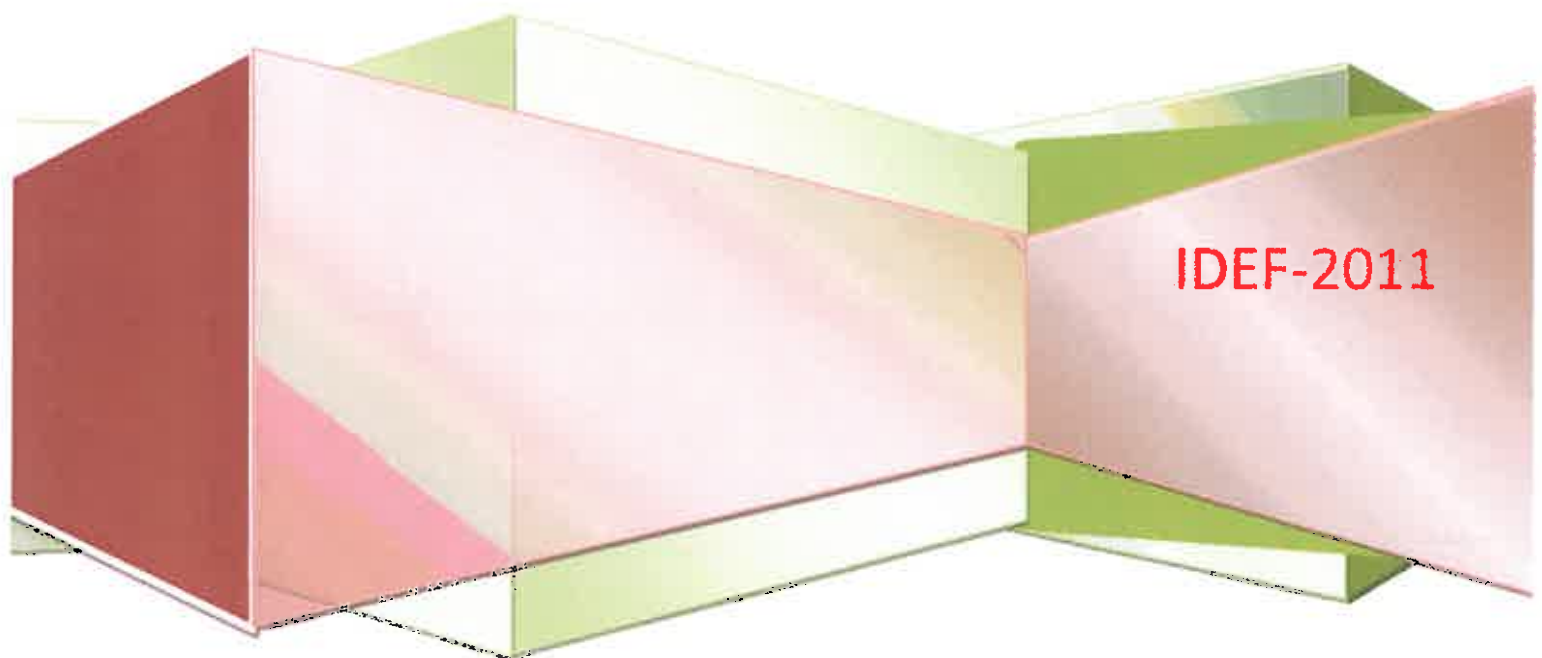


GICAT

FRENCH PAVILION

PRESS KIT

WWW.GICAT.COM



PRESENTATION



GICAT is a professional group bringing together French companies in land and air land defence and security.

The land and air land defence and security industries group (GICAT) currently has almost 200 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 – possess the skills and know-how adapted to the needs of the sector, from design to production and the management of equipment support and removal from service.

This highly specific set of skills constitutes the technological and industrial foundation of the sector.

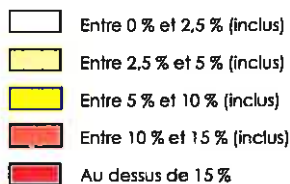
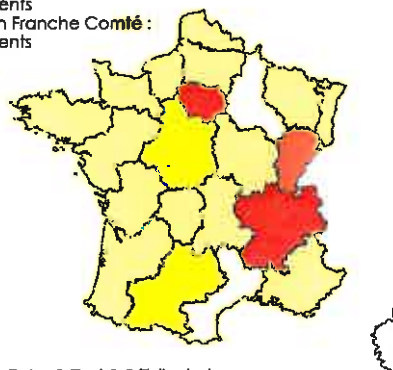
GICAT's primary goal is to federate the offering of the entire sector with a view to consolidating in the long term the defence and security industrial and technological base. Towards this goal, the group provides promotion for the products and services of its members. Its subsidiary COGES (Commissariat Général aux Expositions et aux Salons), which is in charge of organising the EUROSATORY exhibition, also federates the participation of French companies in several defence exhibitions outside France.

Field distribution

- . Air-Land (UAV, Helicopters, missiles)
- . Engineer works crossing - terrain clearance
- . Weapons and Ammunitions
- . Professional non profit organization
- . Electronics
- . Electronics, security, energy
- . Equipment, safety equipment and textile
- . Battlefield management CAISR
- . IT
- . Laboratory, research institute
- . Hydraulic, mecanic, hydraulic,hardened glass
- . Tanks, Vehicle, engine, tyres
- . NRBC
- . Optic and optronic
- . Robotic
- . Services (consultancy and assistance, dismantling and remediation, logistic)
- . Simulation (simulators and supports)

Geographical distribution

Pour l'île de France :
72 membres
La Région Rhône Alpes :
47 adhérents
La Région Franche Comté :
25 adhérents



Encourage reflection within the sector and represent the interests of the profession

The land defence and security industries group (GICAT) pursues a dynamic policy of cooperation in relation to the main authorities in contact with the profession.

