



RESM/ELINT Soldier Manpack System

Deployment Site

Mountainous locations, jungles, wild forests, steep coast and any kind of abrupt terrain are places where it is difficult to deploy traditional heavy and big RESM/ELINT systems.

Intelligence, border surveillance and special forces have a new ally to intercept, localize and analyze radars even in dense and complex radioelectric scenarios.

System Concept

Based on both Indra EW technology and its well-proven modules, Indra has developed a system specifically designed for an easy transportation but maintaining all the high performances of a digital RESM/ELINT system.

The system has been designed as a man-portable sensor; therefore efforts have been made to reduce weight, size and consumption of modules to increase the portability of the system.

Easy to transport and deploy, the sensor can be installed on locations of very difficult access by conventional means. However, its technology based on Wideband Digital Reception allows to detect, characterize and identify modern radars.

Physical Main Features

Man-portable modular system to facilitate transport. Just one soldier for on-the-foot operation, using a rugged tablet for potential threat alerts.

Easy deployment once in the operation area for stationary operation: Operation from a light vehicle or mounted on the provided tripod.

Robustness and easy in-field maintenance:

- Comprehensive BIT system to identify the failing module.
- Very easy replacing the failing module.

Designed to endure harsh environmental conditions (rain, snow, wind and extremes of temperature).



Types of Deployments and Operation

On the foot operation

Alert only

- Tablet stored.
- Only alerts through headphones.



Operation + Alert

- Tablet in hand for operation.
- Alerts through headphones.



Technical Main Features

- 2 GHz to 18 GHz frequency coverage with optional extension up to 40 GHz.
- 4 GHz IBW with 100% POI.
- Response Time < 1 second.
- Alert/Warning operation.
- RESM and ELINT capabilities.
- Can be operated connected to vehicle batteries (20-30 VDC) or external 220 VAC or using own batteries.
- Internal Battery Duration:
 - Basic installed battery: 2 hours.
 - With extra spare battery: 4 hours.

System Configuration

- RESM ManPack composed of:
 - 4 Spirals + GPS antenna.
 - Dual Receiver Unit.
 - RESM/ELINT Processor.
 - Battery and Power Distribution unit.
 - Mobile Mission Computer (rugged tablet).
- Rugged laptop for static operation.
- Battery Charger.
- Set of Auxiliary optional items composed of:
 - Tripod for static operation.
 - Extra Charger.
 - Extra batteries.
 - Solar panel.
 - Portable Power Generator.
 - Camouflage blanket.

Static Operation

Wired or wireless Operation

- Sensor is mounted on its tripod or in a light vehicle.
- Operation with Laptop PC.
- Wi-Fi wireless link or Ethernet wire connection.
- External power supply (AC) for charging batteries.



RESM Function (Laptop operation)



1. Detailed alphanumeric information on tracks:
 - Status.
 - Frequency.
 - AOA/Geo-Location.
 - PRI, ARP, PW.
 - NATO Notations.
 - Identifications.
 - Threat Level.
2. Standard RESM Graphics:
 - Frequency/AOA.
 - Polar (AOA/Threat level).
 - Frequency/Amplitude.
 - APP6 symbology.
3. Standard ESM polar display provides clear indication of AoA and threat level.

Warning Function (Tablet operation)



4. Mission recording for off-line analysis (Laptop PC).

indracompany.com

Avda. de Bruselas, 35
28108 Alcobendas
Madrid, Spain

T +34 91 627 10 00
info@indracompany.com

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