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

We believe that the best way to generate innovation is to be part of it, by daily enriching our work with creativity in thought and action; with competence, competitive energy and flexibility, as well as the precious and indispensable understanding necessary to build solid partnerships and act with foresight to anticipate market needs.

Our clients recognise the unique nature of our offering: in choosing to work with us, they entrust themselves to an international company of outstanding excellence which, thanks to its Italian roots and professionals who mould the best technologies to suit effective needs, creates appropriate “bespoke” solutions.
A 360° PARTNER IN ELECTRONIC WARFARE, CYBER EW, INTELLIGENCE, EDUCATION & TRAINING
SOLUTIONS TAILORED TO THE USER, A PASSION FOR EXCELLENCE, A REQUIREMENT-ORIENTED MISSION

Electronic Attack & Self-Protection
Intelligence Surveillance Reconnaissance
Electro Optical/Infra-Red
Cyber EW & Intelligence
Public Security & Law Enforcement
Customer Support

RWR/RESM, RECM, CECM, COMM JAM
RESM, CESM, SIGINT (ELINT, COMINT)
DIRCM
OSINT, DIGITAL & SPECTRUM INTELLIGENCE
OSINT, BORDER AND AREA SURVEILLANCE SPECTRUM INTELLIGENCE SECURITY
EDUCATION, OPERATIONAL SUPPORT, INTEGRATED LOGISTICS
Established in 1951, ELETTRONICA is a World Leader in Electronic Warfare with a complete portfolio of state-of-the-art solutions to satisfy the most challenging requirements of modern operational scenarios.

The solutions designed and manufactured by ELETTRONICA cover a wide range of applications and missions: ELINT, COMINT (SIGINT), ISR, INFRARED, SELF-PROTECTION, ELECTRONIC ATTACK.
MANUFACTURING, HOMELAND SECURITY AND SIMULATION

<table>
<thead>
<tr>
<th></th>
<th>Revenues 2018</th>
<th>Order Book 2018</th>
<th>People</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>20 Mln€</td>
<td>38 Mln€</td>
<td>80 FTE</td>
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Founded in 1978 to support Elettronica in key European Programs (F104, Tornado, EFA), ELT GmbH now is a Centre of Excellence in Homeland Security, Test Validation Systems and Video Digital Boards Design and Production.
Established in 2014, CY4GATE is a Joint Venture between ELETTRONICA and Expert System - world leader in innovative solutions based on semantic intelligence - which can provide Governments with software and hardware solutions to support the full intelligence cycle and to succeed in Cyber operations through the use of the electromagnetic spectrum, communications, operating systems and wired networks.
ELETTRONICA GROUP

OUR HISTORY

1950/1970
• Underwater electronic system (SONAR) for the Italian Navy
• IFF /SIF systems for the Italian Air force
• On-board equipment for F104 and G91 aircraft
• Radar Jamming / Training system for the Italian MoD and other Armed Forces in West Germany, France, Holland and South Africa

1970/2000
• ECM self-protection system for the F-104 aircraft of the Italian and German Air Forces
• RWR and self-protection system for Tornado
• ESM system for the Lupo class ships of the Italian, Australian, Peruvian, Ecuadorian and Venezuelan navies
• Integrated naval ESM/ECM system for the Israeli Navy
• Navy EW Suite in POD for the Air Force of Morocco

2000/2010
• Self-Protection Jammer (SPI), Defensive Aids Sub-System (DASS), for Typhoon (EURODASS consortium)
• EW system for the Horizon and FREMM frigates (SIGEN consortium) Low Band Jammer (LBI) for the Mirage 2000/9 aircraft

2010/2020
• Integrated EW Suite (ESM/ECM) and DIRCM for CSAR helo of the Italian Air Force
• SIGINT system and DIRCM on wide body aircraft for Middle East customer Tactical EW system (TEWS)

COMMERCIAL IN CONFIDENCE
ELETTRONICA GROUP
PERSONNEL

900 EMPLOYEES

47% ENGINEERS & Phd

43% SKILLED TECHNICIANS

10% STAFF
PREPARE & EXECUTE

ELECTRONIC ATTACK & SELF-PROTECTION

FULLY INTEGRATED ELECTRONIC ATTACK & SELF-PROTECTION SYSTEMS

OPEN MODULAR ARCHITECTURES ADVANCED

SMART JAMMING TECHNIQUES
PREPARE & EXECUTE
Electronic Attack & Self-Protection

EUROFIGHTER TYphoon
«PRAETORIAN DASS»
(TX/RX SS APA)

TORNADO
ESM FAMILY «ELT/750»

MIRAGE 2000
LB ECM «ELT/558»

SELF-PROTECTION JAMMER

ELECTRONIC SUPPORT MEASURES

LOW BAND JAMMER
PREPARE & EXECUTE
Electronic Attack & Self-Protection

CAVOUR CARRIER ECM «NETTUNO 4100»

FREMM & HORIZON FREGATE ECM «NETTUNO 4100»

ITALIAN NAVY LHD & PPA INTEGRATED ESM/ECM «VIRGILIUS»