Nationally, GICAT is in contact with top-level political and government authorities, the Army (EMAT, SIMMT, SMITER, STAT), the armed forces chief of staff, the DGA the procurement branch of the French MoD and the security forces. It has entered into a partnership with the French Army based on strong convergence of interests between designers, manufacturers and users of land and air land equipment.

This dialogue extends to the various GICAT working groups.

Regionally, GICAT has developed a number of partnerships with chambers of industry and commerce (Versailles Val d'Oise, Lyon).



On a European and international level, GICAT plays an active role within the European structures that elaborate the position of the European defence industry, and NATO (NIAG, NAMSA, NC3A). It actively participates via CIDEF (the Council of French Defence Industries) in the reflections of the AeroSpace and Defence Industries Association of Europe (ASD), which represents the European defence industry. In this body, it constitutes one of the founding pillars of the European Land Defence Industry Group through which it maintains exchanges with the European Defence Agency.

Satisfy the needs of companies in the sector

Alongside its traditional export support missions, GICAT proposes a range of services specially adapted to companies in the sector wishing to stimulate their network and boost their communication.

To achieve this, GICAT proposes a range of services available to every member:

Promoting companies and products on the Web site and communication media, press clippings, newsletters, meetings, conferences on various topics, introductions to decision-makers and prime contractors, access to sector cartography, partnership with defence publications, etc.

The group has made a particular effort to develop its services for SMEs, which account 90% of the group's members. GICAT's SME working group is specifically focused on the needs and expectations of SMEs in the sector. GICAT has developed several services adapted to SMEs, such as export support, access to defence and security markets and strategic information and, in particular, introductions to the main prime contractors. Since 2009, the SMEs have had a permanent representative on the GICAT board.



Promote French capabilities and boost exports

One of GICAT's primary missions is to promote French capabilities: promotion of capabilities, and support for companies on international markets.

GICAT offers its members special conditions for international activities. A specific package (co-exhibitor, subsidy) is proposed to GICAT members, particularly SMEs, to ensure that they are represented at defence and security exhibitions in France and internationally.

Every two years, GICAT invites members to attend Eurosatory, the leading land defence and security exhibition. GICAT also proposes international support (preparation of country information packages, introduction to Military attachés...).

Organisation of the association

The Board, comprising representatives of member companies, determines the group's strategic orientations. The GICAT General Delegation ensures the operational implementation, aided by working groups or specialised commissions. The work of the General Delegation is structured around:

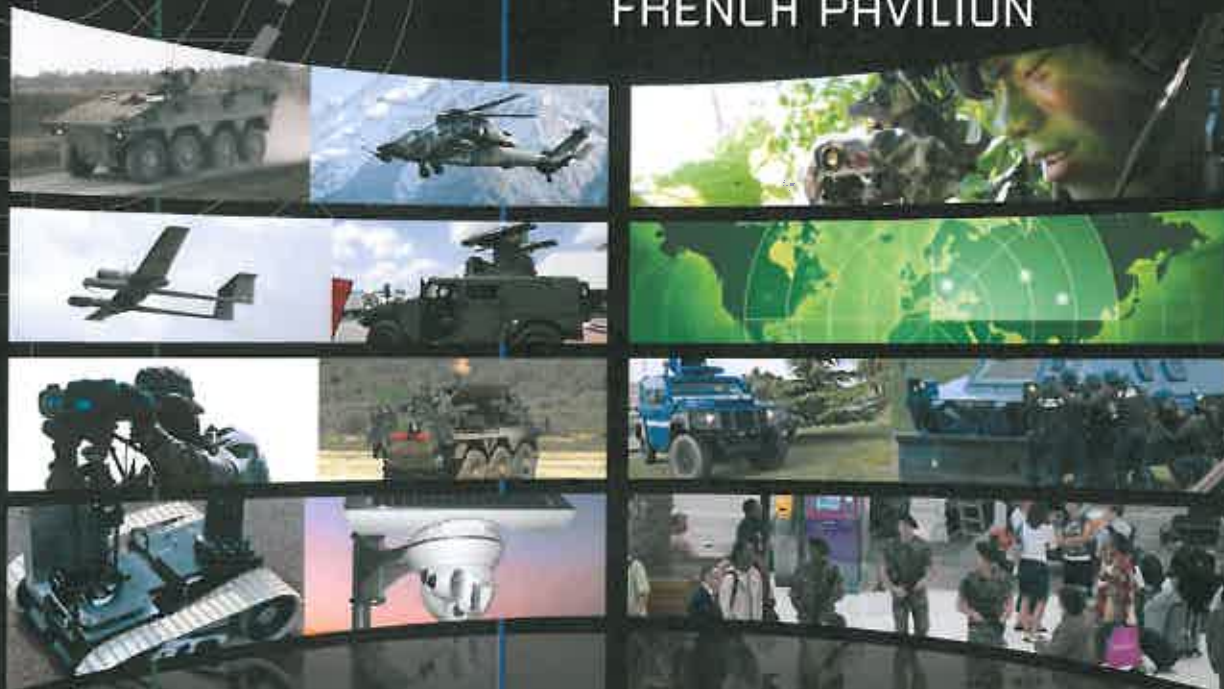
- French and Security Affairs
- International Affairs
- Communication
- Economic Studies

GICAT

French Land defense and Security Industry

at IDEF - 10 - 13 May, 2011

FRENCH PAVILION



Opportunity to meet French companies such as:

