



# Land Force

Full European technology at the service of Land Force



**ELTGROUP**  
Defence

[ELTGROUP.NET](http://ELTGROUP.NET)



ELTGROUP

We do not  
simply anticipate  
the future

# Who we are

In a fast-changing world we represent the touchstone of technological evolution thanks to our creative and timely strategic thinking and an innovative portfolio of solutions unique in its entirety.

# What we do

To offer the most innovative solutions to guarantee the security of people, means and information in the most complex operational scenarios: this is our sole mission.

Our clients recognise the uniqueness of our offering: to work with us means entrusting themselves to an international company of outstanding excellence which, thanks to its Italian roots, creates bespoke solution with professionals who mould the best technologies to suit their needs.

# How we do it

We invest in our people, the most important asset, to anticipate the needs of tomorrow with the ingenious of today.

ELT Group designs and develops entirely in house, and complete the supply up to the finalization of each program, including integrations and installation on board of any type of platform. We use cutting edge technologies suitable for export.

We stay close to the customer with our network of offices, granting proximity to the end users of our solutions. A full expert and skilled team is at your disposal for the satisfaction of your EW exigencies.

ELT Group is a technical partner and a preferred solution provider of the Italian Armed Forces.

# Electronic Defence

Anticipate and neutralize continuously evolving threats for the protection of the forces and their missions' success.

## ELT/334

Loyal Mate

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ELT/334 is an integrated system, which includes detection and reaction against radio remote controlled IED. Its architecture is fully software definable and includes pre-initiation, hybrid active/reactive capabilities and other advanced features.

The technology behind it makes possible the definition of interoperability with your own communication systems, creating specific jamming profiles and waveforms build to match with any type of mission.

This powerful tool supports vehicular and stepped operations and the combination of the two, when clearing the route or checking the presence of explosive device ask for a “smart bubble”.



### ELT/334 at a glance

- Enable unique mobility capabilities
- Full coverage IED jamming system in single unit for threat up to 6GHz
- Waveforms are custom made according to specific project needs and constraints
- Various configurations and Form factor
- GPS for synchronization of multiple jammers at the same operational area
- Scalable power output based on platform and requirements
- Easy to maintain, allowing very low MTTR



# ELT/162

## Careful Thinking

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The Full Digital RWR is here! When early warning is not enough and you need to anticipate the mission's troubles then you come to ELT/162.

ELT/162 prevents crews from imminent threats long before they could become a “problem”.

Conceived in a very compact module, the system monitors even the densest electromagnetic scenarios to protect combat aircraft, helicopters and transport aircraft.

It has the ability to designate countermeasures systems even in presence of threat-related but unknown emitters based upon their illumination characteristics.

There is no risk of mid-mission falter.



### ELT/162 at a glance

- Full Digital architecture
- Warning of high priority emitters
- Capability to operate also with raw data libraries (mission data)
- Capability to automatically analyze, classify, display and record also unknown emissions
- Capability to operate as an EW Controller that exploits/ performs functions for multi-sensor coordination
- Able to designate counter-measure such as chaff and expendable active decoy
- Flight line re-programmable
- ESM functionality
- Strong Multi signal capability
- Emitter synthesis and identification powered by Artificial Intelligence
- Easy customization and installation
- Future growth capabilities

# Electro Optical Infra Red

A 360° capability against most deadly threats represented by Manpads and leveraging the combat capability of different platforms.

## QCL-BASED DIRCM SYSTEM

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QCL-DIRCM represents the next generation in DIRCM technology, but already available and free of export restrictions.

It introduces Quantum cascade lasers to generate countermeasures, which represents a decisive step forward compared to semiconductor laser technology, along with a very compact design, now including a spherical dome.

QCL-DIRCM can be installed on every type of Army helicopters.



### QCL-DIRCM at a glance

- Fast, effective and reliable neutralization of present and future IR-guided missiles (adaptable to threat evolution)
- Prompt and effective reaction to counter multiple, even simultaneous threats (ELT patent)
- Rugged design for airborne environment
- Wide spatial coverage (well beyond the hemispherical sector) also with a single turret
- Complete European Solution

# Intelligence Surveillance Reconnaissance

Deliver a unique capability for Tactical ISR through a combination of different platforms acting in combined operations.

## ELT/819

Nothing goes unnoticed

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ELT/819 is designed for advanced Signal Intelligence missions within ISTAR-EW platforms.

Its function is to collect electromagnetic emissions to determine their inherent features, including “fingerprinting” of the systems associated with them in order to feed the intelligence cycle.

Flexible deployment also allows tactical use during preparation and support for joint missions, for example on airborne Early Warning platforms.

