Raytheon

AN/SLQ-32(V)5
Shipboard ECM System

The AN/SLQ-32(V)5 Electronic Countermeasures System offers powerful protection for small and mid-sized ships. It detects and identifies threats, confuses targeting radars, and diverts launched missiles from hitting their target.

Benefits

- Full-threat band frequency coverage
- 360° instantaneous azimuth coverage
- 100% probability of intercept
- Simultaneous response to multiple threats
- Cost-effective implementation and support

Powerful Protection for Smaller Ships

The AN/SLQ-32(V)5 Electronic Countermeasures (ECM) System provides powerful protection for small and mid-size combat ships. Designed to prevent surprise attacks, the system adds "Sidekick" multibeam array/active jamming technology to SLQ-32(V)1 and (V)2-equipped combatants, substantially enhancing their defensive capabilities.

Even in an environment crowded with emitters, the AN/SLQ-32(V)5 detects aircraft search-and-target radars long before they can detect the ship. It also detects similar surface-ship and submarine radars beyond the radar horizon. Once it detects and identifies the threat, the system instantly responds to confuse targeting radars and divert launched missiles away from their target.

Raytheon has built AN/SLQ-32 electronic warfare systems for the U.S. Navy for over 20 years. The AN/SLQ-32(V)5 was developed to meet the electronic defense needs of its smaller ships — in the 900 to 4500 ton range — with a highly flexible, supportable, and cost-effective solution.

Multibeam Antenna Technology

Raytheon's lens-fed multibeam array is the key feature of its AN/SLQ-32 product family. The AN/SLQ-32(V)5 adapts this technology to the small to mid-size ship by using smaller, lighter, solid-state components.

The system's multibeam architecture allows its ECM transmitter to produce very high-noise, jamming effective radiated power (ERP), preventing burn-through of a typical targeting radar until its source is within the hard kill envelope. Typical anti-ship missile radars will not burn through this jamming power until they can no longer adjust their flight path sufficiently to hit the ship.

The lens-fed multibeam array generates very high jamming power at continuous wave, so virtually unlimited variety of jamming techniques can be used. Many radars of different types, and on different bearings, can be simultaneously engaged, each with a different jamming waveform.

Superior Identification and Response

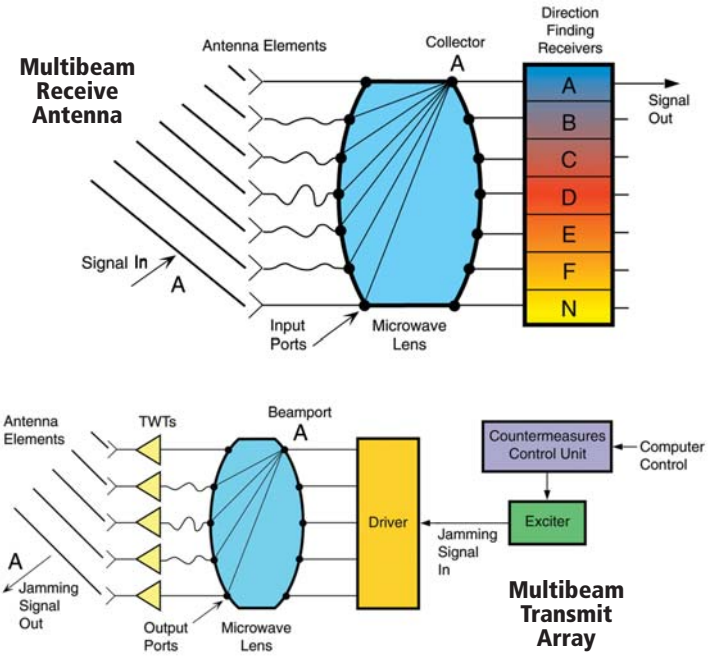
The AN/SLQ-32(V)5's reprogrammable on-line library can hold parameters of all modes of emitters, even in the most dense scenario. Should ambiguous identification occur, its identification algorithms treat any emitter as the most threatening of the possible matches.

The system's rapid response time ensures that jamming

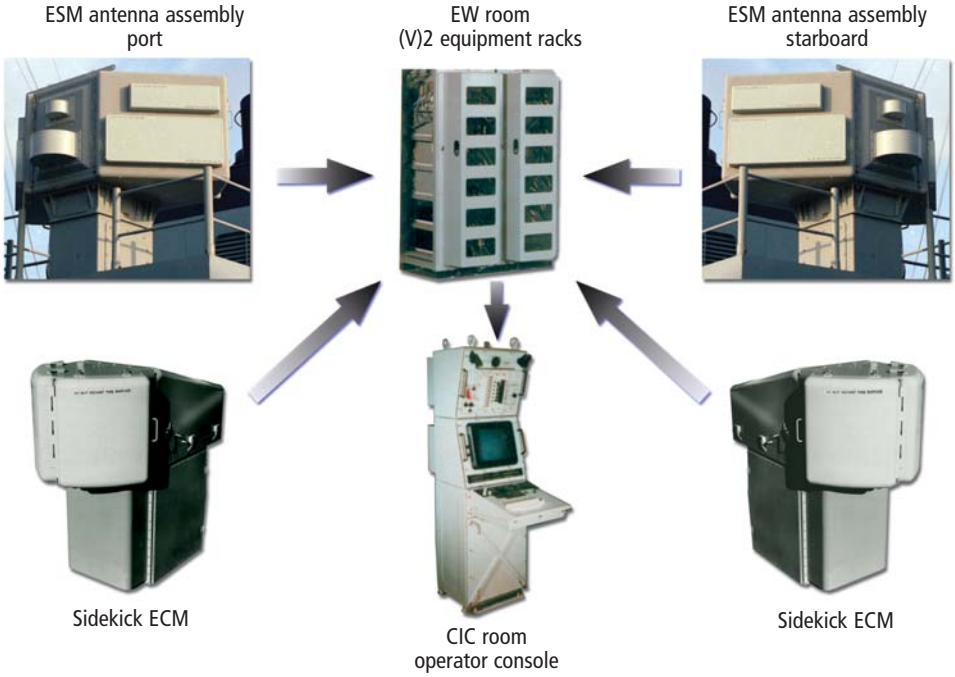
protection is applied in time to prevent long range targeting of the ship, or to deceive a missile launched against the ship.

Easy, Cost-Effective Installation
Separate ECM and ESM (electronic support measures) enclosures are located above deck, allowing both installation flexibility and 100% look-through between isolated transmit and receive antennas. Below deck, the system requires only two racks of electronics and a display console.

Minimal Support Requirements
The AN/SLQ-32(V)5's high reliability and graceful degradation ensure minimal support requirements. In addition, Raytheon Company offers worldwide support service and repair within hours of any navy port.



AN/SLQ-32 multibeam technology features.



The AN/SLQ-32(V)5 features separate ECM and ESM enclosures above deck for flexible, cost-effective installation.

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