01dB-Metravib

ASB

Axon Cable

Deschamps

ELNO

EURENCO

Eurosatory 2012

Gaci

Gicat

IXMOTION

Lacroix Defense and security

Nexter Mechanics

Nexter Electronics

Nicomatic

Proengin

Renk France

Roxel

Sofradir

Saint Freres confection

Visit us on GICAT's **Booth 242F**

www.gicat.com

French Pavilion – HALL 2

01dB-Metravib – 242F

ASB – 242F

AXON CABLE – 242B

DESCHAMPS – 242E

ELNO -243B

EURENCO – 242F

EUROSATORY 2012 -242G

GACI – 242D

GICAT- 242F

IXMOTION – 243C

LACROIX DEFENCE & SECURITY – 242C

NEXTER ELECTRONICS -242I

NEXTER MECHANICS -242I

NICOMATIC – 242J

PROENGIN – 242K

RENK FRANCE - 242F

ROXEL - 242L

SAINT FRERES CONFECTION - 242H

SOFRADIR - 242A

01dB-Metravib



01dB-Metravib is the worldwide leader for **Gunshot Detection Systems (GDS)**. These **Combat Proven** systems, allow detection and accurate localisation of small & medium calibres shots, RPGs and mortars rounds. This product range includes:

- **PILARw Ground Version** for Base Protection, that can be coupled with **PIVOT**, an observation system,
- **PILARw Vehicle Version** for any type of Infantry Vehicle (wheeled or tracked) for Convoy and VIP protection,
- **PILARw Soldier Version**, with vest or gun mounted sensors
- **PILARw Helicopter Version** for real time warning of the crew in case of gunshot attack.

MSPO 2010 will be the opportunity to introduce the latest configurations of all PILARw versions. Especially the modular **PILARw Vehicle Version** with GPS information and calibre identification designed for integration and coupling with remote weapon station as well as Stand Alone configuration.

CONTACT

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ASB AEROSPATIALE BATTERIES

ASB Aerospatiale Batteries is a world leading company which specialises in the research, design and manufacture of **Thermal Batteries**, with cutting edge technologies and enhanced reliability performance. ASB products are recognized worldwide for their excellence and optimization to the customer requirements. Due to their inherent technological advantages, our thermal batteries are a factor in the success of all current major aeronautical, space and defence projects across the world.



Small battery for smart artillery ammunition



Thermal battery for fighter aircraft EPS

Thermal Batteries are primary lithium batteries, which are totally inert prior to activation. They are therefore totally maintenance free over a very long storage life, and are the only power sources able to operate reliably under very harsh environments

This includes extreme low and high temperatures, pressures, EMI, acceleration, etc. Thermal Batteries represent ideal power sources for electronically operated guidance systems in missiles and rockets, artillery ammunitions, underwater craft, land, sea and air defence systems, as well as emergency power supplies for aeronautics and subsea systems.

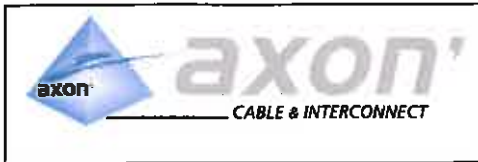
Thermal Batteries are custom designed to meet the specific requirements, with appropriate brackets & connectors configuration. They are compatible with both pulse and steady state load demands and can provide several output voltages from a one battery. ASB is at the forefront of thermal battery design and manufacturing innovation, continuously optimizing packaging to provide the same capacity in ever smaller volumes.

Our participation to the IDEF 2011 will be the opportunity to exhibit most recent products including the "smart batteries" dedicated to the artillery shelves applications, the range of batteries for guided rocket applications, as well as, on the other extreme of the volume range, high power solutions for Emergency Power Supply for aircrafts.

About us ASB Aerospatiale Batteries, a Saft and EADS Company, has plants in France, in Scotland with its subsidiary MSB (Missile and Space Batteries), and in the USA with its new company ATB Inc (Advanced Thermal Batteries). For more information, visit www.asb-group.com www.atb-inc.com.

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www.asb-group.com



AXON'CABLE

AXON'CABLE design and manufacture innovative cables and interconnect systems for severe environment such as:

-MIL-STD-1553 DATABUS SYSTEMS for reliable data transmission: AXON' harness is 30% lighter with AWG 26 cables and size 12 contacts.

-ACC COUPLER, dismountable and easy to use: the cabling coupler has all advantages of both in-line and dismountable coupler.

-CUSTOM-DESIGNED CIRCULAR, RECTANGULAR MICRO-D CONNECTORS AND HARNESSSES for severe environments : PCB connectors and harnesses in both metal and plastic versions, RF combo Micro-D hybrid connectors to route power and RF signals for frequencies up to 10 GHz.

-HIGH DATA RATE AND A-PAIR® TECHNOLOGY : high speed 10 Gbits/s Ethernet connection with full mechanical, EMI and environmental protection.

-MICROWAVE COAXIAL ASSEMBLIES UP TO 40 GHz : low loss microwave coaxial assemblies from 1 to 40 GHz, 30% weight saving with lighter coaxial cables compared to former aeronautics WN standard.

About us The AXON' group specialise in designing and manufacturing high tech conductors, electronic cables and interconnect solutions for markets such as aeronautics, military, space, oil exploration, consumer electronics, telecommunications, computer, automotive and medical. The headquarters of company is situated in Montmirail in France (100 km east of Paris) and employs 1500 staff world-wide in 10 subsidiaries in Europe, America and Asia. Its consolidated turnover amounts to 92 million € in 2010. 60 % of the sales are achieved in export.



Contact

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World Leader in tactical Mobility

Deschamps was founded in 1860 and initially specialised in the production of high value woven technical fabrics. Combining tradition and innovation, the Company is now a world leader in ground reinforcement matting systems and a major designer for light crossing systems. Deschamps' products satisfy stringent requirements in terms of low weight and easy and rapid deployment.

