the Homeland Security, Special Forces, Naval, Land and Air Force domains. ECA Group provides a complete range of solutions in all operational environments. From Remotely Operated to Unmanned and Autonomous vehicles.

Mission driven and tailored to individual customers' specifications, ECA Group's systems are interoperable and provide complete sensor choice.

For many years, ECA Group has been focusing on robust R&D efforts in developing systems of robots. Its robotic solutions are optimized to successfully perform missions at Sea, on Land & in the Air.

Unmanned Maritime Systems (AUV, ROV, USV)

For naval activities, ECA Group is actively engaged in coastal and harbor protection. its range of Underwater (AUVs / ROVs) and surface drones (USVs) are used by many Navies worldwide. Its naval robotics solutions have both civilian and military applications, in the field of Oceanography, Hydrography and Underwater Mine Counter Measures.

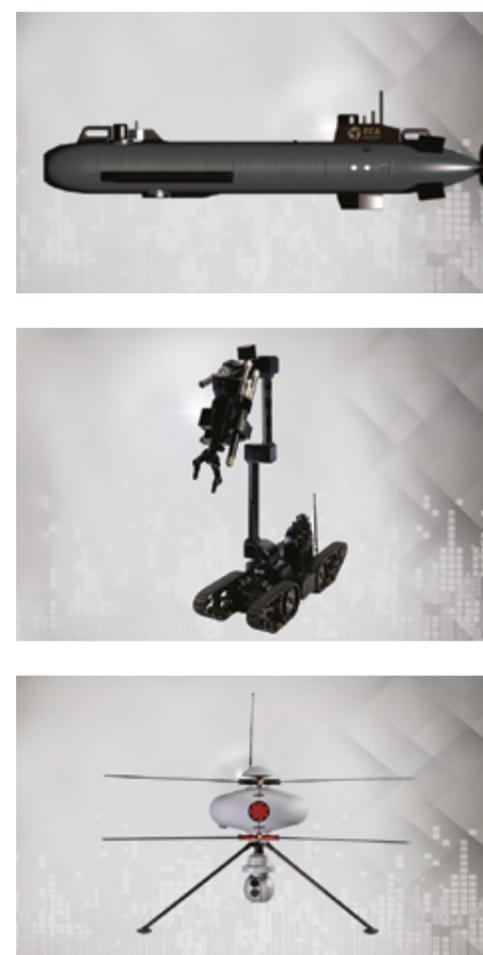
Recently, ECA Group's innovative developed its fully integrated Unmanned Mine Counter Measures Integrated System called "UMIS" suite for Mine Warfare. This brand new systems enables to operate ECA group's Autonomous Underwater / Remotely operated vehicle (AUVs & ROV) and Surface vessel (USV) from a mothership in a stand-off distance to proceed to any type of MCM mission. ECA Group USVs solutions can also be deployed in missions involving maritime counter-piracy operations.

Unmanned Ground Vehicles (UGV)

For Land Forces, Eca Group provides a complete range Unmanned Ground Vehicles (UGVs). These robots enables to handle missions for both military and civilian applications, such as IEDD/EOD, demining and trap removal operations. It enables to clear missions even in the most confined areas, thanks to the different sizes of its range: from the small UGV Cobra MK2 E to bigger UGVs such as Cameleon E & Iguana E.

Unmanned Aerial Vehicles (UAV)

For Air surveillance missions, ECA Group designs and develops Unmanned Aerial Vehicles (UAVs). Specifically designed to carry intelligence, surveillance, target acquisition and recognition (ISTAR) missions. ECA Group UAVs can be used autonomously or using a tethered mode for permanent missions. The group has also developed an Anti-drone application UAV, called "The Paradrone" for the neutralization of malicious drones and operator identification in the domain of Law Enforcement.





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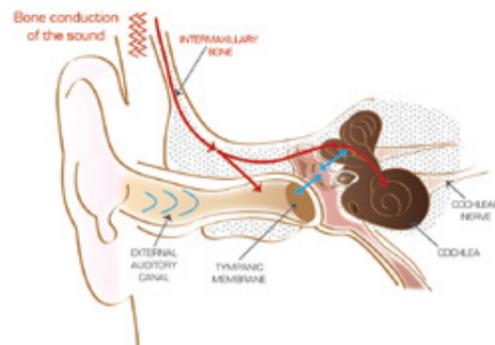
2) Transmissions. 3) Intelligence/ATR.



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3) Intelligence/ATR. 7) Fire Power.



Cutting edge technology for communication in severe environment.

Working with armed forces all over the world, ELNO has deployed its extensive expertise in the design and production of communication systems for use in harsh environments. Highly sophisticated technologies and equipment ergonomics are leveraged to maximise the effectiveness of crew communications and protection. Always on the front lines of innovation, after its success in the FELIN program with bone conduction headset, ELNO was recently selected to contribute to the French "SCORPION" Defence program with the HOPLITE headset connected to its IP intercom ELIPS™.

HOPLITE - 3D headset with cartilaginous sound conduction

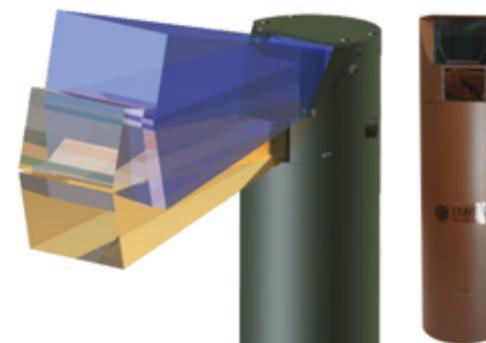
HOPLITE represents the next generation of communicating headsets for Response Forces. With a unique experience of providing Bone Conduction headsets and ANR helmets for many years, our equipment allows Intervention Forces to improve their mission effectiveness. HOPLITE headset provides a high wearing comfort thanks to its ergonomic earphones and allows communication in noisy ambients. Cartilaginous Sound Conduction technology offers the operator the possibility of using earplugs for a double protection in particularly severe environments. Used in vehicles, the ANR option reduces the sound level (in particular in low frequencies), the DNR reduces ambient noise and improves the quality of voice transmitted. Available for the first time world wide, the 3D TalkThrough® option sends back the external sound and offers the user a real spatial perception of the environment in 360°. This option is a cutting edge technology which is available for the first time ever.

BCHTETRA - BCHTETRAPOL - Communication kits

The new communication kits BCHTETRA/TETRAPOL have been designed with Bone Conduction Technology for both earphone and microphone previously used in the FELIN program. These new headsets allow communication in very noisy environment and work with TETRA/TETRAPOL radios. They are particularly suitable for observing and spinning missions.

- Amazing and unrevealed comfort
- Ears free, stay alert to environment
- Voice transmission without transmission of ambient noise
- Whisper speech capabilities
- Freedom of movement
- Compatible with most accessories

BCHTETRA – BCHTETRAPOL can be delivered with various equipment: flat, extra-large or finger PTT



Since 1990, EXAVISION has been and remains a leading supplier of solutions dedicated to the protection of goods and people, in hostile and dangerous environments, mainly for Defence and Homeland Security applications.

