

SCANTER 4100 Series Naval Surveillance Radars	SCANTER 4102
Featuring Air Situational Awareness, Medium range coverage (90 nmi) Surface Situanal Awareness (to radar horizon) UAV and Helicopter control	•
Techniques 2-D, Fully Coherent, Software Defined Functionality, TWT, Pulse Compression Radar Frequency Diversity and Time Diversity with Automatic Adaptation to the environment Normal radar ant MTI processing FiveStepVideoPassing™ Track-While-Scan support Multi-profile operation optimized for customer application, max. 16 profiles Two-channel simultaneous processing (Surface & Air) Advanced Integrated BITE system	
Frequency Programmable frequencies within 8850-9000 MHz, X(I)-Band	•
TWT Transmitter 12kW Peak Power, 600W Average power Sector Transmission	:
Receiver Dynamic range ≥120dB, Digital sampling on IF	•
Embedded tracker Surface targets, max. 500 tracks Air targets, max. 100 subsonic and supersonic tracks	:
Interfaces Interfacing with standard protocols (Ethernet, RS232, RS422) Simple interface implementation (ASCII, NMEA)	:
Design Air-cooled racks (below deck) Water-cooled racks (below deck)	•
Antenna Systems 10', 12' or 15' High Gain HP/CP antenna, 8-46 RPM Integrated IFF antenna Stabilizing platform	• 0 0



Terma A/S

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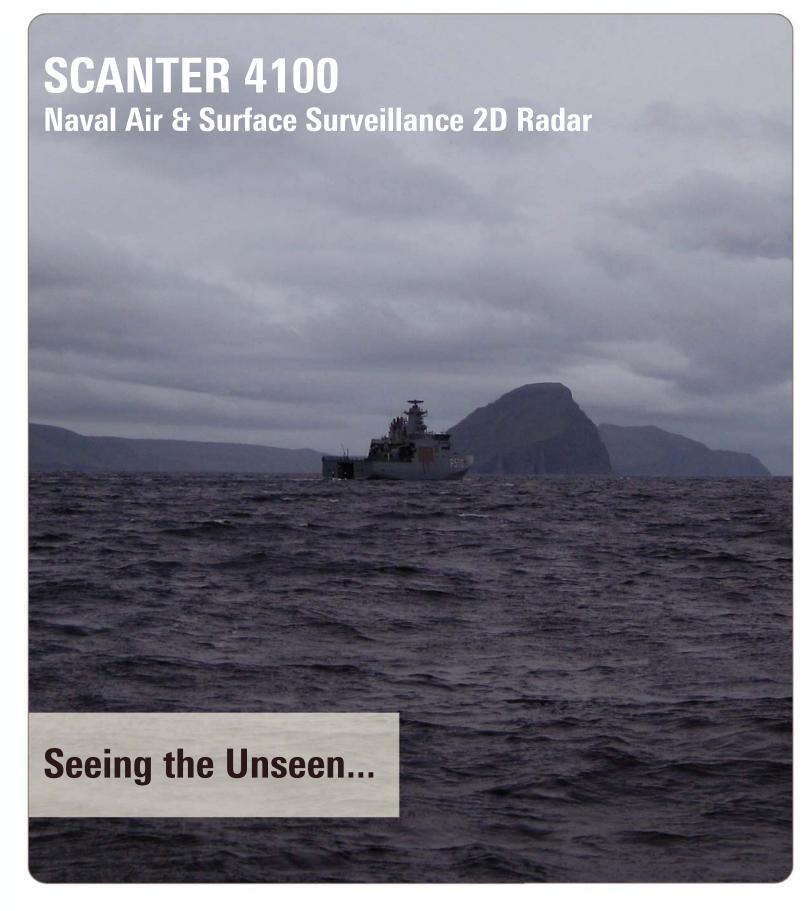
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• Standard O Optional







SCANTER 4102 Naval Air & Surface Surveillance RadarThe SCANTER 4100 enables the user to detect and track both air and surface targets under difficult sea and weather conditions.

Terma SCANTER Radar Systems excel in signal processing. This, combined with frequency diversity and time diversity in the X-band, enables the SCANTER 4100 to provide a clear and highly detailed situational awareness picture.

Operational tasks

The SCANTER 4100 supports naval as well as enforcement tasks e.g.:

- Early detection of small surface threats
- Medium range 2D air surveillance
- UAV and Helicopter control
- Missile detection
- Track information for weapon systems
- General Air and Surface Situational Awareness
- Search and Rescue

Versatile and Flexible Radar

The Radar System can be configured with different antenna systems e.g. 10, 12 or 15ft antennas with or without stabilizing platform and integrated IFF antenna.

The SCANTER radars can easily be integrated with the customer's Command Management System or Fire Control System. The Radar system can also be supplied with a dedicated radar console.

Designed for Naval and Coast Guard vesselsSCANTER 4100 Naval Air & Surface Surveillance 2D
Radar is often used on several ship classes e.g.:

- Offshore Patrol vessels
- Large Support ships
- Landing platforms
- Corvettes / Frigates





Surface Surveilance

The SCANTER 4100 provides unsurpassed surface detection and tracking capability of small targets from close range and up until the radar horizon in all weather conditions.

Air Surveillance

The SCANTER 4100 provides a 2D Air surveillance picture up to 90 nmi and 35.000ft. It can track both subsonic and supersonic aircraft.



SCANTER 4102 Transceiver & Utility racks with water-cooling Dimensions: H: 2067 mm, D:1287 mm, W:1210 mm

UAV and **Helicopter** control

It supports operation of both UAVs and helicopters. Helicopters can be detected beyond 30 nmi and followed onto close proximity to the ship (150m).

Missile detection

The SCANTER 4100 is able to detect incoming seaskimmer missiles allowing for timely counter measures.

Track information for weapon system

The accurate tracker allows for transmission of target data to the Command Management System or Fire Control System for target designation.

Situational Awareness

The high resolution picture of both air and surface provides the operator with an excellent general situational awareness picture for self protection.

Search & Rescue

The combination of detection of small surface targets and helicopter control makes the SCANTER 4100 extremely well-suited for supporting SAR.

