

Guardian RCIED Suppression





Designed, developed and manufactured by Selex ES, GUARDIAN provides “electronic armour” to security forces against Radio Frequency (RF) initiated Remotely Controlled Improvised Explosive Device (RCIED) threats. GUARDIAN incorporates techniques optimised from over 30 years’ experience in designing electronic equipment to counter RCIEDs.

EASE OF USE

Through the GUARDIAN range of equipments, Selex ES offers security forces combat-proven, easy to use, high-reliability, military-grade products. Preparation and operation are extremely simple, even though the equipment is comprehensively programmable and highly re-configurable.

Lightweight and fully sealed, the GUARDIAN range of electronic counter-measures (ECM) equipment is suitable for the operational demands of the land tactical environment. All GUARDIAN inhibition products have integrated forced air cooling, enhancing reliability under high ambient temperature conditions.

MEETING OPERATIONAL DEMAND

The circuit architecture is centred around Direct Digital Synthesis (DDS) technology, which allows all the characteristics of the ECM signals to be fully programmable for optimum effectiveness.

For example, jamming waveform techniques, such as wideband/barrage and spot, can be simply created using the Selex ES Human-Machine Interface (HMI), called the GUARDIAN Tactical Data Tool

Battery economy is a prime consideration and the equipments are designed for minimal power consumption. A choice of lightweight high capacity Lithium-ion battery technology ensures that the equipments can operate on missions of up to four hours before battery change.

All GUARDIAN equipments have synchronisation capability to support interoperability with other systems.

For over 30 years, Selex ES has supplied ECM capability to the UK Armed Forces. Due to security constraints, we cannot identify the equipment supplied.

SECURITY

Maintaining operational data security is key to effective ECM techniques. The equipment can be rendered inoperable in an emergency. Accessible from the equipment front panel or via the Personal Control Unit (PCU) but protected against accidental use, the zeroing feature allows the user to fully erase the operational jamming waveforms from the equipment.

MAINTENANCE

The Built-In Test (BIT) aids user confidence by continually monitoring the equipment parameters. Audible and visual warnings alert the user to an event such as low battery charge level, prompting the user to change the power source.

We are continually updating our product portfolio to ensure we provide solutions to the ever-changing operational environment.

VEHICLE/FIXED SITE PROTECTION

Designed to meet the demanding size, weight and power (SWaP) requirements of the man-portable role, GUARDIAN can be rapidly configured in small vehicles (e.g., ATVs) which have very limited power available from their electrical systems to support mounted operations.

Secured onto a shock mounted tray with DC power conditioning unit, the “clipped-in man-pack” is supported by a range of ancillaries.



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