



AN/ALQ-210

ELECTRONIC SUPPORT MEASURES

SITUATIONAL AWARENESS AND THREAT WARNING

LOCKHEED MARTIN

We never forget who we're working for®





ACCURATE IDENTIFICATION. RAPID RESPONSE TIME. PASSIVE LOCATION.

The multi-mission AN/ALQ-210 Electronic Support Measures (ESM) system provides proven situational awareness and threat warning with Electronics Intelligence (ELINT) quality measurement accuracy in complex and dense electronic battlefield scenarios. The AN/ALQ-210 Electronic Support Measures subsystem continues Lockheed Martin's 40-year history of developing, fielding and supporting products to meet the needs of the modern warfighter.



OPERATIONAL OVERVIEW

The AN/ALQ-210 ESM system performs situational awareness and threat warning functions simultaneously. The system autonomously scans the environment allowing for a high probability of detection and accurate identification. The system operation is completely tailorable through Mission Data Loads which can be reloaded in flight for adapting to each specific geographic region. Systems with architectures derived from the AN/ALQ-210 are in development for both rotary and fixed wing platforms.

ADVANTAGES

The system architecture was designed to provide the network-centric construct necessary to support the following functions and missions:

- Intelligence surveillance and reconnaissance
- Threat warning
- Anti-submarine warfare
- Suppression of enemy air defense
- Strike targeting missions
- Situational awareness
- Armed surveillance
- Anti-ship warfare

A downloadable emitter library (mission data load) is used to dynamically configure the system to optimize performance for specific mission objectives. The AN/ALQ-210 ESM system, as installed on the MH-60R platform, has completed successful operational flight test and is currently in full rate production for the U.S. Navy and International customers.

PERFORMANCE

Our experience on ground, naval, and airborne platforms provides the essential skills to develop and seamlessly integrate an ESM subsystem into platforms. As both an ESM subsystem supplier and an avionics system integrator, Lockheed Martin has a complete understanding of the ESM mission and interoperability between the ESM and other platform subsystems.

FEATURES

- Rapid response time
- Unambiguous identification and reliable threat warning
- Accurate angle of arrival and geo-location
- ELINT quality measurements
- Simultaneous ESM and threat warning functions
- Programmable emitter library
- Automatic cueing of countermeasures
- Self-calibrating for optimal signal collection
- Built-in diagnostic test capability
- Open architecture with latest multi-core processor

BENEFITS

- Improved survivability
- Enhanced and timely situational awareness
- Fully autonomous - reduced operator workload
- Increased mission effectiveness

| DESCRIPTION | ANTENNA WRA | R/P WRA |
|---------------------|---------------------|----------------------|
| System MTBF (hrs) | >2400 | |
| System WRA Quantity | 4 | 1 |
| Power (watts) | 0 | 400 |
| Size (in.) | 12.42 x 15.1 x 9.56 | 7.772 x 10.15 x 15.3 |
| Weight (lbs) | 15.4 per WRA | 56.6 |
| Cooling | None Required | Internal 400 Hz Fan |



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