

LEONARDO ELECTRONICS

GUARDIAN SHIELD

EXPLOSIVE ORDNANCE DISPOSAL ELECTRONIC
COUNTERMEASURES (EOD ECM) SYSTEM



Guardian Shield is a next generation integrated Explosive Ordnance Disposal Electronic Countermeasures (EOD ECM) system. A revolution not evolution. Underpinned by open standards, and by combining Electronic Surveillance with Electronic Attack capabilities, the system is flexible, re-programmable and adaptable to protect in the most demanding threat environments, now and into the future. Low Size, Weight & Power (SWAP), rapidly deployable and with a significant reduction in operator burden, Guardian Shield is designed with the user forefront.

The system consists of two main elements: a forward element hosting advanced Electronic Surveillance and Electronic Attack capture effects, and a rear element hosting command and control and processing capability. Guardian Shield is platform agnostic, simple to integrate and readily exportable.

KEY FEATURES

- Intelligent, informed jamming capability
- Wide range of jamming and detection techniques
- Designed for ease of integration onto platforms and with existing EOD equipment
- Builds on Leonardo's 45+ years of counter RC-IED heritage
- Software-defined, mission-programmable responsive ECM
- Secure by design
- Single operator or RCV-deployed

ADVANCED CAPABILITY

Guardian Shield provides EOD teams with advanced levels of integrated electronic surveillance and attack capabilities:

- **DETECT:** Automatically detects threat signals based on user-defined mission data
- **LOCATE:** Determines threat position through device signal localisation
- **IDENTIFY:** Uses measured signal parametrics to identify threat signals and select appropriate counter
- **COUNTER:** Automatically adapts a precise countermeasure response



KEY BENEFITS

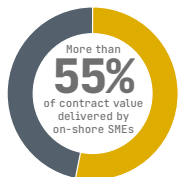
- Next generation levels of protection from current and future RC-IED threats
- Rapidly and easily deployable forward element
- Easy to use graphical user interface
- Simple programming
- Designed for Export (no ITAR)
- Cost effective and easy to integrate
- Reduced through life cost
- Flexible and future proof – rapidly reprogrammable across a broad frequency range
- Aligned with the common open architectures Open VPX, OpenCPI, MORA, AOCO and GVA
- Modular, platform agnostic and simple to integrate
- An extensible system built to incorporate extra functionality through additional capability applications, SW or HW (c-UAS/CEMA/EW)
- Interoperable with other EOD and communication equipment



ADVANCED ELECTRONIC SURVEILLANCE
AND NEXT GENERATION ELECTRONIC COUNTER MEASURES



**FORWARD DEPLOYABLE
AND VEHICLE MOUNTED
APPLICATION**



**OVER
45 YEARS**
of experience
in counter-IED



**FIRST
DELIVERED
2024**



mercury

Led by Leonardo:



MARSHALL

Aligned with open standards:



For more information:
infomarketing@leonardo.com

Leonardo Electronics
Sigma House-Christopher Martin Road-Basildon-Essex SS14 3EL -United Kingdom
T +44 (0) 1268 522822

This publication is issued to provide outline information only and is supplied without liability for errors or omissions.

No part of it may be reproduced or used unless authorised in writing.
We reserve the right to modify or revise all or part of this document without notice.

2025 © Leonardo UK Ltd

LDO_UK24_01178 02-25