

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.

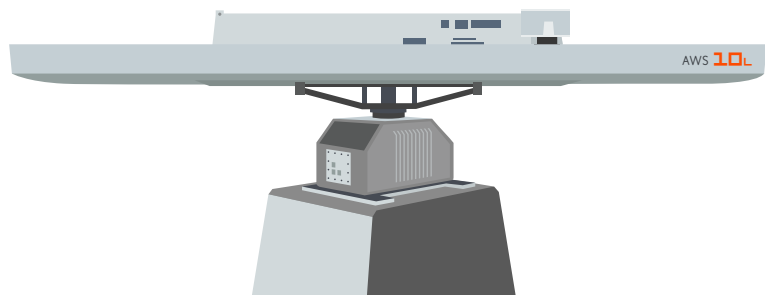
Extremely light weight above decks yet class leading performance through the use of solid state transmitter, high end receiver technology (shared with ARTISAN and SAMPSON radars), and advanced signal processing techniques.

Effective for Air Search, Surface Search, Helo Control and Gun Control Support. Recommended for Fast Patrol Boats, Mine Counter Measure Vessels and light OPVs.

AWS-10L Naval Radar

Advanced Naval 2D S band surveillance

baesystems.com/radaruk



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

Functional aspects

- 2D general air and surface surveillance
- Back-up navigation surface surveillance
- Proven integration with existing combat systems
- Options for sensor integration (IFF, electro-optics, navigation radar)

Processing

- High-speed FPGA-based digital signal processing
- Digital pulse compression
- Advanced adaptive clutter suppression processing (MTD and MTI with doppler)
- Advanced, multi-hypothesis track extraction
- Optimised for helicopter air traffic management.

Installation

- Compact installation envelope on a wide range of vessels from Fast Patrol Boats, Mine Counter Measure Vessels and light OPVs.
- Installation and commissioning can be achieved during normal ship re-fit period.

Technical data

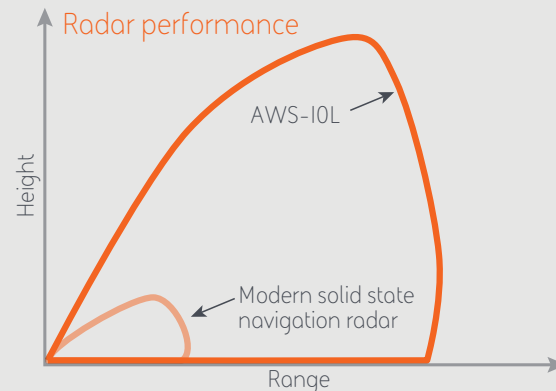
- Four operating modes all at 15 rpm
- Fully automatic detection and tracking.

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%)
Elevation accuracy:	n/a
Track declaration range:	
- Maritime aircraft	> 85 km
- Missile	> 30 km
- Helicopter	> 65 km



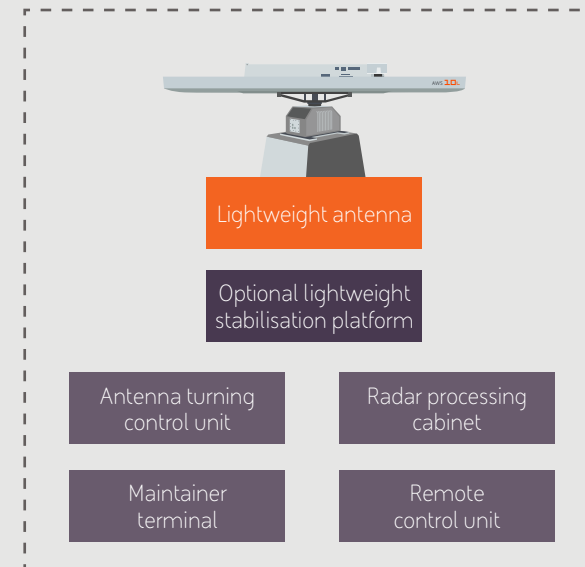
Antenna

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

Transmitter

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

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