R&D capabilities, combined with high performance industrial facilities and diverse complementary businesses, enable Deschamps Group to design and produce sophisticated mechanical products procured by numerous defence organisations and strategic companies worldwide. Located in the south west of France and in New Jersey (USA), global export has remained at the heart of strategic development for the Company, resulting in relevant reactivity and adaptability to meet the needs of foreign markets.

MAIN ACTIVITIES

Manufacturing of Mobility Matting
Expedient surfacing
Bridging Systems

MAIN PRODUCTS

-GRIMAT: Ground Improvement Mat. Designed to accommodate heavy load traffic on low bearing capabilities terrains, the Ground-Access is a heavy duty and commercial-off-the-shelf (COTS) roll out mat system for supporting off road mobility requirements during expeditionary missions.

Beach Access Mat: designed to facilitate ship-to-shore movement

-Helipad: temporary helicopter landing zone, designed to reduce the hazards caused by blowing sand, dirt, snow and stones while preventing damage to either the helicopters or personnel.

-Tow-Mat: aircraft recovery mat designed for creating ground reinforcement and towing pathways for the recovery of any type of aircraft.

Traction Mat: is an Individual Vehicle Self Recovery Mat for ground mobility vehicles

Tentfloor: tent and living quarters flooring.

-FLRD/Flatrack: Deployment systems for MOBI-MAT.

MOBI-DECK: aluminium panel tentfloor.

Fast Composite Roadway (FCR): a heavy duty and commercial-off-The –Shell (COTS) roll out aluminium mat system.

In addition to its traditional ground reinforcement systems, DESCHAMPS designs and manufactures a new revolutionary bridging system: LIBRIS (Light Integrated BRIdging System). LIBRIS is a MLC 40 bridge with a 10-meter span, a 4-meter width and an autonomous implementation system, transported as a 20 feet container. This packaging has been rendered possible thanks to a patented "circular translation launching system". LIBRIS: a bridge in a box!

CONTACT

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16400 La Couronne - FRANCE



ELNO is a leading company in communication technology for severe environment. ELNO designs and manufactures intercom and field telephony systems, including audio equipment for defense as well as radio communication equipment for security.

During IDEF 2011, ELNO exhibits his latest developments such as:

- **A new Active Noise Reduction tank helmet**
- **Tactical headset for soldier using full bone conduction technology**
- **Wireless technology for audio equipment**

A New ANR helmet



ELNO's DH586 MKII Active Noise Reduction tank helmet is our second generation of communication equipment. Building on more than fifteen years of experience providing ANR tank helmet to armies, our new equipment allows crewman to improve mission effectiveness. It is generally accepted that high levels of noise are inherent in modern armored vehicles not only in tracked vehicles but also in wheeled vehicles.

The new ELNO combat vehicle crewman helmet uses proven ANR technology that increases communication capabilities by providing enhanced acoustic protection and offering talk-through functionality.

In addition to this new function this helmet offers 4 major improvements:

- *A new design of the earshells which increases the passive protection by 8 to 10 dB.*
- *The power supply range is extended enabling the ANR circuit to operate with a minimum voltage of 5 volts.*
- *The consumption of the ANR circuit is reduced by more than 50%.*
- *The stability of the ANR is improved so that the new helmet may work even if the chin strap is not securely attached.*
- *Various high ballistic shells are available to improve the protection*

As a result, the comfort of this new helmet is substantially enhanced due to the softness of the ear cushions, an easier use and the listening feature to monitor the ambient sound when necessary while limiting the sound to 85 dBA at the ear.

Tactical Headset



Elno has developed a new tactical headsets using **Sound Bone Conduction Technology for both the earphone and the microphone.**

It is intended to be used by personnel who operate in noisy environments and wants to preserve a great freedom of movement, like infantrymen, firemen and Special Forces. It leaves the user's ears free to listen to external sources of sound.



In loud background noise, the operator can wear ear plugs to protect himself, without any degradation in hearing intelligibility. Highly comfortable, they can be interfaced with all radio sets (HF, VHF, UHF) and are compatible with a broad range of equipments, including combat helmets, hoods, NBC masks.

CONTACT

Drawing on unmatched know-how and expertise in chemical synthesis and transformation of high explosives, EURENCO develops, manufactures and provides **Insensitive and High performance explosives** for Cast PBX, Melt Cast and Pressed compositions.

With more than 40 years of experience, EURENCO offers a wide range of solutions for **Air, Naval and Land Forces applications**: missile warheads, general purpose and penetrator bombs, torpedoes, underwater mines, mortar, tank and artillery shells...

IMPROVED CONVENTIONAL HIGH EXPLOSIVES



EURENCO produces high quality compositions (Comp B...) for safer use and storage, as well as a unique quality of **Insensitive RDX (I-RDX®)** and **HMX**, with the same performance but significantly lower shock sensitivity compared with regular RDX and HMX-based compositions.

EURENCO is a **favoured supplier** in improved conventional High Explosives for major Defense companies worldwide: BAE Systems, Nexter, Rheinmetall, Saab Dynamics...

INSENSITIVE COMPOSITIONS AND MUNITIONS

Nowadays, standards of warfare mandate the use of Insensitive Munitions (IM), less vulnerable to accidental or intentional stimuli. Faced with this technological challenge, and in order to meet the Armed Forces' new requirements for personnel and combat platform safety, EURENCO developed:

- **IM solutions for main charges** – such as NTO and GUDN (FOX-12) based melt-cast compositions – **and for boosters** – such as FOX-7 and TATB pressed compositions: characterized by a low sensitivity, they are considered a competitive IM solution for tank and artillery shells, with a performance matching or exceeding that of conventional explosive compositions.
- A range of **Cast PBX charges for Insensitive Munitions**, with significant advantages: increased life duration (no more cracks or exudations); safer handling (no more fatal accidents involving ammunition); low life-cycle cost (improved safety in logistics, no maintenance).



