



BAYNUNAH-CLASS



PROCESSING GROUP CABINET



ANTENNA GROUP

SEAL

ESM

SYSTEM



The SEAL Family of naval ESM systems offers a wide range of solutions for various classes of ships, from OPVs (Offshore Patrol Vessels) and Corvettes to Frigates, providing different levels of performance depending on ship role (patrol, task force operations, etc).

The ever-changing requirements of today's scenarios, especially in peace-keeping, law enforcement and EEZ (Extended Economic Zone) preservation operations, are demanding highly advanced ESM systems tailored to the installation constraints of even small size naval units, while ensuring high performance standards. Present-day scenarios also exhibit a high signal traffic typical of today's wide use of electronic devices/sensors, as well as extremely lethal weapon systems that can pose a serious threat to platforms lacking the necessary threat intercept and location systems.

SYSTEM HIGHLIGHTS

- Very High Probability of Intercept
- Wideband radio frequency coverage
- Automatic warning of high priority emitters
- Dedicated functions for data collection, recording and accurate processing
- Fast and unambiguous threat identification exploiting all of the measured emission parameters (e.g.: **FREQ, PW, PRI, TOA, ARP, MOP**)
- Capability to operate also with raw data libraries (mission data)
- Automatic analysis, classification, display and recording of even unknown emissions
- Capability of coping with high density environments in presence of all types of emissions both in military and law enforcement scenarios
- Accurate Intra-pulse and Inter-pulse characteristic measurements through Digital Receiver for Fingerprinting purposes
- Instantaneous Fine Direction Finding measurement
- Extensive recording capability for intelligence analysis
- High reliability and maintainability
- Reduced packaging and weight to meet even the most demanding installation constraints
- Easy field maintainability (LRU philosophy).

All versions can be integrated with ship Combat System through platform data bus.

PRODUCT SUPPORT

The SEAL family is fully supported by a complete set of product support equipment that includes:

- Field test equipment
- Ground support equipment
- Automatic test equipment
- Library programming
- Library loading/unloading