

PRISM

Passive Radar Identification System

- Australian design and developed Electronic Support Measure (ESM) system
- Automatic detection, direction finding and classification of microwave frequency emitters
- Extended situational awareness
- Immediate warning of potential threats
- High sensitivity with sophisticated processing for complex littoral environments
- Open VME systems architecture providing growth for future functionality
- Lightweight and compact

BAE Systems' PRISM family of Electronic Support Measures (ESM) comprises a series of modern, affordable equipments for shipborne and land applications. The open, VME based, systems architecture of the PRISM III ESM system supports a scalable EW capability which can be readily tailored to satisfy specific customer requirements.

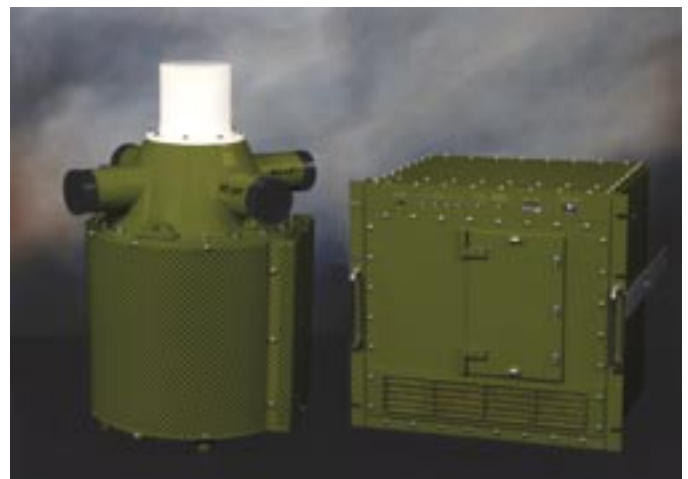
PRISM automatically detects, direction finds and classifies emitters operating in the microwave frequency band, giving extended situational awareness and immediate warning of potential threat emitters.

The system features a radar emitter library which can be easily programmed with specific and general radar types and provides threat data necessary to engage Electronic Countermeasures such as chaff or active decoys.

This latest version is installed on the Royal Australian Navy's Huon Class Minehunter Coastal vessels as an integrated part of the Anti-Ship Missile Defence System. PRISM III is also to be fitted to the RAN's new Armidale Class Patrol Boats.

PRISM is also in service with the Royal Australian Air Force's 41WG HQ Air Defence Regiment and is fitted to the Royal Australian Navy's Fremantle Class Patrol Boats.

It comprises two main assemblies; the antenna unit and signal processing unit, with an optional operator console unit for specialist EW operator positions where required.





The optional ELINT display facilitates detailed interrogation of detected emitters.



The PRISM Tactical ESM display offers superior situational awareness.

Key Features

- Open Systems architecture that utilises
- Commercial Off The Shelf PowerPC modules and operating system software
- Advanced pulse de-interleaving algorithms for fast and efficient emitter pulse train extraction
- Easy integration with other sensors, weapons, countermeasures and combat information or tactical data systems (TDS)
- Excellent sensitivity
- Easy to install and simple to operate
- Lightweight and compact
- Rugged and reliable
- Extensive BITE and diagnostic tools
- Removable media storage of the radar emitter library and operational software

Specifications

Receiver Frequencies
2-18 GHz
(Sub-bands Optional)

Coverage
360° (Azimuth) ±30° (Elevation)

DF Accuracy
Better than 10° RMS

Sensitivity
Better than -60dBm (in band)

Instantaneous Frequency Measurement (Optional)
Frequency Coverage: 2-18GHz
Resolution: 1MHz

Weight
Antenna Unit (AU): 36kg
(31kg less Optional IFM)
Signal Processor Unit (SPU): 31kg

Size (mm)
AU: 663 H x 500 Dia
SPU: 444 H x 645 D x 483W

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