DEMOLITION EXPLOSIVES

EURENCO manufactures standard PETN and RDX-based (**C4**) plastic explosives in different packages for all types of demolition, cutting and breaching operations.

A new range, based on Cast PBX technology, provides low vulnerability, excellent thermal behaviour and enhanced performance. Selected in September 2009 as the preferred bidder by the UK Ministry of Defence, EURENCO was awarded a contract in April 2010, for the supply of the new British plastic explosive **-PE7-** which will progressively replace the former PE4.



Contact

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HALL 2 BOOTH 242 G

EUROSATORY , 2010 key figures

- 1,327 exhibitors from 54 countries,
70% International, 70% SMEs
- 30% exhibitors declare presenting
Security products

- 53,566 professional visitors from
130 countries, 49% International
- 7,157 members from armed forces
and security forces from 108
countries.

- 126 official delegations from 74
countries and European Union and
NATO representatives

- 268 operational experts and
programme directors (Eurosatory
Guests) from 36 countries

- 636 journalists from the 5
continents

- 143,600 m² of indoor and outdoor
exhibition surface

- 2010 Technology clusters:
CBRNe
Embedded electronics
High Technology subcontracting
Operational Equipment for Individuals
Day & Night vision
Operational medicine
Training and simulation
UAS-UGV

Eurosatory, the international "Land Security & Defence" exhibition, will be held from 11 to 15 June 2012 at the Paris-Nord-Villepinte exhibition centre. As the world leader in this domain, Eurosatory offers a unique opportunity for one week to **meet Defence & Security experts** from all over the world.

Eurosatory is continuously evolving, adapting to the transformations that are increasingly leading to the **integration of Defence & Security capabilities**. This worldwide trend can be seen at state level in threat prevention and response organisations, as well as in the design and manufacture of the products and systems promoted by industry. These products, which are often dual-use, are also increasingly relevant to the security of the private sectors of industry and the economy.

Through its One-to-One Business Meetings, strategic consultancy service, organisation of VIP visits and its system for connecting exhibitors and visitors, **Eurosatory gives priority to business** in order to open up the world market to exhibitors, whether they be major players or SMEs. The exceptional return rates among exhibitors (69%) and visitors (50%) confirm Eurosatory as a worldwide reference in its domain and a business accelerator.

Eurosatory is also a **worldwide focal point for technology and innovation**, as is demonstrated by the 350 new Defence & Security products and systems unveiled at the previous edition. Live demonstrations provide dynamic presentations of vehicle and system performance.

Finally, Eurosatory is establishing itself as a **forum to prepare a safer world tomorrow** through numerous conferences organised by GICAT, various government institutions, international think tanks and exhibitors.

2012
EUROSATORY
LAND SECURITY & DEFENCE
11 - 15 JUNE 2012 / PARIS

Contact

EUROSATORY - COGES

Daphné LEPETIT Communication and Public Relations Manager

d.lepetit@eurosatory.com

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www.eurosatory.com



Since its birth almost twenty years ago, GACI is serving the aerospace and defense industry to provide them with the relevant technologies and solutions according to their requirements.

Key players being focused in their core competences, GACI is offering a complete range of services and innovative products based on state of the art technology in the fields of embedded and rugged systems for aerospace, land vehicles and naval applications.

Establishing close relationship with our customers, we are able to achieve complex projects including R&D, design, prototyping, qualification, production and life cycle management. The strong skills of our design team, project managers, after sales and support engineers, and our teaming with carefully selected key supplier of technology allow us to deliver on-time performances.

Our activities: Integration of COTS boards and home designed boards fitted into a tailored enclosure to offer the relevant hardware platform for your application.

We are active in the fields of Rugged computers, Switches, servers, consoles, Communication and gateways, RF front end, Instrumentation and test benches, Rack integration for most demanding applications :

- *Combat vehicles, vetronics*
- *Missile launching pad, fire control, turret control, firing management systems*
- *ELINT / COMINT on-board aircraft, sea vessels or land vehicles, or fixed stations*
- *Naval combat and mission computer interfaces*
- *Aircraft and engine testing*
- *Optical system management computer*



About us *GACI is a French privately owned company located in the suburb of Paris (France), with convenient access to domestic and international airport. Its 35 highly motivated staff, modern facility and solid capital structure make us a trustable partner for long term relationship*

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GICAT- French Land defense and security industry

HALL 2 BOOTH 242F

GICAT is a professional group bringing together French companies in land and air land defence and security.

The land and air land defence and security industries group (GICAT) currently has almost 200 members, 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 – possess the skills and know-how adapted to the needs of sector.

GICAT's primary goal is to federate the offering of the entire sector with a view to consolidating in the long term the DefenceTechnology and Industrial Base.

Towards this goal, the group provides promotion for the products and services of its members. GICAT is in contact with top-level government authorities, the Army and the security forces in France and abroad, through national defence industry associations. GICAT has a partnership agreement with French Army, to bring together manufacturers and users of Air-land defense equipment.

Main Missions

- **Encourage reflection within the sector**
- **Represent the interests of the profession**
- **Satisfy the needs of companies in the sector**

Every two years, GICAT invites members to attend Eurosatory, the world reference exhibition, the first international land and airland defense show

About GICAT

*The French Land Defense and Security Manufacturers Association (GICAT) represents 200 companies specializing in the design, development, manufacture, promotion and maintenance of equipment for ground forces and security. Members of GICAT achieve a turnover of **5.26 billion Euros**. GICAT, through its subsidiary COGES, organizes every even year the world reference exhibition Eurosatory, the first international land and airland defense show Find all the offers of French defense on GICAT's Booth 242F (IDEF 2011) or on the website www.gicat.com ([Download](#) the press kit).*



CONTACT

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iXMotion S.A.S.