There are no obstacles that intelligent technology cannot overcome.



### ELT/819 at a glance

- Large RF coverage from A to K band
- Dual receiver with extremely high sensitivity and high Probability Of Intercept (POI)
- Wide instantaneous IF bandwidth
- Capability to operate in dense, complex and a priori unknown electromagnetic scenarios; E.O.B. creation/ updating and presentation on digital maps
- Very accurate DOA measurements
- Automatic and computer-aided analysis both at Interpulse and Intrapulse level
- Digital recording of all the acquired data (PDMs and Intrapulse analysis data)
- Capability to be tasked and interrogated (through the on-board communication facilities) by a remote command center in a Network-Centric architecture

# Intelligence Surveillance Reconnaissance

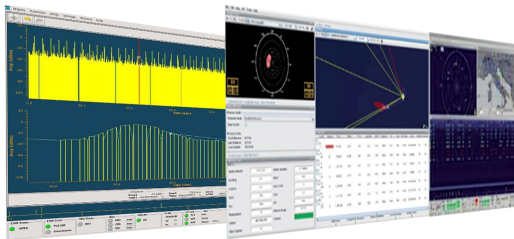
## ELT/1000

### Advanced Patrol

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Rotor UAV are nowadays widely used by modern armies. ELT/1000 is a compact and high performance Radar ESM payload designed to support EW mission upon integration into this type of UAS. Its function is to collect electromagnetic emissions by extending the detection range with the flight range of the UAS.

The next step is to fuse the UAS sensor's data into a complete and update Common Operational Picture. SWaP characteristics are achieved through compact design and high integration technology assuring the installability on the majority of tactical unmanned platforms that are currently available on the market.



#### ELT/1000 at a glance

- Radar Emitter measurement and technical parameters extraction
- High accuracy Direction of Arrival
- Emitter Geo-Location
- High Recording Capacity
- Very wide operative and instantaneous bandwidth
- High sensitivity
- High Probability of Intercept



# Homeland Security & Force Protection

Deliver a comprehensive capability to assure a global security.

## ADRIAN

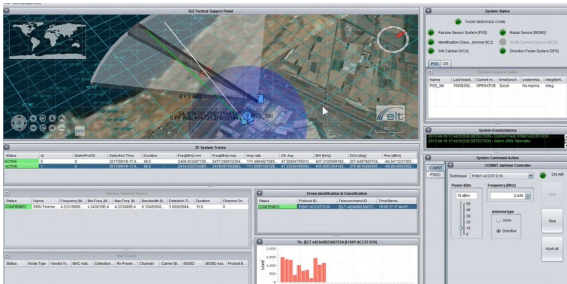
Clear Route

ADRIAN (Anti-Drone Interception Acquisition Neutralization) takes control of no-drone areas and assures detection, identification and appropriate reaction if becoming a potential threat.

ADRIAN is the state-of-the-art Counter-UAV solution designed to intercept and neutralize LSS (Low-Small- Slow) UAVs in multiple scenarios and environments, including deployed bases, route paths and urban areas.

ADRIAN can detect and resolve the latest problems in global security.

ADRIAN is the most complete solution available worldwide, integration 2D and 3D radar thanks to its system of systems architecture. ADRIAN is multidomain, fulfilling tasks ranging from Air Defence to Homeland Security.



### ADRIAN at a glance

- Detection of very low power and Frequency Hopping Signals
- Real-time threat analysis (classification, identification, geo-location)
- Post analysis for forensic application
- UAV soft kill by countermeasure against radio control and GNSS system
- GNSS spoofing to force drone landing in a safe area
- User-friendly HMI, with immediate feedback on alarms and threat features
- External interface to central operative center
- Easy deployable and possibility to integrate on mobile vehicles

# Global Sustainment

Mastering the Electronic Warfare full capability with a global training, operational support and lifecycle logistic management in one global solution.

## Customer Support & EW Academy

Global Sustainment for Global Success

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ELT Group considers customer support as a global capability across all domains.

It consists of a complete, modular program to sustain the enter-into-service, training, maintenance& overhaul, mid-life upgrade and decommissioning phases of all ELT Group systems.

EW Academy is the new program developed to provide a full series of tools for customers, training and full immersion experiences related to the systems provided.

Highly specialised EW experts with heterogeneous knowledge of the various scenarios and products are available to users.

The Electronic Warfare Simulation & Training Center also offers training in an innovative EW BATTLE LAB with 3D simulation.

We deliver Global Sustainment because the success of a system lies in the combination of technologies and human skills.



