PROJECTION & PROTECTION
Innovative and adaptable, the L-CAT® Landing Craft family supports all kind of expeditionary amphibious operations worldwide.

**L-CAT® Ship-to-shore**  
High Speed Naval Connector

Sea & Combat proven, the L-CAT® Ship-to-shore is a force multiplier for large LPDs and LHD’s*. Deployed from any US type well-deck, it enables over the horizon amphibious operations with short loading & unloading rotation time thanks to its Roll-On / Roll-Off configuration and variable draft system. The L-CAT® Ship-to-shore has excellent landing capabilities on any coastal infrastructures (quay, slipway and beach).

* LPD: Landing Platform Dock, LHD: Landing Helicopter Dock

**L-CAT® Shore-to-shore**  
Regional Force Projection Craft

The L-CAT® Shore-to-shore is a key enabler of standalone force projection on a regional scale and is suitable for long-range amphibious, disaster relief and maritime security operations.

CNIM offers tailored systems & equipment packages (weapons, C2 systems, sensors) to fit operational needs.

A follow on of the L-CAT® Ship-to-shore, the L-CAT® Shore-to-shore allows rapid deployment & quick access to littoral areas.

127 m³ USEABLE PLATFORM  
100 TONS OF EQUIPMENT AND SUPPLIES  
500 NM  
30 KNOTS TOP SPEED

127 m³ USEABLE PLATFORM  
100 TONS OF EQUIPMENT AND SUPPLIES  
800 NM  
22 KNOTS TOP SPEED

**Shallow water beaching capability!**

Project your Forces with the L-CAT® family on any beaches, in 80 cm of water.
CNIM provides world class bridges and high performances gap-crossing systems to global Land Forces for military and disaster relief operations.

**PFM**  
Tactical Motorized Floating Bridge

The PFM is a tactical wet-gap crossing solution adapted to today’s Land Forces needs. Rugged and reliable, it can be deployed as either a MLC* 70T / 80W continuous floating bridge or a roll-on roll-off ferry.

Built from self-propelled sections it is deployed over a short time period, (30’ for a 100 m long bridge) with minimum staff and no auxiliary boats.

**PTA**  
High Performance Modular Assault Bridge

The PTA is a high performance gap crossing capability, offering modularity in front of the gap (2 times 14 m at MLC 120T / 150W or 1 time 26 m long bridges at MLC 85T / 100W).

Its remotely operated launching system can deploy a 26 m long bridge in 10 minutes with 2 operators.

* MLC: Military Load Classification
Bertin offers leading-edge optronic devices dedicated to the Detection, Recognition & Identification (DRI) of targets in all conditions, including high-risk environments.

**FusionSight®**
Lightweight Night & Day Vision Enhancer

Fully digital and designed to meet users’ needs, the FusionSight® combines two viewing modes, based on low light color and thermal cameras, to be used separately or in smart fusion mode. Especially adapted to team leaders and special forces requirements, this reliable handheld device is most efficient when used to unveil camouflaged enemies in operation.

**PeriSight®**
Night & Day vision enhancer for vehicle and sensitive site surveillance

The PeriSight® is a patented network of imaging sensor modules offering multiple viewing channels - low light color and thermal. The system provides night and day 360° surveillance in short and long range (in zoom version) to enhance Land Situational Awareness (LSA) and Driver Vision Enhancement (DVE) for driving and maneuvers.

Developed to meet customers’ requirements, the PeriSight® is compatible for critical areas surveillance and with all kinds of vehicles for integration.

**CamSight®**
Digital compact core cameras

Targeting integrators and vehicle manufacturers, CamSight are camera modules integrated into complex optronic systems. They are based on FusionSight and PeriSight optronic technology. Reliable and easy to maintain, CamSight modules are available in two versions: uncooled thermal (infrared) and low light level.

Fully digital, the PeriSight® enables additional key features such as shared video streaming, electronic stabilization, automatic detection and target tracking.
Multi-sensor surveillance networks

FLEXNET is a wireless mesh networked Unattended Ground Sensor (UGS) platform dedicated to military surveillance, homeland security & critical infrastructure protection applications.

**Intelligent autonomous UGS**
Seismic & acoustic / passive Infrared / remote Day & Night camera

Exensor has been developed intelligent and wireless Unattended Ground Sensors and cameras able to detect, classify, identify and track moving objects on the ground.