EXAVISION, independent French SME, designs and produces complex, stand-alone solutions and tactical equipment, dedicated to battlefield surveillance and sensitive sites protection.

Thanks to its high level of knowledge and competences in mechatronics, optronics and system integration, EXAVISION has developed innovative and modular solutions integrated into global product lines including:

- **EXARADAR:** range of fixed or moving radars to protect sensitive areas against moving threats like men, vehicles or UAVs.
- **NEMOSYS - Electro-Optical Solutions:** The new NEMOSYS range enables fully automated day and night surveillance and comes out in four versions: short (SR), medium (MR), long (LR) and extra-long (XR) range. These optronic systems are mounted on dedicated 2-axis motorized pan & tilt mechanisms and integrate a wide selection of different sensors: Full HD colour cameras, cooled (band II) or uncooled (band III) thermal cameras.
- **Combination between EXARADAR and NEMOSYS product range enable real-time detection, identification, localization and tracking of targets from a few hundred meters to more than 20 kilometres:** A supervision software "VIGISENS" manages the different sensors with a GIS and fully automate the different process 24H/24H.
- **PRISMAMAC:** Covert and waterproof zoom camera range with rotating 2-axis motorized prismatic head. This range integrates high sensitivity color cameras with built-in zoom lens or fix focal lens and / or with uncooled thermal cameras. Ideal solution for intelligence in harsh conditions in total security.
- **Non-lethal acoustic and optical effectors:** dissuasive equipment such as strobe light, laser illuminators and Long Range Acoustic Device (LRAD) - concentrated 15-30° sound beam to broadcast highly intelligible voice messages (live or prerecorded) and safe, powerful warning tones over large distances.

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9) Training.



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5) Protection. 8) CBRN. 9) Training.



Provider of cutting edge simulators.

B2M CFS

Stemming from the new generation of Combat Firing Simulators, the B2M CFS is a tailored system that offers powerful and sophisticated functionalities dedicated to technical firing instruction and tactical training. Used on a regular basis at combat training centers (CENZUB, CENTAC, etc.), this simulator allows Armed forces to improve their skills faster and train more effectively. This system includes a shooting function and a target function. Adaptable to all calibres, it allows **Armed Forces to train with real weapon system reducing training costs and enhances training safety without ammunition.**



ARES CFS

(Combat Firing Simulator) is the latest addition to the range for small calibers. It has been specifically designed to meet the needs of Armed Forces and Security Forces. It allows users to train in real-life situations by accurately simulating the effects of fire engagement using a « one-way » laser to be able to fully simulate the actual consequences of combat in that field. ARES CFS is quick to set up. This shortens the time needed to prepare exercises so that users can focus more on actual training. The system consists of small, user-friendly devices that are fully adaptable and interoperable. Users can move about and use their small arms unimpeded.

ARES CFS uses wireless technology to connect its various devices and RFID technology for pairing and stock management.



Virtual Shooting Range Simulator (VSR)

The VSR allows you to safely learn how to manipulate and set-up a real weapon and emphasizes the precautionary measures related to weapons dangerousness. The VSR **provide an immediate answer** to the ever-growing demand of Security Forces for training and a **quality training 24 hours a day for up to 6 shooters** with extra features on demand. With the VSR the trainee will **gain a technical and postural experience** at his own pace based on his know-how and knowledge.



French firm specialised in clothing and gear for law enforcement forces since 1984.

GK Professional designs the gear, clothing and uniforms necessary for their duties. Continuous innovations make it possible to design and manufacture the best products for law enforcement forces. All gear for police and security forces, etc. is stamped with the GK Professional brand and manufactured with strict attention to detail and unique know-how.

For over 30 years, GK PROFESSIONAL has conserved and defended a unique company policy of reinvesting directly in its equipment, logistics, and production techniques to maintain complete control and responsibility for all operations.

GK PROFESSIONAL is one of the few French companies to have its own manufacturing facility in Paris, providing the capacity to produce pre-production series of between 10 and 500 units along with unrivalled production rates and proximity.

What's more, to stay ahead in a competitive market, production is also assured by different manufacturing sites in Europe and worldwide. This structure enables perfect control and traceability over the manufacturing quality of products.

Sales are handled in-house by the sales department, and also by the 500 retailers in France and worldwide, via the website www.gkpro.fr, and the store in Paris.



Thanks to the attention focused on all comments and requests in relation to the duties facing law enforcement forces in the field, GK PROFESSIONAL, bringing over 30 years of experience, offers a large range of holsters, accessories and equipment, with some 2,200 product references in total.

GK PROFESSIONAL has been awarded a large number of contracts worldwide, one of the most significant being awarded in France in 2001, for the provision for the entire French national police force: 120,000 covert bulletproof vests and 25,000 overt bulletproof vests.

GK PROFESSIONAL was awarded another tender in 2013, for the provision and replacement of covert bulletproof vests for the police force, customs officers, and prison staff.

GK PROFESSIONAL caters to constantly evolving needs by supplying quality gear, with our unique and immediately recognisable design!



GROUPE MARCK

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4) Mobility/Projection. 5) Protection. 8) CBRN.



Groupe Marck is a French industrial group designing, manufacturing and selling uniforms, equipment and services solutions for public authorities and armies worldwide.

Two companies of Groupe Marck feature historical and dedicated know-how serving the Forces

- VTN: With 60 years of experience, VTN is a leading manufacturer of technical clothing for personal protection and security. Thanks to its Research Department, VTN develops a complete range of anti-riot and PPE (Personal Protective Equipment) solutions for the security forces. It is the reference in the field of technical clothing.
- SILLINGER: Sillinger is a shipyard recognised worldwide for the performance, reliability and quality of its craft in CSM/Neoprene. Sillinger designs and manufactures boats dedicated to military use: foldable, RIBS or rapid deployment units. Since 1962, the company has equipped armed forces, marine commandos, coast guards, firefighters, etc. all over the world. Sillinger also sells anti-pollution inflatable structures. And offers a full range of logistics support services.

Groupe Marck key figures

- 7 production sites in France and 1 in Tunisia
- 946 employees worldwide
- 2016 consolidated turnover: 110 M€

Groupe Marck comprehensive offer

- BALSAN: Uniforms and corporate wear
- B.B.A: Accessories for uniforms
- ETELIUM: Vessels and marine structures
- MARCK: Clothing and equipment for security forces worldwide
- OMP SOLUTIONS: Global offer for peacekeeping operations
- SENTINEL: Clothing and equipment for local authorities
- SILLINGER: Inflatable boats and structures
- SOFEXI: Equipment for public authorities worldwide
- VTN: Technical equipment

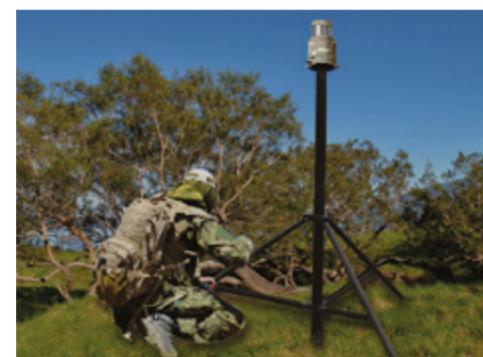


3) Intelligence/ATR. 4) Mobility/Projection. 5) Protection.



