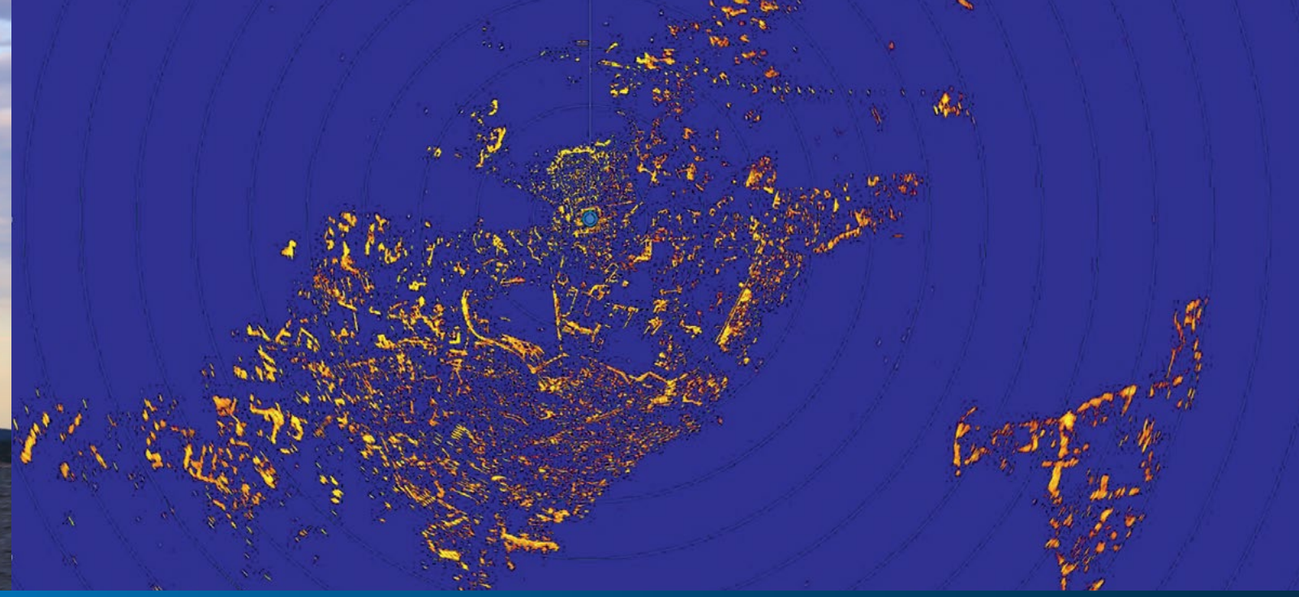
NAVAL SURVEILLANCE & HIGH PERFORMANCE NAVIGATION RADAR

SCANTER 2602



Small and Efficient X-Band Solid State Radar

The SCANTER 2602 radar is an X-band, 2D, fully coherent pulse compression radar, based on Solid State transmitter technology with digital software-defined functionality. The outdoor transceiver unit is a ruggedized design for up-mast installation to minimize waveguide loss between antenna and transceiver. All interfaces, processing and tracking are embedded in the up-mast unit.

High Performance Navigation Radar

The SCANTER 2602 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 2602 radar surpasses the requirements for professional navigation applications, where quality and durability are significant. IMO requirements can be met with a Terma 7' Compact antenna. With larger antennas, increased small target detectability is achievable.

Operational Capabilities

Automated Processing
The SCANTER 2602 radar includes all RF-signals and processing in one unit. ET2 tracking may be included as an embedded option.

Communication Interface
Communication interface to the transceiver is established via a standard IP network (LAN or WAN), which provides network radar video, plots, tracks, control, etc. Service information is also obtained via the IP network.

The SCANTER 2602 radar is well-suited as sensor in systems for medium-range surface surveillance.

Product Characteristics

Terma's SCANTER 2602 is part of a larger family of Terma radar products, which have all benefitted from the introduction of fully digital signal processing and Solid State technology.

The SCANTER 2602 meets the small boat requirements for professional naval applications, where quality and durability are significant.

The SCANTER 2602 radar is compatible with Terma's standard antenna program and interface protocols.

Configuration of the transceiver is obtained by pre-defined profiles, including all parameters needed to set up the radar. Profiles are optimized for different applications, varying weather conditions, or specific operational demands.

Small Size
The outdoor transceiver unit weighs only 26 kg and can be placed up-mast close to the antenna with no requirement for an equipment room.

Ease of Integration
The SCANTER 2602 relies on standard IP network to ensure effortless integration with existing and third-party systems using standard Terma protocols.

Support & Service
Terma offers easy replacement of spare parts.

Based on the SCANTER Radar Technology

Terma has more than 60 years of experience in developing and manufacturing radars, and more than 3,000 radar systems are installed worldwide. Terma provides radar sensors to Vessel Traffic Services (VTS), Coastal Surveillance Radar (CS), and Surface Movement Radar (SMR) segments. More than 85% of all major airports around the world and 65% of all coastal shores rely on Terma's sensor technology.

Key Benefits:

- Based on Terma's high-quality and state-of-the-art radar technology
- Weight only 26 kg
- Easy integration – standard IP network
- Low installation life-time cost

Key Figures

Weight	26 kg
h x w x d	466 mm x 422 mm x 422 mm
Type	Solid State power amplifier
Frequency	9.3-9.5GHz
Sector Transmission	Blanking/reduced tx-power
Sampling	12 bit @ 200 MHz
Dynamic range	> 120 dB (incl. processing)
Min. detectable signal	< -127 dBm
Noise figure	2.5 dB typical
Emitter	>80W peak (equivalent to 25 kW magnetron)
Min. detection range	30 m

Operating in the aerospace, defense, and security sector, Terma supports customers and partners all over the world. With more than 1,900 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 across Europe, in the Middle East, in Asia Pacific as well as a wholly-owned U.S. subsidiary, Terma Inc., with offices in Washington D.C., Georgia and Texas.

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