

LOCKHEED MARTIN 



AN/BLQ-10(V)

SUBMARINE ELECTRONIC WARFARE SYSTEM

Photo by: Navy.mil

AN/BLQ-10(V) Submarine Electronic Warfare System

Real-time EW situational awareness for electromagnetically-dense maritime battlespaces.

No platform provides assured access like a U.S. Navy submarine. The AN/BLQ-10(V) Electronic Support (ES) system helps meet the challenges of today's and tomorrow's Navy with a proven, low-risk, and affordable Electronic Warfare (EW) system, providing critical analysis in an uncertain and dynamic environment.



EMPOWERING SUBMARINES TO SEE FIRST IN THE MARITIME DOMAIN—LITTORAL AND OPEN WATER—WITH THE LOCKHEED MARTIN AN/BLQ-10(V) SUBMARINE ELECTRONIC WARFARE SYSTEM.

AN/BLQ-10(V) Features

Flexible Open Architecture for Agile Growth

A secure, modular, open architecture design ensures that the AN/BLQ-10(V) Electronic Warfare System remains viable in an increasingly crowded maritime electromagnetic environment. Using an agile framework layered with DevSecOps and containerized software allows for the rapid insertion of new capabilities to continuously improve the AN/BLQ-10(V) system.

Built-In Cyber Resilience

Lockheed Martin designs, integrates, and validates comprehensive cybersecurity solutions that harden the AN/BLQ-10(V) system, ensuring it meets the highest standards for confidentiality, integrity and availability and supporting government approval for operation.

Full Spectrum Radar Processing

The AN/BLQ-10(V) system processes hostile, neutral, and friendly emissions.

Automatic Threat Warning and Situation Assessment

As a mission enabler, the system offers submarine commanders a full range of tools to aid rapid reaction to dynamic situations.

Extensive COTS and NDI Hardware and Software

Lockheed Martin has successfully defined and integrated extensive COTS and NDI hardware and software, adapted to meet the Navy's affordability goals, while satisfying the fleet's operational requirements.

System Engineering and Integration — Second to None

The Lockheed Martin approach is top down, balancing requirements with development and life cycle costs. We have successfully defined and integrated AN/BLQ-10(V) during concurrent development of other submarine subsystems including masts, antennas, exterior communications, sonar, and other SWFTS ship systems.

Automatic Detection, Acquisition, Identification, and Localization

Submarines require organic, tactical ESM and reconnaissance capability to ensure operational effectiveness. The AN/BLQ-10(V) rapidly receives, analyzes, and reports critical signals of immediate importance to the submarine commanding officer. Key to the AN/BLQ-10(V) tactical utility is a robust interface with the non-propulsion electronic systems tactical network.

AN/BLQ-10(V)

Operator Displays and Reports

Mission Tasking

- Threat Warning/Mission Tasking Display
- 2nd Tier Tasking Display

Quick Search Primary Threat Warning

- Signal Alerts and Summary Display
- Early Warning Panel

Quick Search Secondary Threat Warning

- Geographic Display
- Identification Confidence Display

Precision and Communications Direction Finding

- Signal Alerts and Summary Displays
- Geographic Display
- DF Plots Display

Reports Display

- Signal Alerts and Summary Display

Analysis/Situational Assessment

- Signal Exploitation
- Receiver Control
- Contact Manager
- Geographic Situation
- Non-Interest Signals