TX/RX SS ECM

360° SELF-PROTECTION ECM

SELF-PROTECTION & ELECTRONIC ATTACK RADAR-COOPERATIVE EW SYSTEM
Signal Intelligence, Surveillance & Reconnaissance

VERY HIGH SENSITIVITY AND ACCURACY SIGNAL INTELLIGENCE RECEIVERS STATE-OF-THE-ART AUTOMATIC PROCESSING COMPREHENSIVE, SUPERIOR SITUATION AWARENESS AND COMMON OPERATING PICTURE
PREPARE & EXECUTE

SIGINT & ISR

C27J
ESM «ELT/741 & ELT/800»

ATR72
ESM «ELT/741 & ELT/800»

BOMBARDIER GLOBAL EXPRESS
«ELT/819 + ELT/572 DIRCM»
PREPARE & EXECUTE
SIGINT & ISR

C2/C4i SYSTEMS
«ELT LOKI FAMILY»

ELINT
«ELT/819 FAMILY»

GROUND ELECTRONIC SURVEILLANCE IN NETWORKED ENVIRONMENT FOR REAL-TIME SITUATION AWARENESS
EO/IR

Electro Optical/InfraRed
PREPARE & EXECUTE

EO/IR

AW101 CSAR
«ELT/572 DIRCM»

BOMBARDIER GLOBAL EXPRESS
«ELT/572 DIRCM»

FULL PROTECTION AGAINST IR-GUIDED THREATS
UAS

SPECIFIC EW SOLUTIONS FOR

Unmanned Aerial Systems
PREPARE & EXECUTE
HALE/MALE

GLOBAL HAWK - CLASS
PREDATOR - CLASS
P1HH - CLASS

SIGINT, ISR, SUPPORT JAMMING
«ELT/1002 - ELT/1003»

COMMERCIAL IN CONFIDENCE
PREPARE & EXECUTE

CYBER EW & INTELLIGENCE

A 360° Capability
PREPARE & EXECUTE

CYBER EW & INTELLIGENCE

A 360° CAPABILITY WITH DEDICATED FACILITIES IN ORDER TO:

- Gather and collect sensitive information from the EMS of networks
- Discover patterns of meanings and operationally meaningful links in Big Data Gain
- Access to a selected flow of information in a target network
- Cripple physical communications
- Degrade or incapacitate the performance of a network of systems, through the network and operating system

CYBER EW & INTELLIGENCE CAPABILITY MODULES

<table>
<thead>
<tr>
<th>LOKI +</th>
<th>G-SINT</th>
<th>DSINT</th>
<th>DIGILAB</th>
<th>CERS</th>
<th>EXCALIBUR</th>
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</thead>
<tbody>
<tr>
<td><img src="image1" alt="LOKI +" /></td>
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<td><img src="image3" alt="DSINT" /></td>
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<td><img src="image5" alt="CERS" /></td>
<td><img src="image6" alt="EXCALIBUR" /></td>
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</tbody>
</table>

- **CYBER C2 I**
  - Strategic & Tactical Comint
  - GSM AND SATELLITE INTERCEPTION

- **Digital Intelligence**
  - WEB INTELLIGENCE
  - LAWFUL INTERCEPTION
  - BIG DATA ANALYSIS
  - CORRELATION AND CYBER COMMON OPERATING PICTURE
  - SEMANTIC INTELLIGENCE

- **Reverse Engineering & Decryption**

- **Defence**
  - COMPUTER EMERGENCY RESPONSE SYSTEM
  - NETWORK VULNERABILITIES ASSESSMENT
  - PENETRATION TEST
  - CYBER DEFENCE

- **Cyber Attack**
  - CYBER EW ATTACK AT THE PHYSICAL, NETWORK AND COGNITIVE LAYER

COMMERCIAL IN CONFIDENCE
PUBLIC SECURITY & LAW ENFORCEMENT
The MUROS systems family is conceived for surveillance, investigation and intelligence operations.

**CAPABILITIES**

- Border Surveillance
- Multifunctional Sensor
- Image & Video Processing
- Command & Control
- Tactical Video and Acoustic Surveillance
- Environment Measurement
- Traffic Intelligence
- Communication Intelligence and Semantic Analysis
- Intelligence Analysis Centre
- IP Data Interception and Analysis
- Jamming of Communications
- Communication, Interception and Direction Finding
SUPPORT

EDUCATION & OPERATIONAL SUPPORT

- EW Database Management Systems
- Mission Libraries Generation and Validation
- EW Simulators for both on-board and ground training
- EW Solutions for Mission Planning, Briefing and Debriefing Tools
- EW Academy for continuous Personnel Education, Training and Certification

EW LIBRARIES GENERATION

BRIEFING/DEBRIEFING TOOLS

MISSION DATA ANALYSIS

C 130J SIMULATOR
Being a leader in the present and future means having the ability to anticipate strategic decisions and adapt your vision to the evolving scenarios. ELETTRONICA cooperates with many worldwide centers of excellence to anticipate ideas and solutions and to be ready for the future challenges.
MISSION
ACCOMPLISHED

2,700 systems supplied to over 28 nations

More than 60 years of success