

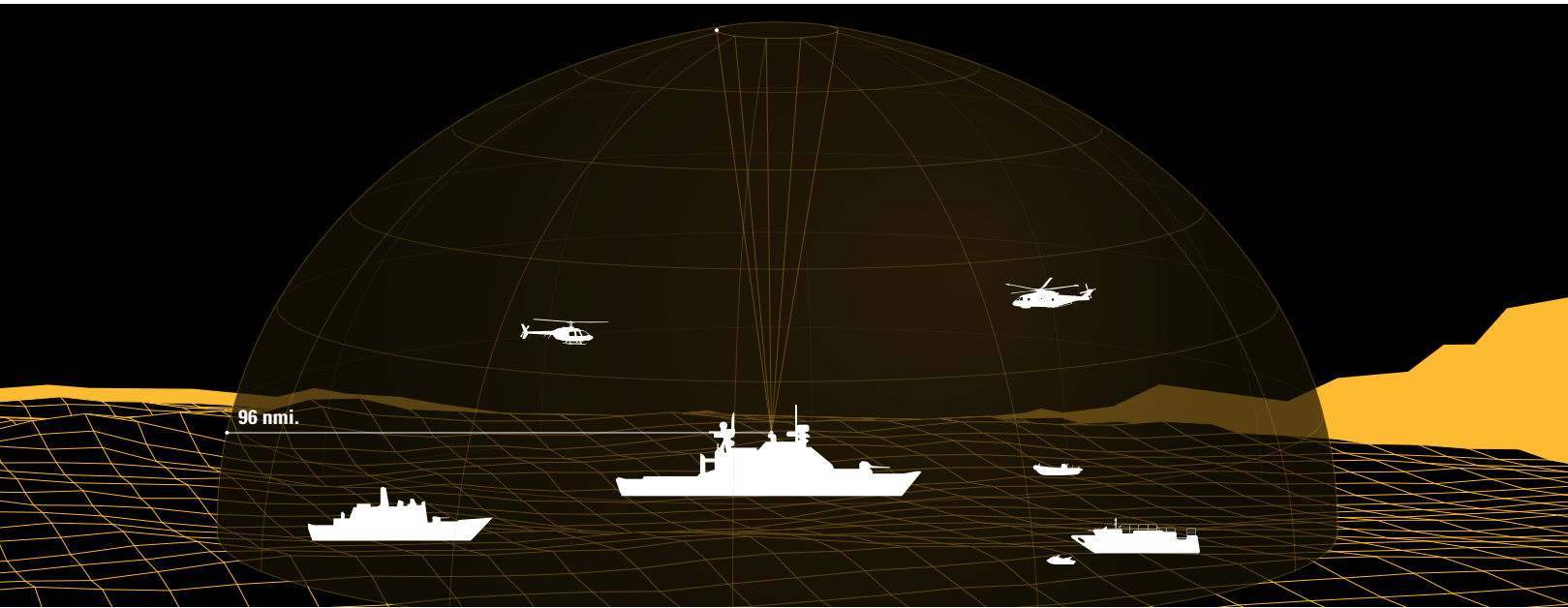


# Naval Surveillance Radar

## SCANTER 6002



**TERMA<sup>®</sup>**  
NORTH AMERICA



Maneuvering helicopter



Crisp and clear radar video from a SCANTER 6002



# Naval Surveillance Radar

The SCANTER 6000 radar series offers superior detection and tracking capabilities of small surface targets and of air targets in the near airspace around the vessel. The Surface Surveillance capabilities of the SCANTER 6000 series are ideal for search-and-rescue operations and law enforcement tasks, e.g. control of illegal immigration, smugglers, and piracy. Thus, the SCANTER 6000 series is a major contributor to the Situational Awareness picture for all types of vessels from Border Police and Patrol Vessels to Frigates.

## High Performance Navigation Radar

The SCANTER 6002 radar is fully integrated with various renowned marine navigation display applications, providing enhanced support for safe navigation and collision avoidance beyond the capability of standard navigation radar systems.

The SCANTER 6002 is IMO certified. Hence, the system configuration meets the latest performance standards of the International Maritime Organization and International Electrotechnical Commission (IMO). The SCANTER 6002 provides improved small target detection and automatic environmental adaptation for enhanced detection performance in all weather conditions.

## Operational Capabilities

### Surface Surveillance

The SCANTER 6000 series provides superior surface patrolling capabilities by detecting and tracking small targets from the vessel side and all the way to the radar horizon – delivering uninterrupted, all-weather Surface Surveillance.

### Monitoring Near Airspace

The SCANTER 6000 series monitors the near airspace around the vessel and is capable of detecting and tracking helicopters, propeller, and jet aircraft out to 10-15 nmi and up to 6000 ft. altitude providing low airspace monitoring and surveillance.