Motion simulators and positioning systems

The company has an extensive expertise with its own multi-axis motion controller in developing advanced mechanical systems:

- Advanced positioning and rate tables, motion simulators with HWIL function and centrifuges for the full range of inertial component and system testing,
- Gyrostabilized platforms, positioners and rotators for SATCOM stations, land, vessel or UAV embedded stations, ground communication & telemetry stations.

The **EVO-Series** product line consists of highly accurate motion simulators. These tables can truly be described as revolutionary thanks to their design, technical

performance and their compactness.

The **DMS-Series** Dynamic Motion Simulators product line is dedicated to the simulation of the motions of vehicles & targets; it is a combination of two to several motion simulators (Flight Motion Simulator and Target Motion Simulator) controlled by the same system management, also called Hardware In the Loop (HWIL) systems.

The **POS-Series** product line concerns a range of multi-axis modular positioners equipped with a Modular Control Unit calculator, convenient for every kind of sensor integration and offering development of dedicated applications.

The **Pan&Tilt-Series** product line consists of accurate motion on its two rotating axis, used for surveillance, detection or communication applications. This turret integrates optical, laser or antenna systems for very for land and naval applications.

Every IXMOTION high precision equipment is equipped with the ProAxe Multi-Axis controller, designed by iXMotion and integrating models of the systems it operates and because of this the user has a number of unique IXMOTION patented functions at his disposal.

About us.

iXMotion is the leading manufacturer of electrical multi-axis motion systems like Flight Motion Simulators, inertial testing equipment and ground & embedded positioners for civil and military applications.

Contact

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LACROIX DEFENCE & SECURITY

LACROIX DEFENCE & SECURITY is a worldwide leading company in the field of pyrotechnics. The group turnover in 2010 was 107 M€ for 500 employees with 50% of export sales. The company provides a wide-range of civil and military systems and ammunition.

LAND SYSTEMS

GALIX system and munitions for armored vehicles protection : enables graded responses through a wide range of terminal effects.



NAVAL COUNTERMEASURES

SEACLAD Munitions : New range of Advanced RF, Infrared, anti-laser and anti-torpedo decoys for the self-protection of all types of surface ship, deployed by a wide range of launcher systems such as SYLENA , DAGAIE NG and NGDS.

SYLENA Decoy Launcher System : an innovative light weight system, operating SEACLAD technology for the self-protection of Fast Attack / Patrol Vessels against current and future threats.

AIRBORNE COUNTERMEASURE

Advanced conventional chaff & flares : with optimised performances allowing the increase in effectiveness and permitting to load twice the quantity of flare cartridges on board fighter aircrafts.

Advanced spectral flares : that imitate aircraft signatures to defeat IR missiles equipped with detector operating in multiband IR.

Aerodynamic advanced flares : for slow platforms, transport aircraft, helicopters, equipped with dispensers enabling the flares to be dispensed forward the aircraft.



These flares are available in all types of calibre (1"X1"X8" – 1"X2"X8" – Diameters such as 19, 26, 36, 40, 55, 60 mm...) for all platforms (such as: Combat aircraft, transport aircraft, helicopter, VIP platforms).

SECURITY

HAND & PROPELLED GRENADES : wide range of terminal effects for Soldiers & Vehicles

CHOUKA, COUGAR VARIO individual launchers : Sturdy and easy to handle. break-open type grenade launcher, specific for firing all types of LACROIX - SAE ALSETEX riot control grenades.

COUGAR 6 (fixed) / COUGAR 12 (360° mobile) Multi Shots vehicle launcher : Mechanically fitted on vehicles. Designed to handle highly active tiny groups in urban areas or suburbs.

Contact

NEXTER Electronics

Within Toulouse - France, more than 130 electronics specialists contribute at the excellence reputation of Nexter group called Giat Industries in the past.



On December first 2006, Nexter Electronics becomes subsidiary of Nexter System attached by his Army's contracts, Giat industries remaining the "holding company".

Nexter Electronics is the principal actor in embedded electronic military systems and maintenance repair overhaul.

Setting with profit for the civil field:

Electronic equipments development remains as well adapted for military market as civil, dual technology. Nexter Electronics company has already proved his competence among many important firms like Airbus, CNIM,

DCNS, Dassault, Eurocopter, Safran, Thalès... Two services particularly allure external companies such as aeronautics, naval or space sectors: testability of electronics components and embedded software integration.

An effective Structure :

With subsidiarization, Nexter Electronics acquires a large flexibility with a high level capacity in maintenance, repair, and overhaul of embedded electronics equipments.

Partnership development:

To develop his engineering added value, Nexter Electronics is surrounded with specialists and leader in their field as well as reactive suppliers in agreement with the exigencies of the current market. Nexter Electronics has the competitiveness and the quality of the high technology's products firmly established to have a good future

Contact

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NICOMATIC SA

NICOMATIC is a designer and manufacturer of innovative interconnect and switching solutions for man-machine interface. The company positioned itself in defense and aerospace markets thanks to its **CMM series micro-connectors** available in 2mm pitch.

The CMM connectors enable up to 60% space saving in volume and 40% in surface over conventional solutions, they perform well under conditions of **extreme vibration, high temperatures** up to +260°C, and benefit from a mixed-layout of contacts giving the designer a large choice of configurations in one connector (low frequency, high frequency & high power contacts...). CMM micro-connectors are used in board to board, board to wire and wire to wire configurations



The products have been developed **for military on-board electronics**, both in avionics and land applications.

The company is certified ISO 9001:2008 and EN9100:2003. Among the most recent product innovations in connector design are: **Micro-D-Mix™ metal shielded connectors, micro circular space saving OMM connectors, MICROFLEX™** etc.