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IR systems for 360-degree situational awareness.

The infrared reference for over 30 years

Founded in 1982, HGH Infrared Systems designs, develops, assembles and sells optronic systems for industrial, civil, defense and security applications. In 35 years of existence, HGH has established itself as an international reference in terms of innovation in infrared technology, through the development of multiple advanced sensors.

Since the early 2000s, HGH has speeded up its international expansion, with over 80 % of its production exported. In 2016, HGH acquired Electro Optical Industries, the world pioneer of electro optical test equipment. This acquisition greatly enhances HGH worldwide presence and support capability toward customers. With the skills gathered over decades, HGH has developed a new range of products, SPYNEL, 24/7 wide area surveillance system, with automatic intrusion detection and tracking. SPYNEL protects several critical infrastructure around the world, and won numerous international innovation awards.



Transportable wide area surveillance system, deployable in theater within minutes

With dimensions of less than 12x20 cm and weight of only 1.8 kg, the Spynel-M is a cost-effective, rugged, and compact solution for wide area surveillance, taking advantage of fifteen years of expertise in major security projects. SPYNEL-M is a high-resolution panoramic thermal camera, acting as an infrared radar. Continuously capturing full 360-degree infrared images every second, it provides real-time security against conventional and asymmetrical threats including hardly detectable targets such as UAVs, RHIBs, or crawling men.

One single Spynel-M sensor is able to perform 24/7 early human intrusion alerts over a 1.5 km-diameter area and can replace up to 16 traditional cameras over 360 degrees. Easily transportable, it can be carried in a backpack and quickly deployed on a light mast or fixed atop a building for superior wide area surveillance. While requiring only 5 watts of power, Spynel-M can also be operated with solar or alternate power supply systems to allow for a remote operation. The system requires no additional light source; unlike radar, it is completely passive and cannot be jammed. The new sensor benefits from the functionalities and performance of the intuitive advanced intrusion detection software, Cyclope, which automatically tracks and detects an unlimited number of targets from any direction at any time of day or night and under any type of weather conditions.





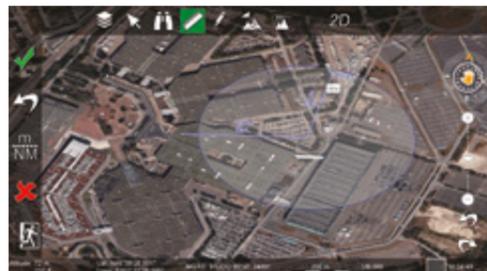
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1) Command. 2) Transmissions. 3) Intelligence/ATR.



IMPACT is a software solution provider with a proven track record delivering cutting-edge solution to Special Forces, with an area of expertise in GIS, moving Map, SA & TACSIT, C2, ISTAR, real-time data fusion and remote sensor feeds management.



Geo-mapping data integration & management and terrain analysis tools

- Generic functionalities : persistent display of information (coordinates, Elevation; scale, time), map drag & pan, 3D view orientation, markers, GOTO, Bookmarks, Integrated GIS query tool, Azimuth & Distance measurement tool, 2D / 3D toggle...
- Drag-and-drop import of various geospatial data formats
- Vector graphics overlays and drawing tools, elevation profile, 2D & 3D intervisibility...

Real-time 2D or 3D navigation

- NMEA 0183 GPS frame compliant
- GPS auto configuration and auto connect / disconnect
- Creation and management of waypoints, routes and POIs
- Navigation window with coordinates, elevation, current heading, ground speed, bearing, distance to WYPT, ETA display
- Real-time route logging
- Alerts (Danger areas, phase lines, route / corridor lateral egress alert)



Sensors and Communication equipment

- Compatibility with existing sensors and devices: Pearl, Pilar, Blue Force Tracker (SILEX, Sysnav) etc.
- Supported communication equipment include: ROVER 5i, Vortex, SIR, PRC117, PRC152 and Inmarsat

Standards et protocols

Compliance with the following standards and protocols: KLV (STANAG 4609), VMF (STANAG 5519), TCP/IP, Liaison H (LH)...

Powerful JISR features

Treatment of various sensor feeds and metadata in real-time or near real-time: ATO/ACO display, Target information display, Aircraft or UAV position & track, sensor footprint and sensor point of interest (SPOI), Aircraft to target path...

J-FIRE features

- BFT and TACSIT data fusion and real-time or near real-time positioning data exchange for increased SA
- Integration with a wide range of LRFs (Sophie MF & XF, JIM LR, Vector 21 / 4 / Nite, Moskito and PLRF25C)
- Extract and display coordinates from a designated point on the map and transmit the targeting data using standardized message formats.
- Messaging and graphical tools to create, update, send and receive TACSIT data.



LHERITIER

ALCEN

3) Intelligence/ATR.



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Identification human beings inside cars

Vehicle plate identification lights on



OBSERVATION-INTELLIGENCE: cameras & vision systems



Critical surveillance & identification

LHERITIER is an innovative French company (part of ALCEN Group) For more than 30 years, LHERITIER is a key player in the field of optronics, developing reliable visible (low light) cameras for the defense, security, aerospace and transport markets.

From human recognition to facial identification

LHERITIER proposes CAT EYE a dual use portable surveillance imager camera aimed at the defense and security markets. Finally, embedded photo and video recording is an essential function when setting up legal evidence or support decision making in security operation. The natural image quality of CAT EYE offers visual performances by day or by night, to meet any critical surveillance mission at secure distance.

CAT EYE recognizes human beings at 1.3 km (daylight) and, under good conditions of visibility, can identify it at more than 200 meters. In relative obscurity, CAT EYE recognizes human beings at 700 meters and identifies it up to 200 meters. CAT EYE is dedicated for long range or long duration surveillance mission at secure distance, vehicles or boats plate number identification as well as human facial identification and data collection behind windows.

Accurate, mobile and autonomous

CAT EYE optimizes in a single channel (passive or active imagery camera) operational efficiency in various areas like surveillance missions, civilian populations protection, counter intelligence and counter terrorism, security of critical sites or large events as well as VIP and Embassy protection. Portable, mobile and autonomous CAT EYE provides high resolution image (Full HD) and identification performances unreachable with infrared technology until now. CAT EYE, as mobile and autonomous camera is offering, day and night, in the rain, under light fog or heavy pollution conditions, even in dark night, high resolution observation performances for critical surveillance mission. In low light conditions (down to quarter moon), or in the midst of night, CAT EYE captures a clear, sharp and realistic image by restoring the natural contrasts magnified by the human brain.

CAT EYE: optimal image quality for all Security mission

- A single channel camera easy to use with an instantaneous image.
- Full HD 1080 p images and videos in low light conditions (passive mode)
- Facial identification capacity (200 m Night 4-5) for critical surveillance mission at secure distance
- Critical intelligence image even under poor meteorological conditions (night 1 -3 in passive mode and 4-5 in active mode)
- Capacity to collect data and detect human beings behind windows
- A low consumption camera given autonomy (4h) for all surveillance mission

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2) Transmissions.



