



# Ground Based Radar ESM/ELINT Systems

Indra mobile Radar ESM/ELINT Systems provide high operational performances for Early Warning, Surveillance and Intelligence Gathering in the EMS domain.

## Mission

Surveillance of Electromagnetic Spectrum (EMS) is vital to gain advantage in symmetric, asymmetric and hybrid conflicts.

Indra's R-ESM/ELINT Systems provide Land Forces with effective means to intercept, classify and localize any type of air and surface radar emitters.

Standard frequency coverage is 0,5 to 18 GHz, where most of radars work, with a pluggable option up to 40 GHz.

Option: 50-500MHz available, to cover VHF/ UHF radars nowadays living a renewed interest.

## Technical Advantages

- Conceived for fully passive detection, accurately direction finding, determining technical parameters and identifying of any type of radar signals.
- Full Digital Reception. Detection and analysis of pulse, CW and Low Probability of Intercept/ Detect (LPI/LPD) radars.
- Outstanding alert capability. 360° azimuth instantaneous coverage and 100% Probability of Intercept (POI).
- Direction finding based on simultaneous use of interferometer and amplitude monopulse techniques.
- Very high accuracy on Angle-of-Arrival (AOA) calculation, which leads to highly accurate tracking of detected emitters.
- Enhanced performance against co-pulse and/or multi-path situations.
- Received pulses and intrapulse data can be digitally stored for subsequent in-depth analysis.
- Exhaustive off-line analysis features. Proprietary Analysis SW tools to take maximum advantage of recording pulses and intrapulse samples.
- Very high reliability. Designed to operate continuously in harsh environments.
- Fully transportable configuration, installed in shelter and powered by its own dedicated power generator.
- Fully autonomous station that could be operated locally. Up to two operator posts available.
- System maintainability criteria at on-field and depot levels.



## Operative Features

- Standalone Surveillance at long ranges with Early Warning function.
- Tactical function. 100% Probability of Intercept (POI).
- ELINT function. Intelligence on radars including in-depth signal analysis. Based on sophisticated SW tools that allow pulse and intra pulse detailed analyses.
- Accurate characterization and tracking of targets in dense or jammed scenarios (EW Systems, Telecommunication signals, etc.).
- Capability to detect and measure the AOA of any active Electronic Attack system in the area.
- When working jointly with other similar Systems, geo-location of emitters by triangulation algorithms.
- Classification and identification of targets, by accurate measurement and analysis of their parameters and powerful correlation with known-emitters reference database.
- Database storage of all detected and elaborated information, accurately time-stamped.
- Integration and assessment of the acquired data to generate the Electronic Order of Battle (R-EOB) of friendly and hostile radar emitters.
- Training capability for the operators based on recorded scenarios.
- Ready for remote control and monitoring.
- Integrated GIS (Geographical Information System).
- Comprehensive Built-In-Test (BIT). At start-up, continuous and on request.



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