



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



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