UMRA Mini – Seismic & acoustic detection and classification

Passive Infrared sensors detect direction of travel

Scout Cameras – Intelligent remote thermal and/or daylight cameras triggered by sensors

**FLEXNET**
Scalable, mobile & wireless sensor platform

FLEXNET is a modular, self-healing & wireless ground sensor platform for mobile, semi-static & static surveillance. Its open architecture allows this system to be deployed as a stand-alone capability or become fully integrated with other platforms & Battle Management Systems.

FLEXNET provides early remote Detection, Classification and Identification of any threat in wide areas & complex terrain, both in LOS & NLOS* situations.

Designed for trained generalist and specialist users, this easy-to-use platform can be deployed in a few minutes.

*Line-of-sight & Non-line-of-sight

**EXENSOR**
www.exensor.com • info@exensor.com
Bertin offers a comprehensive range of Chemical, Biological, Radiological and Nuclear (CBRN) threat detection solutions.

**Second Sight® MS**  
Standoff Gas Cloud Detection Camera

This easy to deploy camera is able to detect & visualize a large range of gas clouds up to 5km away, in real time. The infrared imaging capability allows night & day 360° surveillance of the environment.

**Coriolis® RECON**  
Portable Air Sampler for biological warfare agents detection

This ruggedized and easy to deploy system is dedicated to collect biological warfare agents. Its patented cyclonic technology enables long time monitoring of special areas in case of bio-threat suspicion and is compatible with any identification method.

**SaphyRAD® MS**  
Multi-probe Military Survey Meter

This latest generation of multiprobe survey meter has been designed to be used in harsh environments, by all armed forces, to detect ionizing radiations. It associates a wide range of specialized probes for radioactive sources/hot spot search & contamination measurement.

**SaphyGATE® G**  
Smart radiation portal monitor for vehicle & load control

Following the highest quality standards, this new Radiation Portal Monitor is aimed at performing radiological controls on trucks, trains and cargo loads. Based on an innovative algorithm, the system warns the operating agent only in case of alarm or failure.

www.bertin-instruments.com • contact@bertin-instruments.com
Bertin provides software solutions dedicated to the defense-in-depth of sensitive information systems and the advanced processing of digital & voice data for Cyber Intelligence and Speech Analytics needs.

**Secure Data Exchanges Between Sensitive Systems**

Configurable as a one-way (diode) or a two-way gateway, **Crossing®** controls and secures the interconnections between networks of different sensitivity levels (e.g. public vs restricted, IT vs OT). It combines sanitizing, filtering and partitioning features so as to ensure the integrity and confidentiality of exchanges in critical environments.

**Enhance Situational Awareness with Broad Digital Vigilance**

Through **AMI EI®, MediaCentric® and MediaSpeech®**, Bertin IT provides a full product range for in-depth monitoring and analysis of multimedia and multilingual contents from the Web (Social Networks, forums, ...) and offline Media (TV/Radio) for the needs of OSINT and strategic intelligence analysts.

**Identify and Anticipate Threats Targeting States & Organizations**

A cyber threat intelligence platform, **MediaCentric®** offers strong capabilities for extracting relevant and hard-to-find piece of information from the clear/deep/dark Web so as to investigate communities and individuals, and to detect threats to the states, signs of preparation of cyberattacks or targeted operations, fraud activities and data leakage.

**Detect Risk Elements in Phone Interactions**

A powerful speech-to-text engine, **MediaSpeech®** enables in-depth analysis of conversational audio contents for lawful, tactical and strategic purposes. Through the detection of key words or expressions and the identification of languages and speakers, it provides alerts on elements and targets at risk.
CNIM and its subsidiaries Bertin and Exensor stand alongside with Armed & Security Forces worldwide to accompany their transformation and address their challenges for today and tomorrow.

The 160 years of industrial history is present in CNIM’s culture and embodied by generations of engineers and technicians, committed to push back the boundaries of technology to create reliable and high-performance solutions.

**Force PROJECTION**

- **AMPHIBIOUS SOLUTIONS**
- **BRIDGING SYSTEMS**

**PROTECTION of Deployed Forces & Critical Infrastructures**

- **SURVEILLANCE OPTRONICS SOLUTIONS**
- **MULTI-SENSOR SURVEILLANCE NETWORKS**
- **CBRN THREAT DETECTION**
- **CYBER SECURITY & INTELLIGENCE**

**CNIM, A LONG STANDING PARTNER**

- Worldwide clients & partners
- 2,600 employees
- 635 million € revenues in 2017
- 52% from export
- 160 years of track record in Defense

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