### Helicopter Control

The SCANTER 6000 series enables the vessel to control a helicopter in its short range operations, allowing for landing control on own ship or at remote locations, significantly increasing the operational capabilities of the vessel.

## Product Characteristics

The advanced digital signal processing combined with antenna characteristics (including high gain and narrow beam) delivers unparalleled spatial resolution.

### IFF Integration

The SCANTER 6002 based radar systems can host various IFF interrogators and provide interface via a CMS system, thus supporting full advisory and positive aircraft control.

### Automatic Environmental Adaptation

To provide a confident domain awareness around own unit, regardless of weather conditions, SCANTER 6000 comes with adaptive suppression of sea and land clutter reducing the load on the operator. The result is a clear, high-resolution situational awareness picture.

### Tracking

The built-in Embedded Tracker takes advantage of automatic clutter estimation (Terma patent), an Interacting Multiple Models (IMM) track estimation, and Multi-Hypothesis Tracking (MHT) to provide a high-quality situational awareness picture.

### Electronic Counter-Countermeasure

All SCANTER naval radars come with ECCM (Electronic Counter-CounterMeasure) anti-jamming features for increased platform effectiveness and protection of own platform. Jamming from EW equipment is suppressed by using e.g. low-side-lobe antennas, waveform diversity, pulse compression, reduced power sectors, spread spectrum transmission, interference filtering, and Pulse Repetition Frequency (PRF) staggering.

### Low Life Cycle Cost

The SCANTER 6002 radar relies on GaAs solid state technology to boost performance and reduce maintenance requirements. Line replaceable units are used throughout the family of sensors, ensuring long time sustainment and low life cycle costs. GaAs solid state technology provides an MTBF/MTBCF 3 times better than competing technologies.

### Proven Track Record

Terma has more than 60 years of Surveillance & Mission Systems experience and more than 3,000 radar systems in service worldwide. Navies, Coast Guards, and other high-demanding authorities around the world rely on our high resolution surveillance capabilities for securing the maritime domain and the sea lines of communication.

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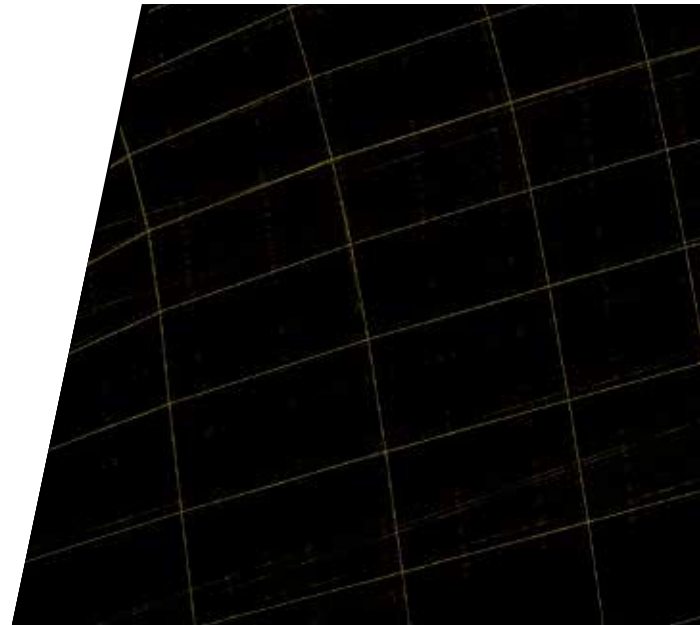
Operating in the aerospace, defense, and security sector, Terma supports customers and partners all over the world. With more than 1,500 committed employees globally, we develop and manufacture mission-critical products and solutions that meet rigorous customer requirements.

At Terma, we believe in the premise that creating customer value is not just about strong engineering and manufacturing skills. It is also about being able to apply these skills in the context of our customers' specific needs. Only through close collaboration and dialog can we deliver a level of partnership and integration unmatched in the industry.

Our business activities, products, and systems include: command and control systems; radar systems; self-protection systems for ships and aircraft; space technology; and advanced aerostructures for the aircraft industry.

Terma has decades of hands-on know-how in supporting and maintaining mission-critical systems in some of the world's most hostile areas. Terma Support & Services offers Through Life support of all our products to maximize operational availability, enhance platform lifetime, and ensure the best possible cost of ownership.

Headquartered in Aarhus, Denmark, Terma has subsidiaries and operations in the Netherlands, Germany, Belgium, UK, France, UAE, India, Singapore as well as a wholly-owned U.S. subsidiary, Terma North America Inc. Terma North America Inc. is headquartered in Arlington, in the Washington D.C. area, with other offices in Georgia, Texas, and Virginia.



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