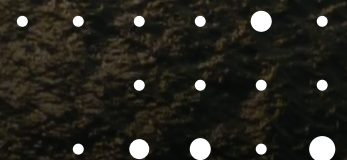




BLUESENSE

Maritime Situational Awareness
for Improved Mission Efficiency
ELI-8395



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Maritime Situational Awareness for Improved Mission Efficiency

BlueSense (ELI-8395) is a compact maritime situational awareness solution for medium to small size vessels, including OPVs, fast patrol boats, and special operations craft (SOC). BlueSense's operational capabilities parallel those of larger naval systems at a lower cost and with reduced infrastructure requirements. The highly automated system integrates passive C-ESM and R-ESM sensors that detect, track, classify and monitor communications transmissions and radar emissions originating from sea, land and airborne platforms. The incoming data is processed automatically onboard and sent to the ship's combat management system (CMS) or radar system, providing decision makers with a vital, high-quality Situational Awareness Picture (SAP) in real time to support quick and effective decision making.

MULTI-MISSION CAPABILITIES

ISR – monitors the Exclusive Economic Zone (EEZ), littoral waters and coastline. Generates an Electronic Order of Battle (EOB). Operating in passive mode allows for covert ISR missions.

Patrol – provides real time alerts for countering hostile forces, terrorists, pirates, smugglers and supports search and rescue missions.

Targeting as part of a task force – provides data to ship's CMS to cue weapons systems, radars and EO systems. Geo-locates targets when in motion, or when networked with other BlueSense systems in task force operations.

The SIGINT sensors are field-proven and are tailored to the vessel's structural and mission requirements. The solution is composed of compact Communication-Electronic Support Measures (C-ESM) and Radar-Electronic Support Measures (R-ESM) systems. The sensors can be co-located on a purpose-designed compact mast that is easily integrated on a ship's existing mast, or installed independently. It can also be configured within a shipping container for covert deployment.



The solution comprises the following:

C-ESM System for V/UHF (ELK-7071)

Intercept, analyze, identify, locate and monitor radio communications and datalinks in dense and compl

- Frequency coverage: 20-1,000 MHz
- Interferometer
- Advanced voice & data processing

R-ESM System (ELL-8385)

Intercept, analyze, identify, locate and track marine and coastline radar transmissions in a dense electromagnetic environment.

- Frequency coverage: 2- 18 GHz (optional for extended coverage)
- Instantaneous 360° wide frequency coverage
- Software defined direct digital processor

KEY FEATURES

- Powerful, compact maritime situational awareness system designed for easy installation and integration
- Combined C-ESM and R-ESM sensors improve target and AIS detection ranges by up to 150%
- Supports man in the loop / automatic operation
- Automatic identification and classification and artificial intelligence (AI) layers simplify the SAP

