



SAAB



UME-400

Underwater maritime ESM and ELINT solutions

Effective Electromagnetic Spectrum Operations (EMSO) are crucial for naval decision-makers to maintain high confidence in situational awareness and achieve mission objectives and vessel survival.

EMSO enables commanders to:

- Detect, identify, and respond to electronic threats
- Plan and execute electronic warfare operations
- Operate effectively in contested and congested electromagnetic environments



Underwater maritime UME-400

Digital radar ESM/ELINT systems

The UME-400 family consists of a range of compact, high performance tactical ESM and ELINT systems designed to excel in contested and congested electromagnetic environments.

High confidence EMSO

Advanced Signal Intelligence Capabilities, delivered through automatic interception, analysis, and classification in congested EM environments. The ELINT capabilities provide unparalleled insights into the EMS, through detailed interpulse, intrapulse, and time analysis.

Comprehensive Data Management featuring extensive recording capabilities and seamless integration with post-mission data analysis tools, enabling thorough examination and exploitation of collected data.

Versatile and Accurate in both blue water & brown water, the system offers exceptional performance in diverse and challenging environments.

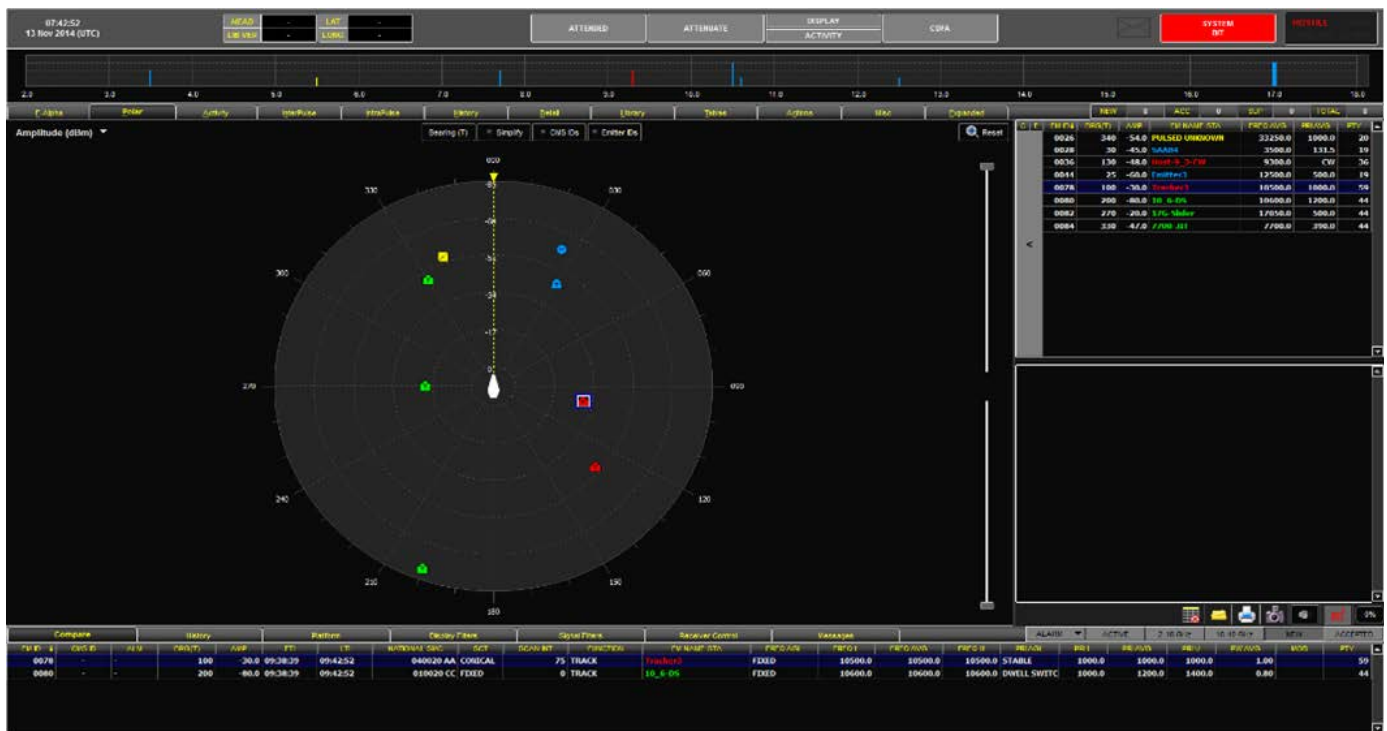
Intelligent Emitter Classification through the parallel use of both Static (national) and Dynamic (local) library files, facilitating accurate classification of radar emitters and their associated platforms.

