

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

AWS-30 is a new medium range, 3D air and surface surveillance radar designed for a wide range of naval and coastguard vessels.

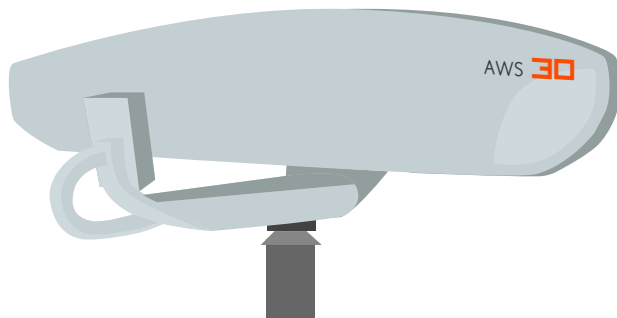
Selected for the UK Royal Fleet Auxiliary the AWS-30 offers a cost effective package and unparalleled performance.

Effective for Air Search, Surface Search, Gun Control, Helo Control and Air Traffic Management. Recommended for Support Ships, Auxiliary Ships and OPVs.

AWS-30 Naval Radar

Advanced Naval 3D S band surveillance

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Key performance benefits

- Delivers track quality required for air traffic management
- Significant contribution to tactical situational awareness during primary sensor role
- Excellent performance in 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
- Non-stabilised options available

Functional aspects

- 3D general air and surface surveillance
- Back-up navigation surface surveillance
- Integrated IFF/SSR antenna (Mode S compatible)
- 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)
- Advanced, multi-hypothesis track extraction
- Optimised for helicopter air traffic management.

Installation

- Compact installation envelope on a wide range of vessels from Support Ships, Auxiliary Ships and 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 using 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:	> 40°
Minimum range:	< 250 metres
Tracking capacity:	> 800 targets (air & surface)
Azimuth accuracy:	0.35°
Azimuth resolution:	3.25° (98%)
Elevation accuracy:	< 2°
Track declaration range:	
- Maritime aircraft	> 100 km
- Missile	> 35 km
- Helicopter	> 75 km

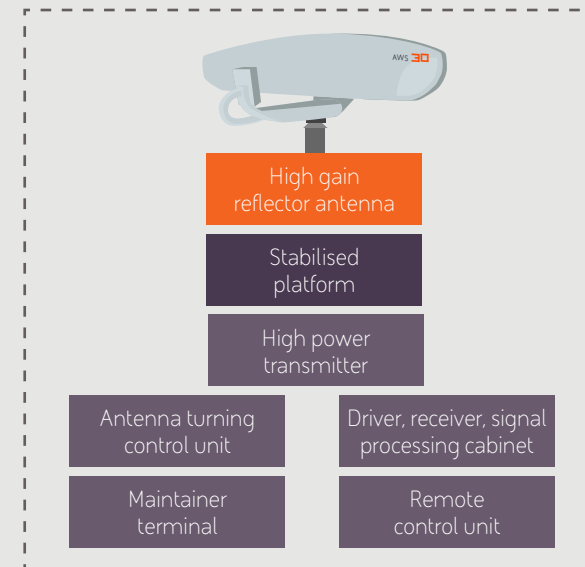
Antenna

Low weight design: (including stabilised turning unit)	< 800 kg
Type:	Shaped-beam (cosec ²) reflector
Horizontal beamwidth:	1.65°
Antenna rotation rate:	15 rpm
Stabilisation:	Mechanical

Transmitter

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

Low cost 3D option providing long range performance through use of high gain antenna, solid state transmitter, high end receiver technology (shared with ARTISAN and SAMPSON radars), and advanced signal processing techniques.



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