

Maritime Services' sensor systems deliver superior situational awareness and targeting solutions.

Artisan is in service as the Royal Navy's new medium range surveillance, target designation and air traffic management radar for surface ships.

It has been selected for the UK Ministry of Defence's new Type 26 Global Combat Ship.

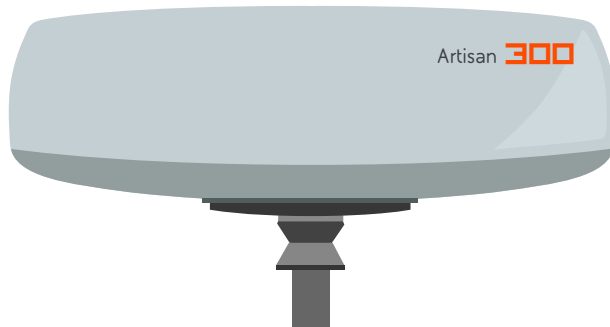
Artisan 300 optimises medium-to-long range air and surface surveillance plus weapon systems target designation. Developed from proven technology, its architecture is future-proofed.

Effective for Air Search, Surface Search, Helo Control, Air Traffic Management, Gun Control Support, and Missile Cueing. Recommended for Corvettes and Frigates.

Artisan 300 radar

Advanced Naval 3D S band surveillance

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Key performance benefits

Realises full potential of modern anti-aircraft warfare (AAW) missile systems and is adaptable for future ship defence weapon systems

Provides unrivalled performance in the littoral, particularly fast inshore attack craft and small airborne targets detection in clutter

Makes significant contribution to tactical situational awareness in primary sensor role

Electronic protection measures maintain detection ranges even when attacked by complex jammers

Delivers track quality required for air traffic management

Electronic stabilisation gives a smaller, lighter masthead envelope and higher reliability

Provides secondary navigation capability

A software-centric radar, enabling ease of capability upgrade.

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Functional aspects

- 3D air surveillance with fast target alerts
- Secondary navigation surface surveillance
- Jammer suppression and surveillance
- Identification friend or foe (IFF) interrogation support
- Missile system support
- Proven integration with existing combat systems.

Processing

- Digital adaptive beamforming
- Digital pulse compression
- Doppler processing using MTD filters
- Advanced track extraction
- Sophisticated classification support
- Optimised for weapon system performance.

Technical data

- Three operating modes all at 30 rpm:
 - Littoral water defence
 - Long range
 - Air Traffic Management
- Fully automatic detection and tracking
- Unique to class digital adaptive beamforming provides immunity to jamming and interference.

Low through-life costs

- Designed utilising commercial components to provide high operational availability and reliability
- Support Model Options benefiting from availability contracting approach
- MTTR < 30 minutes
- MTBCF > 5000 hours.

Performance data

Maximum instrumented range:	> 200 km
Maximum elevation coverage:	> 70°
Minimum range:	< 200 metres
3D tracking capacity (air & surface):	> 1000 targets
Elevation accuracy:	0.6°
Track declaration range:	
- Maritime aircraft	> 200 km
- Missile	> 55 km

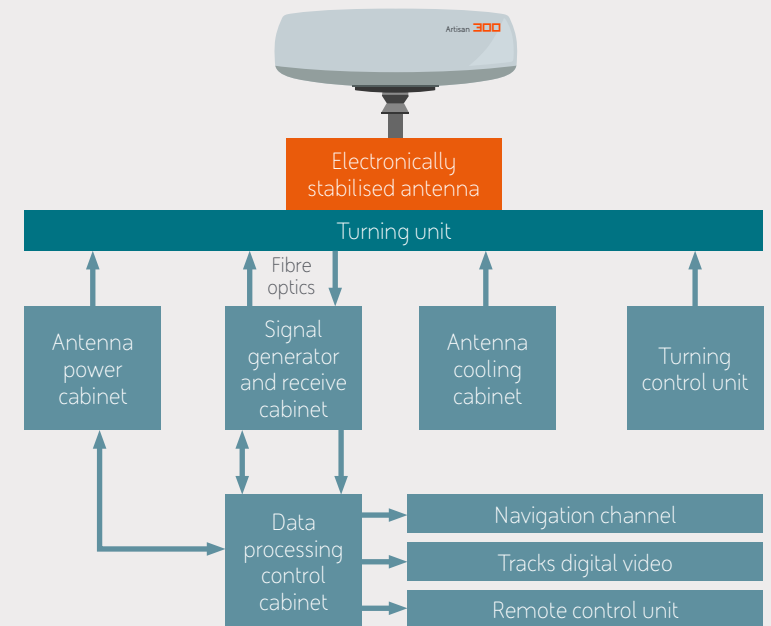
Antenna

Low weight design:	< 900 kg
Horizontal beamwidth:	< 2.0°
Antenna rotation rate:	30 rpm
Stabilisation:	Electronic
Low sidelobes	
Built in sidelobe blanking	
Air cooled	

Transmitter

Frequency band:	E/F (S-band)
Type:	Solid state transmit modules
Transmitter modes:	minimum navigation mode or full power
Frequency agile	

Based on the proven ARTISAN 3D radar with 20 systems in service. This latest version has high levels of range and accuracy and is currently in manufacture for the UK Royal Navy's Type 26 frigate.



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Radar

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