Key operational advantages:

- Rapid interception, characterisation & classification of radar emitters
- No blind polarisations
- Operates effectively in the presence of high-power interfering signals
- Ease of operation minimises the cost of training.
- Low Size, Weight and Power (SWaP).
- Ease of installation

What sets UME-400 Series apart?

- High performance
- Small footprint
- Open architecture
- Scalable
- Modular & Containerised software



FEATURES

- 3rd generation ESM Solutions
- Wideband digital architecture
- Exceptionally high POI
- High sensitivity, wide dynamic range
- Wide operating frequency range
- Seamless operation in dense signal environment
- Fast reaction time
- Full threat identification
- Interfaces with the combat management system
- Rapid handoff to ECM
- Extensive built-in test facilities
- Extensive Recording (SDW, IQ, event)
- Library and post mission analysis tools



ESM Controller



Quantiser Unit



2-18 GHz Antenna for USVs



Extended DF Antenna

KEY PARAMETER	UME-410	UME-420	UME-450
SYSTEM TYPE:	Compact ESM	Wideband ESM with ELINT	Ultra-wideband ESM & ELINT
ARCHITECTURE:	Fully digital: Wideband acquisition and tasked DF receiver	Fully Digital: Wideband acquisition and wideband DF receiver	Fully digital: Ultra-wideband acquisition and ultra-wideband DF receiver
FREQUENCY RANGE:	2 – 18 GHz	1 – 18 GHz CD band optional, MMW optional	1 – 40 GHz CD band optional
DF ACCURACY:	< 2°rms	< 2°rms	< 2° rms
POLARISATIONS:	Dual pol	Dual pol	Dual pol
ELINT & LPI:	No	Yes	Yes
NO OF TRACKS:	>500	>500	>500
RECORDING:	Event, SDW, IQ	Event, SDW, IQ	Event, SDW, IQ



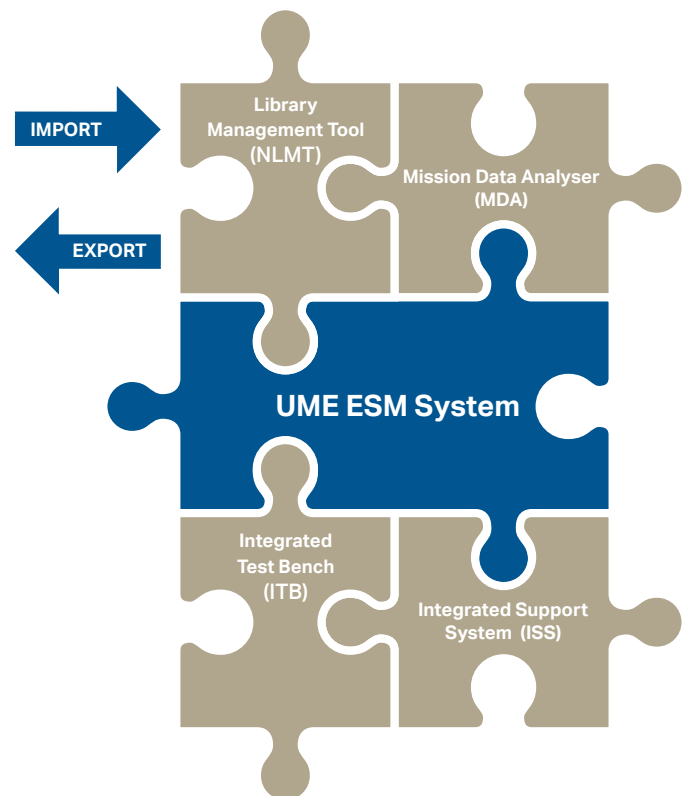
Support equipment

Naval Library Management Tool (NLMT) is a powerful tool designed to streamline the import/export of radar and laser emitter data, as well as the creation of mission files for the SME-400 system. The XML import/export enables seamless integration with customer databases and analysis tools, augmenting overall operational efficiency.

Mission Data Analyser (MDA) empowers users to analyse system recordings and entries within the dynamic database library. The MDA enables the isolation of specific operational or diagnostic recordings and provides valuable signal parameter insights.

Integrated Support System (ISS) is a laptop-based support tool that equips maintainers with the capabilities needed to perform on-board maintenance tasks. It offers manual system control, computer-assisted diagnostics & help files, ensuring comprehensive and efficient onboard maintenance.

Integrated Test Bed (ITB) provides a controlled environment for conducting System and LRU testing ashore. Its comprehensive system diagnostic and verification capability, ensure the reliability and performance of the SME-400 systems.



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