High Performance Wireless IP Network for First Responders.

Luceor products make it easy to deploy a secure, mobile, and resilient wireless network to connect First Responders at broadband speed. You can now stream HD video from as many cameras as you need, connect drones and robots, patrol vehicles and new types of sensors to gain a precise, real-time view of the situation anywhere on site.

The ideal complement to your 4G/LTE network

You know you cannot rely on public 4G networks to run critical operations. You're never certain you will be able to connect where and when you need. Operators cannot guarantee network availability when a crisis occur. You need your own dedicated mobile network. Private 4G/PMR are great, but you want to preserve the limited radio spectrum you have to ensure group telephony and broadband access from smartphones. A Luceor WiMesh network offers you the much needed additional wireless bandwidth for your nextgen sensors.

Emergency Deployments

Streaming quality video to the control centre from body-worn cameras, drones, robots or patrol vehicles. Backhauling your private 4G/PMR to connect your tactical networks together and to the command centre. Whether you are a law enforcement agency, a civil protection unit or the security team of a critical industry, you need ad-hoc mobile broadband to solve crisis.

A Luceor WiMesh network is self-forming and easy to deploy. Our wearable routers build the broadband network as you move on site. They offer 600Mbps of dedicated bandwidth and ensure seamless transmission even from fast moving vehicles. The WiMesh technology is based on self-healing military concepts, making Luceor networks highly resilient so you can communicate and access network resources from any crime scene, accident sites, tunnels or even inside a nuclear plan!

Temporary Events Security

Sport events, international summits, political protests... Whether it's for a few days or a few weeks, you need a dedicated broadband network to connect security equipment. Luceor routers allow for the rapid deployment of 100% autonomous temporary networks to easily cover one-off events in different zones. Because they are simple to deploy, numerous police forces use them to secure major events, such as the EURO2016, G20/G8 summits, etc. Once the event is over, Luceor equipment can be quickly installed elsewhere to secure another event.

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3) Intelligence/ATR. 5) Protection.



A French SME, who develops innovative equipments for the protection of sensitive sites and infrastructures.

UAVs (for Unmanned Aerial Vehicle) are used as a weapon and are a modern threat. Easy to trap and to pilot, difficult to detect, cheap and efficient for attack. They can be used against civilians, military base, convoy, but can also threaten airports, nuclear plants and other sensitive sites. In front of the increasing threat of drones, MC2 Technologies develops solutions against UAVs, IEDs and various communication protocols. Which are drones scramblers, available in portable or fixed version:

- **Portable systems** are composed of antennas integrated in a rifle. The operator uses it as a "normal" rifle: targeting the UAV with the sight and activating the trigger. The jamming is directional. They are perfectly adapted to mobile troops and give them the opportunity to operate fast against an attack. MC2 Technologies proposes two different products:

- **The Scrambler 300:** Efficient against 95% of commercial drones. Batteries and jamming systems are installed in the backpack.
- **The NEROD F5:** Efficient against 98% of commercial drones. Batteries, jamming systems and antennas are fully integrated into the rifle.

Both Scrambler 300 and NEROD F5 systems can jam drones over a few hundred meters and are efficient against frequency hopping. Portable systems are stealthy, so they can be used without being detected.

- **Fixed systems** are using the same principle. But they can offer a directional protection with higher distances or a bubble of protection with an omnidirectional jamming. MC2 Technologies proposes two different products: **UAV Scrambler 1000** and **RJS** (Reconfigurable Jamming System). The RJS consists of several configurable modules and can have up to six emission modules. They can set independent emitted power for each frequency band and can be stopped instantly.

All MC2 Technologies scramblers have been designed to be **harmless and easy to use for users** and are **innovative solutions** for Action and intelligent support."

4) Mobility/Projection. 5) Protection. 8) CBRN.



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Mobility Mats, CBRN protection and Special Products in Rubber & Technical Textile.

Ballistic Protection

Musthane manufactures specific ballistic protection for fuel bladders or vehicles made of polymers and advanced textiles.

CBRN Protection

Musthane manufactures specific products made of rubber resisting to most of the CBRN threats. Musthane manufactures also decontamination units or Colpros.



Helicopter Landing Mats

A unique compact and light weight double ply rubber coated fabric material used for preparing a surface for the Forward Area Refueling and Ammunition Points. Mustmove® Helipad is so compact that 8 full kit of 400 m² can be transported inside a KC20 (ISO 20' container). The very unique reusable anchoring system offers a very quick and safe anchoring system.

Vehicle Recovery System

An innovative, with very efficient and specific design for the recovery of military vehicles from sand and mud. This solution is the best alternative to most of the existing recovery mats which, when efficient, are used only for few operations...

Temporary Rapide deploy Roads

Matting system deployable by 2 or 4 men in order to design a trackway for vehicles or for men where the area seems difficult to access due to mud or sand for example.

Refueling

Musthane manufactures fuel bladders with high standards in quality specifically for special forces requirements. These fuel bladders can be dropped into the ground or sea. The fuel bladders can be offered with our home designed fuel pumping and filtration units in service for forward area refueling of helicopters.



1) Command. 3) Intelligence/ATR. 4) Mobility/Projection. 5) Protection.
7) Fire Power. 8) CBRN.



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Creating references in defense.

Nexter, a KNDS company, european leader in land defense, is an architect and system integrator. Heir to more than 250 years of expertise, it develops and produces high-end defense systems, artillery, ammunition, protection solutions and armored vehicles for land, air, naval and security forces.

Benefiting from its experience with the military, Nexter provides modern, efficient and reliable systems for Special Intervention Units.

Among others

TITUS® Homeland Security is the security version of TITUS® 6x6 Wheeled Armored Vehicle. It is designed to answer the specific needs of Security Forces around the globe.

Offering exceptional protection for both the crew (driver, gunner and tactical commander) and on-board team, Nexter also put extra effort on habitability in the hull to cover long operations. With its 13 meters turning circle, TITUS® Homeland Security is highly maneuverable and a perfect fit for both urban and off-road environments.

A variety of public security equipment can easily be added, such as public address system, search lights, assault ladders, bull bars. Add-ons such as Smoke grenade Launchers, anti-sniper sensors and anti-RPG can also be mounted.

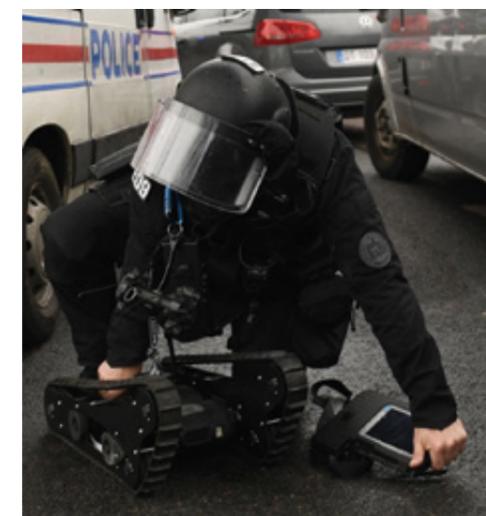
TITUS® Homeland Security is used on a daily basis by the French Police's RAID unit. A famous case is its deployment during the COP21 conference.