About us

Nicomatic has set up a strong innovation pole as well as engineering department and invests between 10 and 15% of its yearly turnover in R&D and new production equipments. Several patents are deposited each year. Over a consolidated turnover of >20M€ in 2010 (e), Nicomatic sells across 40 countries for 80% outside of France. The company is also a member of EDEN (European Defense Economic Networks). We offer our customers a worldwide presence & proximity, short lead time, high quality and custom design connectors.

CMM series micro-connectors direct benefits:

- Space saving: -40% in surface and up to -60% in volume
- Weight saving: -20% to -50% vs. usual solution for same functionalities
- Reduces number of connectors: 2 or 3 connectors in 1 thanks to a modular system
- Cost effective solution: custom connector assembly from standard components
- Proven success stories and track-record in on-board electronics systems
- Full traceability with EN9100:2003
- Short lead time: 1 week express service, Premium service, Fast sampling and prototyping
- Online services (www.nicomatic.com) : free use of MyNicomatic service (2D & 3D drawings), automatic part numbering & mating half configurators, technical support under technic@nicomatic.fr...

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PROENGIN

Founded in 1972 and with an international presence over 40 countries, Proengin has developed biological and chemical warfare agents (CWA) field detectors using flame spectrometry.

			
AP4C	AP4C-V	AP4C-F	MAB

Chemical detection

The handheld chemical detector AP4C is able to detect all dangerous compounds containing Sulphur, Phosphorus, Arsenic, and/or the HNO chemical bond in a simultaneous way. It has the capacity to work in very severe environmental conditions. Number of detected gases is unlimited:

- all nerve, blister, blood and vomiting agents*
- impure agents or chemicals manufactured by terrorists that would not fit into traditional libraries of other detectors*
- precursors and derivative, Novichok agents, as well as new agents that will be developed in the future, with no need for any upgrade.*

The response time is among the shortest on the market as recovery time after a positive detection.

AP4C has been derived into 2 other detectors (with same detection performances):

- AP4C-V, to be operated on wheeled and tracked reconnaissance vehicles,*
- AP4C-F, to be operated on critical buildings and ships (24/7 monitoring).*

Biological detection and full CBRN instrument

The biological detector MAB has the unique capacity of detecting and categorizing biological particles with a proven extremely low false alarm rate. It is designed to trigger sampling and analysing devices.

AP4C-FB combines chemical detection and biological alarm in the same body.

Contact



RENK France

HALL2 – BOOTH 242F –

RENK France, formerly known as SESM, is the French member of the RENK group, world specialist in automatic transmissions for MBT and other tracked combat vehicles. The RENK transmissions are in service in over 30 armies worldwide and are used in 40 types of tracked vehicles.

Located at 30 km from Paris, RENK France develops more particularly modern powerpacks for heavy tracked military vehicles. RENK France is also the company selected by the French Army for the maintenance of the Leclerc and AMX30B2 transmissions.



ESM350 - Modern powerpack for T-90 / T-72 / M-84 / PT-91

The ESM350 powerpack fits into the existing chassis with only minor modifications. This way, the powerpack is an option for new-production as well as for upgrade programs. The powerpack comprises a fully automatic power-shift transmission, a high performance cooling system designed for hot climatic conditions and an engine with a maximum power of 1200hp. Various engine options are available.

The complete powerpack can be exchanged in less than one hour in field conditions, improving the fleet availability and reducing the operating costs. One

standard powerpack can equip a complete range of vehicles, including MBT T-90/T-72 and all their derivatives ARV, AEV, AVLB, etc...

The system is equipping the new Malaysian MBT PT-91M supplied by BUMAR, Poland.

ESM500 - High-end powerpack for 50+ tons class vehicles

Offering similar features as the ESM350, these powerpacks are designed for heavier applications with engine power up to 1500hp. In service in the French Leclerc and successfully tested in the MBT2000 (Al-Khalid), the fully automatic powershift transmission ESM500, comprises a secondary retarder and a torque converter, 5 speed forward and 2 speed reverse. The braking system, separated from the transmission, includes dry carbon-carbon disk technology, providing extremely high deceleration. The powerful hydrostatic steering unit allows a 360° pivot on the spot in less than 10 seconds.

ENC200 – Upgrade packages for AMX30 and derivatives

Original designer of the transmission ENC200 of the French AMX30B2, RENK France offers also upgrade packages for the AMX30 and derivatives (air defence Shahine, artillery AUF1). A modern diesel engine, up to 750hp, coupled to the semi-automatic transmission ENC200 (fully automatic in option) and an efficient cooling system is available.

Contact

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ROXEL

A global player in the field of propulsion systems for tactical missile and rocket technologies

ROXEL, a company equally owned by MBDA and SAFRAN SME, is the European leader for design, development and manufacturing of rocket motors dedicated to tactical weapon systems and cruise missiles. ROXEL masters the whole range of activities relating to propulsion for tactical weapons and tactical cruise missiles providing the most appropriate solutions and responses to System Primes and End customers.

ROXEL Product Range

ROXEL manufactures the propulsion systems in cooperation with major missile prime contractors including MBDA, THALES, LOCKHEED MARTIN, SAAB DYNAMICS..., for the following programs :

- Anti-Tank Missiles (ERYX, MILAN, TRIGAT, BILL 2, MSS 1.2 ...)
- Anti-Ship Missiles (EXOCET, MARTE, RBS15, OTOMAT...)
- Ground to Air Missiles (ASTER, MISTRAL, RAPIER, CROTALE...)
- Air to Air Missiles (MICA, METEOR, ...)
- Air launched guided bombs (AASM)
- Artillery Rockets (GMLRS, 122mm...)
- Air to Ground Rockets (68 mm, 70 mm, 2"75...)
-

ROXEL proposes to its customers environment friendly demilitarization processes to eliminate existing stockpiles of rockets and missiles motors. Roxel masters Transfer of Technologies (ToT) abroad including processes engineering, pyrotechnic facilities erection and commissioning, TDP/MDPs, training and technical assistance to customer staff at site.



