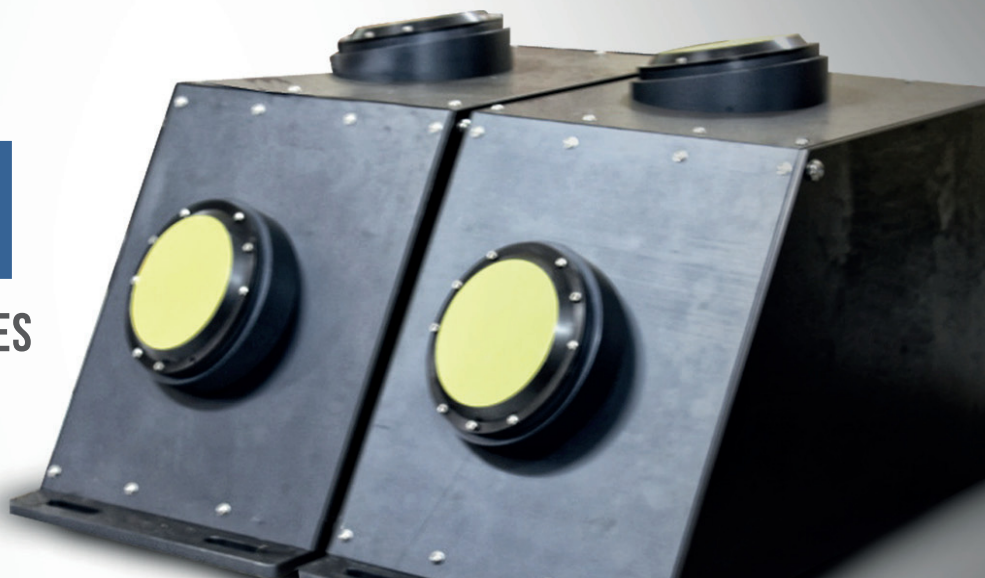


# IRCS ESM

ELECTRONIC SUPPORT MEASURES



The terms of Electronic Support Measures (ESM) describes the division of electronic warfare involving actions taken under direct control of an operational commander to detect, intercept, identify, locate, record, and/or analyze sources of radiated electromagnetic energy for the purposes of immediate threat recognition or longer-term operational planning.

The IRCS ESM system is an advanced ESM system with ELINT (Electronic Intelligence) capabilities, providing passive monitoring of the Radar emission from surveillance environment and the ability to intercept, characterize, identify and geo-locate emitters. All information is recorded for post-mission analysis. The IRCS ESM system allows for an onboard ESM operator with access to the ESM HMI (Human Machine Interface) for both high-level overview and real time analysis functions.

The library of the average processor will store radar parameters and in many cases, can be reprogrammed by the operator to store unidentified signals for later processing and analysis. The processing involved consists of three stages in series:

- Sorting of the radar pulses as they come in
- Segregation of the pulse trains
- Identification of the emitters

## GENERAL SPECIFICATION

Antenna Type	: SPIRAL
Gain	: 1 – 8 dBi
3 dB Beam Width	: 15 – 60 °
Polarization	: RHCP
Axial Ratio	: 3 dB (max)
VSWR	: 1 : 2.5 (max)
Frequency Range	: 2 – 18 GHz
Unambiguous Bandwidth	: 16 GHz
BITS	: 12
Frequency Resolution	: 4.5 MHz
Frequency Accuracy	: 6 MHz
Min Input Signal Power	: -60 dBm
Max Input Signal Power	: 0 dBm
Dynamic Range	: 60 dB

