Through the GUARDIAN range of products, Leonardo offers combat-proven, military-grade products that are extremely reliable, easy-to-use, simple to deploy, operate and support within the demands of the land tactical environment.

Through many years of experience in delivering Counter Remote Controlled Improvised Explosive Device (C-RCIED) products and a profound understanding of the evolving threat environment, Leonardo introduces GUARDIAN-HFE.

GUARDIAN-HFE is an active, high power 2.4GHz to 6GHz C-RCIED radio frequency inhibitor based on Leonardo’s GUARDIAN-H3 and GUARDIAN-C2 signal generation technology.

The system is designed for both vehicle and static roles, and can be integrated with the GUARDIAN-H3 system providing capability in the frequency band 20MHz to 6GHz. It can also be used as a standalone active jammer over the frequency band 2.4GHz to 6GHz.

GUARDIAN-HFE can also be integrated with any other third party systems currently deployed offering a cost effective solution to resolving extant operational capability gaps.

GUARDIAN-HFE can be supplied with a Remote Control Unit (RCU), enabling the user to remotely control certain functions of the GUARDIAN-HFE.

When integrated with GUARDIAN-H3, a single remote control unit can be used to control both equipments.

The equipment also provides remote visual and audio indication of its status to the user via the RCU.

**KEY CAPABILITIES**

- High output power providing coverage whilst travelling in a moving vehicle
- Active jamming over frequency range 2.4GHz to 6GHz
- Can be integrated as an additional slice to Augment GUARDIAN-H3 giving 20MHz to 6GHz active jamming
- Remotely controllable
- Laptop/PC or fill-device used to load the operational profiles
- Can be supplied as a standalone jammer or integrated with third party supplied equipment
- Comprehensive Built-in-Test (BIT) monitors key equipment parameters providing the operator with immediate audible and visual warnings of failure
- Housed in rugged lightweight alloy case
- Integral fans providing forced air cooling for continuous operation
TECHNICAL SPECIFICATION

WEIGHT
› Main unit 13.0kg approx
› Mounting tray 5.5kg approx

DIMENSIONS
› HxWxD 150mm x 382mm x 510mm
› FE installation envelope 240mm x 510mm x 580mm
› H3+ FE installation envelope 840mm x 510mm x 580mm (when Configured as a Vertical Stack)

ELECTRICAL CHARACTERISTICS
› Power Supply
› Operational Supply Voltage 22V to 30V DC
› Power conditioning unit for 12V DC vehicle supply available
› The equipment is designed withstand the application of a reverse polarity connection at the prime power connector

POWER CONSUMPTION
› Typical 450W (for 40W RF)
› Max Input power < 600W for FE (28V * 22A)

FREQUENCY RANGE
› G-HFE Band 2400MHz to 6GHz
› Transmit Signal generation method 4 channel DDS
› Modulation Capability FM, PCM, FSK, PSK

ENVIRONMENTAL
› Storage -40°C to +80°C
› Operating -33°C to +65°C (de-rated below -20°C)

EMC
› Radiated Emissions RE102, RE103
› Conducted Emissions CE102, CE106
› Radiated Susceptibility RS103
› Conducted Susceptibility CS101, CS114, CS115, CS116

Construction
Housed in rugged, lightweight alloy case, the unit is designed with all controls and connectors protected from accidental damage. NATO green to BS381C tint no. 285 matt finish.

Security
The GUARDIAN-HFE equipment is provided with an independent Zeroise facility by means of a Front Panel mounted switch and an RCU mounted switch. Zeroise switches are fitted with protective covers to void inadvertent operation. The Zeroise function deletes all critical system information from memory.

Alarm indications
Built-in Test (BIT) monitors the key equipment parameters, providing immediate audible and visual warnings of failure to the operator.
› Antenna damage or disconnection
› Failure of signal generation

For more information:
infomarketing@leonardocompany.com
Electronics Division
Sigma House
Christopher Martin Road
Basildon
Essex SS14 3EL - United Kingdom
T +44 (0) 1268 522822

leonardocompany.com

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