NERVA®LG are discreet, fast, reliable and easy to deploy robots that can be equipped with a wide range of equipment and are effective in a multitude of missions such as detection of suspect objects (IED, drug, bomb...), CRN-e detection, rescue missions (2-ways intercom audio) etc. It is ideal for minimizing personnel exposure and scouting. « Explore, detect, react ».

NBC-Sys' range features protection against CBRN exposure, such as EVATOX type hoods, CBRN masks, Survival Kits or Decontamination Systems. Whether it originates from accidents or terrorist attacks.

Be it on foreign soil or within national borders, Nexter's stands as a reference in defense and security. Its innovative solutions makes it the go-to company to ensure protection against all threats of the XXIst century.

Find Nexter's full range of products on its website: www.nexter-group.fr



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2) Transmissions. 3) Intelligence/ATR. 5) Protection.



Control wireless communications – Battle-proven equipment.

Nuances Technologies designs lightweight and discreet equipment enabling, among other things, security to be ensured and order to be maintained during major events.

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 potential targets in order to enable decision-making;
- Neutralising communications with selective jamming if necessary;
- Securing communications over all types of territory;
- Replacing defective telecommunications networks;
- Supporting hostage recovery and other rescue and evacuation operations;
- 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 solutions
- Mobile private communication networks

Services

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



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5) Protection. 8) CBRN. 9) Training.



OUVRY is a French company that specializes in the study, development and manufacturing of CBRNe systems of personal respiratory and body protection and decontamination solutions.

Ever since OUVRY was created more than 10 years ago, OUVRY continues to develop building on 3 capacities

- Low to medium volume industrial manufacturing with a controlled and experienced supply chain, which is mainly French.
 - TFI® Intervention Groups air permeable coverall: developed for GIGN (the French national gendarmerie intervention group), and adopted by National Police Intervention Forces (RAID, BRI...)
 - O'C50® Respiratory protective masks manufactured in Lyon, respiratory protective systems (FM53 mask and ST53SD SCBA), EZAIR PAPP, MILCF50 CBRN filter canister.
 - MEDIC'OPS® bag was developed in collaboration with GIGN to carry first aid equipment in CBRN contaminated environment.
 - « INFI » Infiltration suit, with specific camouflage fabric, for observation and research missions
- Design, research & development, project management. System integration ensures that requirements related to ergonomics, thermal-physiology, as well as the tactical requirements related to combat conditions (camouflage, weather conditions, health hazards, maritime environment...) are taken into account.
- Innovation capacity: the latest one was presented in November 2016 during the DGA Innovation conference: the new immediate dry decontamination mitt DEC'POL®.

DEC'POL®: brand new device for CBRN immediate decontamination, absorbs and destroys biological and chemical warfare agents. DEC'POL® is simple and fast to use, and dramatically reduces cross contamination risks by limiting the release and inhalation of powder that may contain toxic agents.

O'C50®: The O'C50® mask is CE certified and offers protection, comfort, ergonomic adaptation and enhanced communication: flexibility of the face piece and de-mist properties, side mounted canisters, panoramic and flexible visor, optimized harness, drinking device, optional voice projection unit and microphone.

TFI® - TARGET® gloves: Intervention Groups' coverall and CBRN gloves: Made on the basis of an optimized air permeable filter fabric (innovative, light, fire-retardant materials, etc.), the TFI® coverall ensures optimum protection and performances.

We are extremely conversant with the operational needs of our customers, which means we are able to adapt the design to meet tactical requirements. Our suits are available in training version.

CBRN air permeable TARGET® gloves: specially developed for handling handguns, the air permeable gloves bring comfort and accuracy to the user.





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3) Intelligence/ATR. 4) Mobility/Projection. 7) Fire Power.



Innovation through individual equipment.

PXE aims at bridging the gap between the tech-rich tools of the modern operator and the individual equipment and accessories used to carry them, still based on decades old solutions, by using innovative designs and materials.

Individual equipment and accessories

Through equipment, accessories, and mounting solutions and interfaces backed by a lifetime warranty, our products allow the operator to lighten his load and better its ergonomics.

- Originally intended for handcuff keys, CROKYD and its 4g / 0,14oz makes securing any light critical equipment (400g / 14oz max) anywhere on the gear or clothes possible ;
- BELTAPTOR enables mounting and height adjustment of PALS / Molle and other pouches on all types of belts, even over belt loops, with unsurpassed strength-to-weight ratio and features : auto-lock, lanyard-ready, makeshift mounting options ;
- MEDICOR is both a light, compact, and swift pouch intended for medical purposes and suitable for other specialized needs ;
- AREC offers positive retention for almost all types of rifle mags in open-top pouches, regardless of caliber or accessories mounted ;
- DEFAM will allow safe casing ejection for Famas users in french Gendarmerie and Garde Nationale units.

All those products have been tested and / or are in use by individuals in several both regular and special french units.

Multi-spectral camouflage patterns

Be it CAPADE® or other patterns, camouflages developed by PXE are innovative by design and by purpose: relying on the latest researches on humans, animals and sensors vision, they offer unprecedented performance in a wide spectrum of environments and situations. Moreover, our R&D capabilities allow us to design tailored patterns for specific needs, let it be for uniforms, vehicles or infrastructures.

Specialized custom service

A premiere in France, our specialized custom service for individuals or small units equipment can bring simple as well as complex projects to life in short delays, notably when hybrid manufacturing is the solution to the user's needs. Custom hardware, accessories, equipment, from the design to the making: the user names it, we do it.

All our products are made in France or in Europe.



PHOTONIS

3) Intelligence/ATR. 4) Mobility/Projection. 5) Protection.



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Photonis Night Vision is the world leader in the design and manufacturing of state-of-the-art Image Intensifier Tubes for military, space and commercial applications.

Day-to-Night Digital Vision in Colour

NOCTURN camera is a rugged low-light camera core that features high-definition resolution, high sensitivity and high dynamic range with low power consumption. It provides colour or monochrome real-time imaging capabilities - from daylight to bright starlight - in the visible and near infrared spectrum. Its small size, makes this camera core ideal for integration into aerial, mobile and hand-held surveillance systems.

Developed in partnership with Rochester Precision Optics, The CMOS Night Observation Device (CNOD) is a versatile digital high definition sight that enables its operator to see during the day as well as in low light (night) with high contrast and high resolution. Two functions in a single device at the fraction of the cost of similar systems currently on the market. Use as clip-on or stand alone weapon sight for 24/7 high definition operation.

Developed in partnership with BERTIN, FusionSight® is the world-first compact monocular that combines a colour low light sensor with a thermal image sensor. When combined, these sensors enhance situational awareness and provide users with the option of using a thermal image, colour optical image or a smart fused thermal and full colour image, that can also be recorded.