ASTER – Thrust Vector Control



ERYX

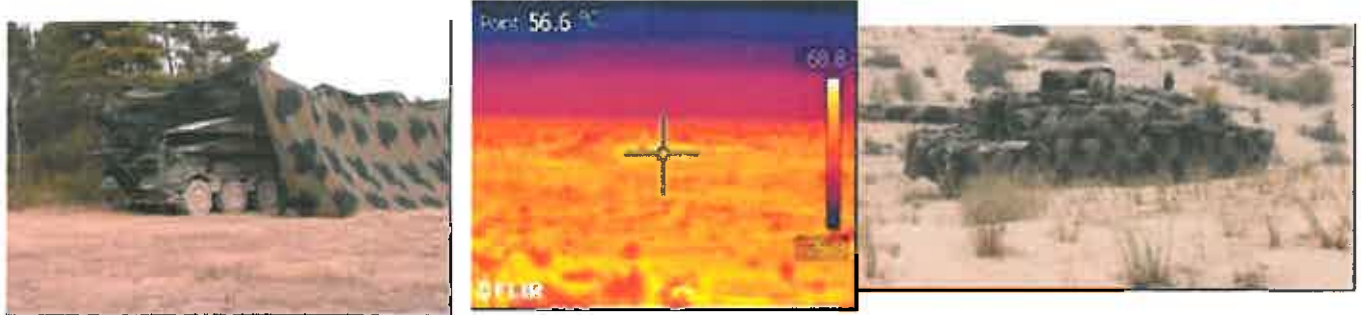
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MULTI SPECTRAL CAMOUFLAGE: SAINT FRERES EFFICIENCY FOR NETS, MCS, AND SUITS



MSCN: Thoughtlessness ($250\text{g}/\text{m}^2$), efficiency in all the spectral bands, (UV - PIR - IR II & III - Radar 8 to 94 GHz). Our MSCN were tested by DGA (France) and FGAN (Germany). Results are from these laboratories.

THERMAL ATTENUATION: 3- $5\mu\text{m}$ >75%, 8- $12\mu\text{m}$ > 75%,

RADAR: 8 to 94 GHz >10Db

Behaviour with the background, 98% of the time between $\pm 2^\circ\text{C}$ - Distance of detection: < 2 500m

MCS: Saint Frères Confection & MBDA have developed a total protection for mobile vehicle. All the evaluation trials were made by French MoD: DGA/CELAR and DGA/ETAS. **MULTISORB**® provides a total passive solution to reduce a vehicle' signature in Visual, IR (I, II, III bands) and RADAR between 4 to 100 GHz.

Provides a high level of stealth in: visual, IR, RADAR,

Suitable for a wide range of vehicles and other applications,

Cut to size and shape by MBDA for retrofitting, Lightweight, Robust, All camouflage options.

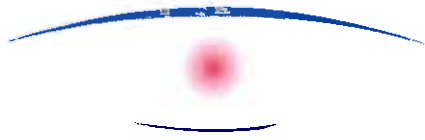
MULTISORB® is extremely versatile and suitable for a wide range of vehicles ranging from 4X4s to battle tank. The kit does not impinge on the ERA properties of modern battle armour. It will also provide the same stealth properties for battlefield installations such as shelters, machine gun posts, sniper hideouts used by Special Forces carrying out commando style shore attacks or secret landings.

SUITS: CAPE or individual screens allow a total camouflage in all spectral bands: UV, PIR, IR II & IR III =>78% - RADAR (8 to 94GHz +>10Db),



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S O F R A D I R

HALL 2 BOOTH 242A

Sofradir, specialized in cooled second- and third-generation infrared detectors (IR) based on Mercury Cadmium Telluride (MCT) for military, space and industrial applications, is the No. 1 IR MCT detector supplier in Europe, and the No. 2 ranking, worldwide.

Sofradir and its subsidiaries ULIS (dedicated to uncooled IR detectors) and Sofradir EC (specialized in infrared equipment for scientific, industrial, public safety, security and defence applications) together employ more than 500 people.

Sofradir's short-wave, mid-wave and long-wave MCT detectors cover a full range of applications and have been integrated in battlefield proven equipment such as the Storm Shadow/SCALP EG missile, Damocles targeting and NAVFLIR navigation pods, Sophie hand held goggles, IRIS cameras and SADA II (for US armored vehicles). Sofradir and ULIS customers include the US Army, Thales, Sagem, Selex, Thales Alenia Space, ESA (European Space Agency) and FLIR Systems.

Product Highlights

Pluton 288 x 4 LWIR: the first 2nd-generation IR detector supplied to the market with more than 22,000 shipped.

Mercury 480 x 6 LWIR: the choice of the US Army, and equips the highest performance FLIRs.

Mars 320x256 VLWIR: the unique array for imagery and spectroscopy up to 11.7µm wavelength.

Epsilon (384x288 15µm pitch): the most compact and lowest power consumption MWIR MCT detector on the market for hand held systems or small UAV.

Scorpio 640 x 512 MWIR: the first 15 µm pitch and the smallest full TV array on the market.

LEO MW: the TV format 15µm pitch MWIR detector with a digital interface. This product is optimized regarding Size, Weight And Power (SWAP) for hand-held or small UAVs applications.

SCORPIO LW: The high performance TV format 15µm pitch LW IR detector. Scorpio LW addresses needs for high resolution and high performances applications in Band III such as long range surveillance, commander's or gunner's sight,IRST ...

Jupiter 1280x1024 MWIR: better than the High Definition TV.

Saturn 1000 x 256 SWIR & MWIR: the SWIR large format for hyperspectral imaging and space application.

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