

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.

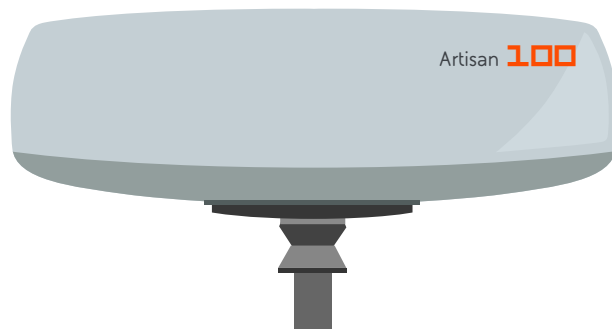
Artisan 100 optimises medium range air and surface surveillance. Developed from proven technology, its architecture is future-proofed.

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

## Artisan 100 radar

Advanced Naval 3D S band surveillance

[baesystems.com/radaruk](https://baesystems.com/radaruk)



### Key performance benefits

Provides unrivalled performance in the littoral, particularly surface craft and small airborne target 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

Can be easily upgraded to ARTISAN 200 or 300 through additional spares and software 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
- Gun control 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.

### 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.

### Performance data

Maximum instrumented range:	> 200 km
Maximum elevation coverage:	> 70°
Minimum range:	< 200 metres
3D tracking capacity (air & surface):	> 1000 targets
Elevation accuracy:	1.8°
Track declaration range:	
- Maritime aircraft	> 110 km
- Missile	> 35 km

### Antenna

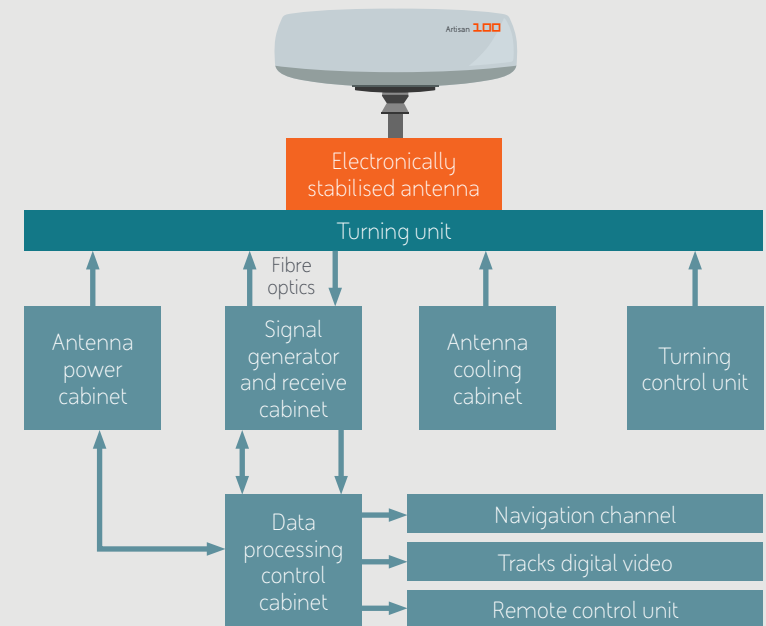
Low weight design:	< 730 kg
Horizontal beamwidth:	< 2.0°
Antenna rotation rate:	30 rpm
Stabilisation:	Electronic
Low sidelobes	
Built in sidelobe blanking	
Air cooled	

### Transmitter

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

Based on proven ARTISAN performance, the Artisan 100 shares high end receiver technology and signal processing techniques with SAMPSON MFR to provide excellent electronically stabilised 3D performance at a low cost.

Can be easily upgraded to ARTISAN 200 or 300 through additional spares and software upgrade.



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