EBNOCTURN Camera is the most powerful digital night vision camera made for military night vision, weapon sights, helmet mounted vision and precision targeting. Features of this camera are: ultra low light level down to 10 µlx, high frame rate, no latency, outstanding image quality and optimized resolution for mobility application.

4G Image Intensifier Tube

4G image intensifier tube offers extended bandwidth sensitivity (from 400-1100 nm) and improved sensitivity to 100µlx (Night Level 6).

These innovations provide a 40% increase in detection, recognition, and identification (DRI) over previous tubes. 4G is a unique intensifier well-suited for multi-mission night vision; ideal for use in the darkest mission conditions including deep mountain valleys and jungle terrain.

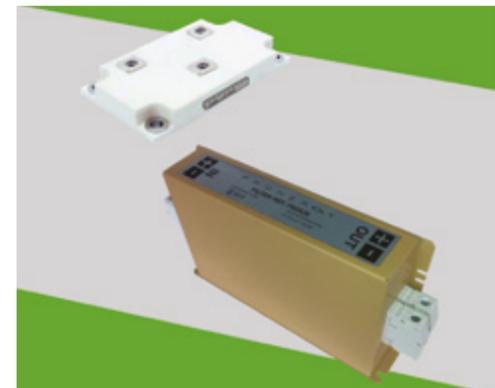
With 4G, Photonis provides Special Forces with the best performance Image Intensifier Tube available today. These fully-4G compliant tubes offer superior resolution, crystal-clear images under any lighting condition and when CONOPS require, the capability to see beyond 1000nm, providing operators with an unfair advantage.



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2) Transmissions. 3) Intelligence/ATR. 4) Mobility/Projection.



Custom power electronics and battery.

PRONERGY brings its experience by design and manufacture specific equipment for harsh applications.

Rugged Military Active and Passive Filters

Active filter of protection on networks 28VDC military applications. Allows the compatibility of equipment not adapted to the MIL-STD-1275 (surges and spikes), not answering the electromagnetic standards of immunity. Big reliability. Work of -40°C in +85°C. Passive filter to answer the MIL-STD-461 (EMC).

Portable Mobile Charging Station

Rugged suitcase to have a reliable source of energy always at hand aimed and at destination of heavy military materials. PRONERGY brings its master's degree of the control of load and the discharge of every types of batteries and supracondensers to propose assistance customs equipments at the operational users.



Rugged Military Power Converters/Inverters

Electrical converter DC-DC 600W for embedded applications vehicles, fully waterproof IP65, shedding battery, dual-stage filter for hardening on HF and VHF band, MIL-STD-1275.

Electrical inverter DC / AC for applications embedded, completely seal. Option : Circuit breaker DDR, schuko power socket, D38999,...

Equipments Compatibles MIL-STD-461 (Electromagnetic Compatibility EMC), MIL-STD-810 (Environmental Conditions), GAM EG 13, STANAG 4370 and 2895.



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5) Protection.



Personal protection expert.

With 30 years of solid experience, PROTECOP has established itself as a recognized expert in the field of personal protection for crowd control and ballistics. Equipped with the latest technology, PROTECOP develops exclusive equipments thanks to its integrated services: R&D, design department, prototype workshop, etc. Protecop possesses its own production tool, meaning it can control its products from design to manufacture. Recognized for its know-how, PROTECOP exports its equipments in nearly 70 countries worldwide.

Tailor-made ballistic solutions

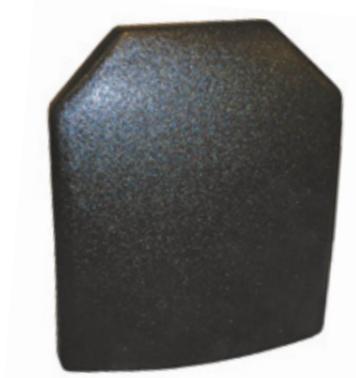
PROTECOP ballistic solutions meet the requirements of individual forces on a case-by-case basis and provide total traceability.

Plate carrier with quick release system

The latest in the ballistic range, the plate carrier, which equips the French Police and Gendarmerie, offers a maximum mobility thanks to its weight (8 kg) and design while ensuring a maximum protection.

Its Stand Alone plates stop the following ammunitions:

- 1 shot 7.62X54 RAPI B32
- 1 shot 300 WM RWS TUG
- 2 shots 30.06 MZAP



Bullet proof vest level IIIA / anti-slash

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3) Intelligence/ATR.



2) Transmissions. 3) Intelligence/ATR. 5) Protection. 6) Breaking-in and covert entry.
7) Fire Power. 9) Training.

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Multi-mission, tactical UAV.

The Risk&Co Group offers its OSB17 multi-mission, intelligence UAV solution. The OSB17 solution allows for intelligence collection mission to be carried out without unnecessarily exposing ground personnel. This solution, based on a field-proven (more than 60 units operational worldwide) and robust drone carrier, offers:

- either an optronic observation payload (day/night-time sensor),
- or an IMSI CATCHER, working on 2G-3G and 4G technologies,
- or a LIDAR radar.

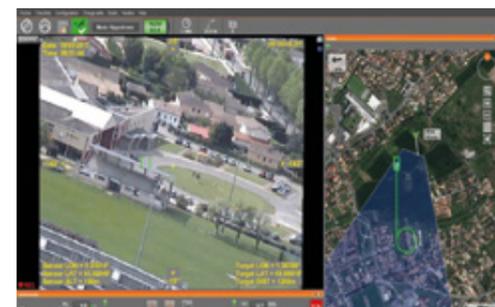
The OSB17 is able to operate with complete discretion (electric engine), both during day and night-time. Its encrypted radio link (AES 256) in the 4.4 GHz to 5 GHz band allows for operations to be carried out up to 50 KM from the ground station. The 3.5 Mbps radio link is shared between flight controls and payload operations. The OSB 17 weighs 15 Kg in working order, with a maximum payload capacity of 4 Kg.

A radio balance control software is included with the solution, in order to facilitate upstream operational study. Taking off is performed by means of a dismountable catapult, weighing 12 Kg in total.

The optronic load possesses a day-time sensor, with a 36X zoom for HD720p resolution and a LWIR 640X480IR sensor. The sensor has a «click and track» function for detecting and tracking moving objects. Metadata are STANAG-4609 and STANAG-4586 compatible for commands.

In addition to an optronic charge, the Risk&Co Group also offers a 2 cells IMSI Catcher, working on 2G-3G and 4G technologies. The IMSI Catcher and its operating software are specially designed to be integrated into the drone vector, with remote ground operation. The operating software provides all the functionalities of the IMSI Catcher (Scanning, Catching, Finding Direction) in real time. The hardware module of the IMSI CATCHER is based on SDR (Software-Defined Radio) technology, providing flexibility of scalability and adaptation to new channels that can be used by mobile operators.

The solution design proposes an IMSI Catcher that can cover different operational needs (airborne, land use).



Quality, performance & professionalism have been RIVOLIER's operative words since its creation in 1830.

Rivolier has positioned itself to respond to complex and diversified market's. By providing integrated solutions adapted to the Special Forces environment, we ensure the interoperability of forces and cover the entire spectrum of tactical and operational engagements.

