



COMPACT ESM AND ELINT SYSTEM FOR AERIAL PLATFORMS

ELI-8395



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The ELI-8395 is a multi-role Electronic Support Measures (ESM) and Electronic Intelligence (ELINT) system designed for deployment from small crewed and uncrewed aerial platforms (Class 1 and Class 2), including small turboprop airplanes, helicopters, aerostats, drones and loitering munitions. This compact system supports aerial tactical operations with capabilities that parallel those of larger systems at a reduced cost and with exceptionally low Size, Weight and Power (SWaP).

The system detects, intercepts, geolocates and analyzes radar signals and other emitters over a wide frequency range. It supports both ESM for situational awareness and the real-time creation of an Electronic Order of Battle (EOB), and ELINT for in-depth analysis of intercepted signals using dedicated tools.

The system supports diverse operational applications:

- ISR missions for ESM/ELINT data collection and analysis
- Target generation for tactical forces
- Suppression/destruction of Enemy Air Defenses (SEAD/DEAD)
- Maritime patrol and domain awareness
- Radar Warning Receiver (RWR) for platforms such as business jets and special mission aircraft
- Force protection with threat warnings and situational awareness

The system tracks hundreds of targets in real time. It employs advanced AI techniques for real-time emitter identification, correlation and post-mission signal analysis. And it can operate in a multi-platform network for broader detection and enhanced geolocation performance.

FEATURES

- Very wide spectral coverage: 20MHz-40GHz in the extended version
- Up to 360° instantaneous coverage
- High detection sensitivity and High Probability of Intercept (HPOI)
- Highly accurate geolocation and radar signal parameter measurement
- Automatic system operation supported by AI and Machine Learning (ML)
- Software Defined Radio (SDR) allows detection algorithms updates for a dynamically changing arena
- STANAG compatibility for data dissemination and reporting

SPECIFICATIONS

Parameter	Value
Frequency Coverage	Basic range: 1-18GHz Extended range: 20MHz-40GHz
DF Accuracy	1.5° RMS
DF Methods	Interferometric DF, LB-DTOA, Monopulse DF
Sensor Dimensions	Basic sensor (1-18GHz): 191mm × 94mm × 297mm Extended frequency range sensor (20MHz-18GHz): 191mm × 142mm × 297mm
Sensor Weight	5Kg
Power	100W
Environmental Standards	MIL-STD-810, MIL-STD-461

