Our advanced naval sensors provide enhanced situational awareness in the most demanding environments.

AWS-10 is a new medium range, 2D air and surface surveillance radar designed for a wide range of naval and coast guard vessels.

Above decks

Below decks

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Key performance benefits
• Delivers high quality track data
• Significant contribution to tactical situational awareness in primary sensor role
• Excellent performance during precipitation and high sea states
• Fast inshore attack craft and small airborne target detection in clutter
• Fully frequency agile - optimises performance in hostile ECM environment
• Low masthead mass and extremely compact below decks envelope
• Optional high power transmitter.

Functional aspects
• 2D general air and surface surveillance
• Back-up navigation surface surveillance
• Proven integration with existing combat systems

Antenna
- Ultra-low weight design < 250 kg (including turning unit)
- Type: Slotted waveguide array
- Horizontal beamwidth: 1.9°
- Antenna rotation rate: 15 rpm

Transmitter
- Frequency band: E/F band
- Type: Solid state transmit module
- Peak power:
  - Standard: 2 kW (nom.)
  - High power: 15 kW (nom.)
- Duty cycle: 10% max.

Technical data
• Four operating modes all at 15 rpm
• Fully automatic detection and tracking.

Low through-life costs
• Designed utilising commercial components to provide high operational availability
• Inherently high reliability
• MTBCF > 4000 hours
• MTTR < 30 minutes
• Low operational maintenance requirements
• Comprehensive on-line fault detection and diagnosis
• A software-centric radar, enabling ease of capability upgrade.

Performance data
- Maximum instrumented range: 180 km
- Maximum elevation coverage: > 25°
- Minimum range: < 250 metres
- Tracking capacity: > 800 targets (air & surface)
- Azimuth accuracy: 0.4°
- Azimuth resolution: 3.7° (98%)

Track declaration range
- Standard:
  - Aircraft: > 125 km > 175 km
  - Helicopter: > 75 km > 100 km
- High:
  - Aircraft: > 125 km > 175 km
  - Helicopter: > 75 km > 100 km

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