# Our solutions

ELT Group is a world leader in Electronic Warfare for the aerial domain of military operation, with state-of-the-art technology portfolio that integrates several capabilities into software defined systems. This allows to perform Electronic Defence, ISR, Force Protection and extended combined aerial, terrestrial and naval operations with the same solution: full European technology at the service of Air Force.

Our solutions are designed for all types of platforms, from attack helicopters to transport planes, from special mission aircraft to unmanned aerial systems.

They are entirely conceived, developed and produced in-house, supported by internal R&D.

All our products and systems are designed for exportability.

## **We offer the following capabilities in Electronic Warfare:**

- Electronic Defence
- Electro Optical Infra Red
- Self Protection
- Intelligence Surveillance Reconnaissance
- Homeland Security & Force Protection
- Global Sustainment

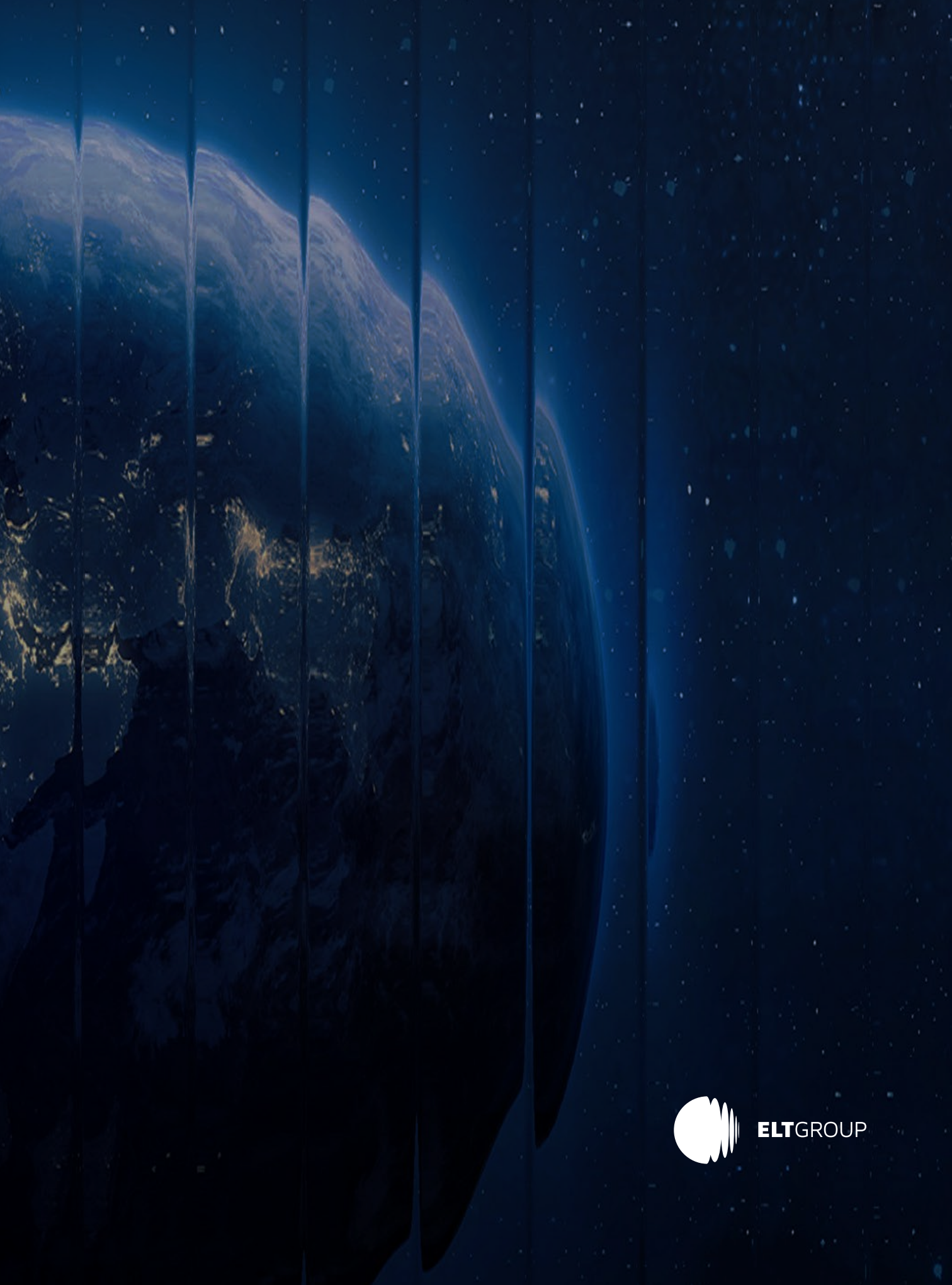












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