Our response focuses on the following specific themes:

- Intelligence / Direct action / Support / Training / Instruction

Five fields of expertise

- **Equipment:** a carefully selected range of products, to meet your mission's needs successfully. Dealing with operating conditions is a key factor for success. Urban or rural areas, dry or humid climate are only a few of the parameters we help you handle.
- **IED-EOD:** "Problems are best to be solved before they surge" A threat is best kept away by being appropriately equipped beforehand. According to the importance of the threat, our role is also to help you define an appropriate response.
- **Intervention:** we offer a full spectrum of means to immediately counter any aggressive actions. To guarantee the success of your different operations, RIVOLIER offers a wide range of weapons, optics, optronics, ammunitions and ballistic protection using the most recent technologies.
- **New technologies:** during missions, operators need to communicate to report, prove, demonstrate and interact. Tapping equipment, jammers, and telecommunication devices have to be even more efficient, as reduced and lightweight as possible, with quick and easy handling and multiple functions. It is vital to be able to counter the same equipments used by the other side...
- **Training:** a staff made of highly experienced operators coming mainly from SF units provides a technical training in connection with the equipment sold.



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9) Training.



GLADIATOR - Modular system

Gladiator™ is the equipment used for «LIVE» simulation training of special forces, armed forces and police. It allows training from combat group level up to battle group level. It allows fire and movement to be practiced in a wide variety of situations, in both open terrain and urban areas, without using real ammunition.

Gladiator™ offers a diverse range of training benefits, ease of use and a comfortable and robust design. The harness is adaptable to different training scenarios, and customer needs. The main features of Gladiator™ are:

- Simulation of laser shots
- Simulation of close but off target shots
- Management of status and position
- Differentiation of injury levels
- Radio reception simulation of attacks (for weapons with a blast radius)
- Configuration with and without bulletproof vest

Gladiator™ can be used in a variety of situations; Typical scenarios are:

- Encounter battle
- Neutralization battle
- Building search
- Hostage rescue
- Police operations such as checkpoint, access control, riot control
- Peacekeeping Operations / Military Operations Other Than War

R-MIT - Target Robot

RMIT is a robotized target holder used for shooting range style training but with realistic dynamic conditions, it can be used with small and medium calibers, and in both open and urban areas. RMIT offers a high level of training benefit, while also being easy to use and having a robust and modular design.

The main features of RMIT are:

- Munition detection of 5.56mm cal. Up to 7.62mm cal. (STANAG 4569 KE Level 1)
- Ballistic protection up to 7.62mm x 51
- Manual control or automatic steering (a path can be learned and replayed)
- Set and control speed in real time from 0 to 15 km/h

The device can be operated from up to 3km away, and all tactical data such as the RMIT's running position, speed, and detected impacts are sent in real time to the instructor. RUAG firing range training solutions (infantry target holder, armor target holder and target holder robotized) can be involved in the same exercise supervised by one instructor.



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4) Mobility/Projection. 5) Protection. 6) Breaking-in and covert entry. 8) CBRN.



Worldwide leader in flexible blast containment against IEDs and operational solutions for transportation of explosive, detonators, det cord, grenades... Also offering CBRNe products.

Ground Bomb Killer (GBK)

Blast containment crown to protect forces in case of any suspicious item on the way to the target. Fast and easy installation. Avoid the lateral effects of the explosion and retain inside the crown all kinds of fragmentation. Canalize upwards blast wave. Efficiency and authorizing the following of the mission. NATO Stock Number.

Explosive Transportation Equipment (ETE)

The unique tool where you can mix inside grenades (offensive and defensive), detonators, explosive, det cord, even sticks. There is no initiation between boxes inside the drawers. Customization of the drawer on request. Transportation by land, air, sea. NATO Stock Number.

Dirty Bomb Killer (DBK)

Containment for chemical or Biological threat inside a confined area. Allows Hazmat teams to safely extracting the threat for neutralization outside while preventing the dispersal of the toxic agent. Also Hazmat team will be able to scan the suspicious item inside the DBK with portable X-Ray. NATO Stock Number

Sema World has also security solutions for Airlines, Mailrooms, Check Points, Solution against RPG7, Suicide Bomber, ...

- Low radiated power – poses no health risks
- Low power consumption
- Compact radar design with SWaP-C advantages



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4) Mobility/Projection. 9) Training.



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.

New range: Atlas UC hydraulic winches are nowadays most compact recovery winches dedicated to vehicle pulling application. They are able to be integrated in the most complex and fully equipped vehicles.

This product is available from 7 tons to 28 tons pulling capacity.

Their modular frame allows them to be integrated between side members as well as at the rear of cabin. Motor, brake and gear technologies have been chosen as simple, rugged and proven as possible to perfectly match the military demanding environment requirements. Therefore, Atlas UC hydraulic winches have the lowest maintenance in operational conditions costs on the market.

9) Training.



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STERELA is the French leader for the manufacturing of live fire training systems for armed forces and law enforcement agencies.

Live fire training

STERELA offers solutions to cover all training cycles and programs depending on the environment. These include:

- Indoor shooting ranges | Outdoor shooting ranges & courses |
- Urban shooting

Indoor shooting range training

STERELA solutions for indoor shooting ranges are designed for police forces, customs or prison administrations in addition to private companies authorized to carry fire arms. Training in shooting over short distances develops and tests rapidity of analysis, accuracy and reflexes while giving practice in using handguns and small arms.

Outdoor shooting range & course training

Solutions for outdoor shooting range and course training are designed for infantry regiments, special forces, commando or anti-terrorist units and anti-crime brigades. Shooting training while moving enables team members to develop their skills in terrain analysis, reactions, accuracy and group communication and coordination. Supported by simulators with background noise, pyrotechnic and blast effects simulating hostile engagement, STERELA outdoor shooting range solutions help prepare and develop unit's operational reflexes.

Urban shooting training

STERELA solutions for urban shooting and shooting house training sessions are designed for special forces, commando or anti-terrorist units and anti-crime brigades in urban environments.

Urban combat training develops stress control, discernment, speed, positioning and coordination of special force members. Combined with a range of sensors, targets may appear automatically when somebody is detected, making the training session dynamic, interactive and realistic. Adding simulators (sound and visual battle effects), operational units and teams become hardened to urban combat context.



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5) Protection. 7) Fire Power.



3) Intelligence/ATR.



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Design, Manufacturer and Distribution.

SUNROCK, French manufacturer of the Night Reaper Crew Served Weapon Light, also acts as a project leader, sells and markets equipment in collaboration with well known and reputable manufacturing facilities such as Verseidag Ballistic Protection based in Finland, Tencate Advanced Armor based in France, Theon Sensor, manufacturer of Night vision systems based in Greece, HS Produkt, one of the leader weapon manufacturing based in Croatia and Kriss, the Kriss Vector manufacturer based in the USA.

Innovation

SUNROCK excels in providing very innovative equipment for special forces and MOD. Based on the feedback of the operators, we improve as much as possible each and every product that we provide to our customer. Our main concern is to satisfy the operators by providing the most efficient equipment.

