SMARTS Mk2 is a modern naval air and surface surveillance radar that applies the unique multi-beam concept. Its high reliability and stealth target detection, even in cluttered environments, support long missions and operation in littoral environments. The SMARTS Mk2 is very easy to operate by only two fully automatic operational modes. Furthermore the SMARTS Mk2 is easy to install and integrate and easy to maintain.

- Excellent performance in the littoral environment
- Situational awareness and fast target acquisition
- Easy to operate and maintain
- High reliability to support long missions
- Sea proven and an extensive sales record
SMART-S Mk2
3D Surveillance Radar

Main Features
- Multi-beam with full Doppler processing within each beam
- Two operating modes: Surveillance and Defence
- Fully automatic detection and tracking of air and surface targets
- Dedicated ECCM techniques
- Multipath suppression using beams under the horizon
- Graceful degradation thanks to multiple solid-state transmitters

Functional Aspects
- 3D Air Surveillance with Fast Target alerts
- Surface Surveillance
- Surface Gun Fire Support
- Jammer Surveillance
- IFF Interrogation Support

Performance Data
- Maximum Instrumented range : 250 km
- Maximum elevation coverage : 70 degrees
- Minimum Range : 150 meters
- Tracking 3D capacity (Air+Surface) : 500 targets
- Surface Fire Control Windows : 3
- Elevation accuracy : < 10 mrad
- Bearing accuracy : < 5 mrad
- Range accuracy : < 20 meters
- Detection performance:
  - Small missile : ~ 50 km
  - MPA : ~ 200 km

Technical Data
System:
- Two operating modes: medium range up to 150 km at 27 RPM and long range up to 250 km at 13.5 RPM
- Fully automatic detection and tracking
- Dedicated ECCM techniques

Antenna:
- Horizontal beamwidth : approx. 2 degrees
- Illumination patterns : Wide beam and Narrow beam
- Antenna rotation speed : 13.5/27 RPM
- Stabilisation : electronic
- Very low sidelobes
- Integrated IFF antenna

Transmitter:
- Frequency band : E/F-band (excl. ATC and communication bands)
- Type : Solid State transmit modules integrated in Antenna
- Transmitting modes : sectorwise reduced or full power
- Broadband frequency operation and frequency agility