SUNROCK supplies the French military, the French special forces and the French Police since 2007 but also provides NATO countries through the NSPA organisation and exports more and more to foreign countries.

In 2017, SUNROCK has developed together with its partner Sestan-Busch in Croatia the new ballistic helmet for the French Police.

In 2016, SUNROCK has improved its Night Reaper CSWL dedicated to the army, and has developed very innovative products in collaboration with Verseidag Ballistic Protection such as the Quick Release System Plate Carrier, the safety station, the Assault Soft Shield for the French special forces and law enforcement teams. SUNROCK also propose the innovative B4U Camo, developed through the DGA program «mission d'innovation participative» for intelligence units.

SUNROCK also distributes the Kriss Vector in France and the famous and innovative handguns from HS Produkt which were awarded «best handgun of the year» in the USA in 2003, 2006, 2009 and 2013.

Customer oriented:

- Since 2016, SUNROCK is the leader provider of ballistic protections to the French Home Office.
- SUNROCK has always been customer oriented. Sunrock benefits from a high credibility among its customer by respecting its commitments: Delivery timeline, customer satisfaction, innovation and high quality products.
- SUNROCK tries to identify clearly the specific needs of its customers in order to develop and propose the most suitable product for them.
- SUNROCK also manage the after sale service for its customers.



TRACKER 120



DVF 2000 VT / ALIACA

The mini-UAV expert within Airbus.

Expert in mini-UAV since 1996, Survey Copter became an Airbus subsidiary in 2011. Survey Copter is offering a wide range of products ideally adapted to perform ISR mission, convoy protection or monitoring ground missions for military, special forces and also for specific civil applications.

Tracker 120 is a discreet and easy to operate solution. Hand-launched and equipped with 2 electric motors, the Tracker 120 has a high level of visual and acoustic discretion. Carried as a backpack, Tracker 120 is qualified to operate in severe environment and has 1.5 hours flight endurance. Deployed in various theatres by the French Army, Tracker 120 has been qualified by French DGA and obtained a **type certificate**. In addition, Tracker 120 has been sold to Middle East Special Forces, to Austrian Ministry of Defense and to other customers around the world. In total, more than 300 systems have been produced.

With 3 hours flight endurance, the **DVF 2000 VT / Aliaca** provides a 360° panoramic coverage thanks to the positioning of its vertical turret. DVF2000 VT / Aliaca can perform intelligence missions from 10 to 50 km range. Catapult launched, DVF2000 VT / Aliaca system is deployed in less than 10 minutes by 2 operators only. DVF 2000 VT / Aliaca in its previous version has been deployed by Special Forces worldwide and is perfectly adapted for maritime missions using a dedicated net landing solution.

With its thermal propulsion, the **DVF 2000 ER** can fly continuously for up to 8 hours. Launched by a pneumatic catapult, DVF 2000 ER is perfectly adapted to long lasting missions and is qualified to operate in very severe environmental conditions.

All our systems are equipped with an **E0/IR gyro-stabilized turret (T120)**. This turret supplies perfectly stabilized, high quality images in real time which means that intelligence missions can be carried out by day or night. Some other payloads can be proposed with **DVF 2000 ER**.



DVF 2000 ER

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3) Intelligence/ATR.



Ground and airborne missions

NOMAD-DIGIC - Recce imagery collection, analysis and dissemination system.

In current operations, and in addition to fulfilling traditional missions, modern Special Forces units need to be as autonomous as possible in terms of gathering information, processing data, producing actionable intelligence. Meanwhile, these units must deal with many constrains linked to equipment heaviness, operators' availability, technological complexity versus the added value of the out-put supporting the decision-making process.

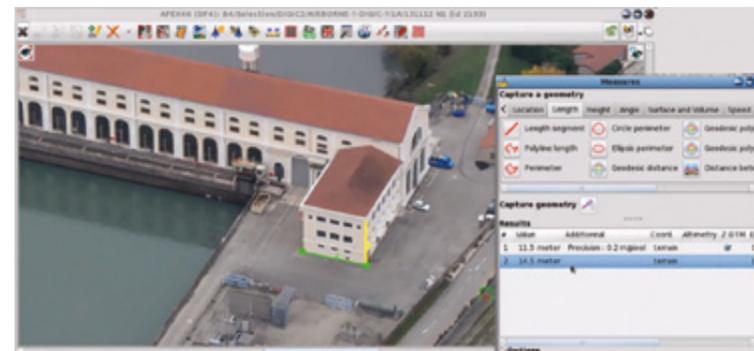
Consequently, NOMAD-DIGIC is designed to cope with Special Forces RECCE missions. It is a lightweight solution allowing flexible use on the move, on the ground or in the air. It is suitable for military intelligence missions as well as homeland security tasks.

Designed for highly tactical operations, Nomad-Digic is a system enabling to acquire fully geo-located pictures, quickly analyze imagery, 3D model targets, present and disseminate image of outsides of buildings, with a limited set of data.

- IMINT sensor autonomy DIGIC (Digital and Geo-referenced Image Catcher), enabling image acquisition and geo-coding, based on a professional digital camera, instrumented with mini INS, GPS and range-finder
- Tactical UAVs, optical thermal imager and other sensors compliance
- Real-time sensor feeds, quick analysis and dissemination, STANAG 4609: FMV support
- Short-loop missions support short-loop missions including Close Air Support, radio messaging, enabling real-time view of targets, Common Operational Picture sharing, extraction of targets location with high accuracy
- This MINDS nomadic rugged computer has built-in downsized IMINT chain, including live video display and targets geo-locating, inter-visibility, mission preparation, mission support fitted to most ground and special forces requirements
- Sensor feeds include tactical UAVs, optical thermal imager and other sensors



Mission debriefing and imagery analysis



Geometry analysis tools: location, angle and perspective, length, height, surface and volume, stereoscopic view, 3D modeling...



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7) Fire Power.



French manufacturer of holsters for handguns, chargers and accessories.

TRB Holsters is a French company based near Paris, in Chanteloup-les-Vignes (78)

Our team of craftsmen is specialized in the design of Holsters and Pouches for Weapons and accessories. Our experience in contact with our customers whether the Army, Police or combat sports trainers, shooting or close protection, contractors, special intervention units, guarantee our serious in the shaping of our products.

Among our many users Elite Units operators and Special Units.

We support you in your custom needs reliable holsters and carries, and useful to your work.

Made in France + Worldwide shipping and Life Guarantee Holsters

More information www.trb-holsters.com



GICAT (French Land and Air-land Defence and Security Industry Association) is a professional organization established in 1978 grouping over 270 French companies, including the main industrial prime contractors, equipment suppliers, system integrators and a network of dynamic and innovative SMEs.

These companies, which have a diverse range of activities (industrial contractors, consultancy and service providers, as well as clusters and research institutes), offer the full range of skill and know-how adapted to the operational requirements of the land and Air-land Defence and Security sector.

GICAT's international development is based on the Eurosatory international trade show, organized by its subsidiary COGES, and mainstream defence and/or security trade shows abroad.

GICAT 

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