



Ground Surveillance Radar SCANTER 1002



TERMA[®]
NORTH AMERICA



Ground Surveillance Radar

The SCANTER 1002 Radar System is tailored for detection and tracking of fast and slowly moving objects in and around high-sensitivity areas and critical infrastructure.

Where traditional electronic perimeter protection solutions typically only monitor outer boundaries and lines, SCANTER 1002 provides complete meter-by-meter coverage both outside and inside a physical perimeter.

Providing 360° surveillance and high update rates, the radar and its embedded tracker deliver constant threat evaluation and behavior analysis of a detected target by determining course, speed, and heading to maximize the time available for assessment, decision, and possible intervention.

Operational Capabilities

Automatic Monitoring

The superb surveillance and tracking capabilities of SCANTER 1002 can be further optimized in combination with an advanced pan-tilt-zoom camera solution, which automatically slews to the radar-detected threat for immediate identification and tracking – reducing operator load to a minimum, compared to a normal CCTV-based surveillance system.

Wide Detection in All Weather Conditions

SCANTER 1002 delivers uninterrupted, all-weather detection and tracking of more than 100 simultaneous tracks ranging from humans, vehicles, and boats, covering an area up to 452 km². SCANTER 1002 is vital for reliable and precise early warning and extended ground surveillance.

Product Characteristics

High Availability

Based on proven Solid State technology, SCANTER 1002 is designed for uninterrupted ground surveillance and availability – meeting the demands for 24/7 infrastructure protection.

Ease of Integration

SCANTER 1002 is easy to integrate and relies on an open architecture and standard IP network to ensure effortless integration to third-party surveillance systems or Terma's own intelligent wide area perimeter detection solution; T.react CIP. For more information on T.react CIP, visit www.terma.com.

Key Benefits:

- Automatic wide area threat detection and tracking
- Simultaneous handling of more than 100 threats
- Scalable from small installations to border size solutions
- Proven technology built on 60+ years of experience working in harsh environments
- Easy integration to third-party surveillance systems.

SCANTER 1002 Specifications

Transmission frequency	Ku-band
Transmitted power	8 W
Instrumented range	Up to 12 km
Detection range - walking person (1 m², height 1.5 m)	5.5 km
Detection range - crawling person (0.5 m², height 0.5 m)	1.6 km
Detection range - small vehicles (5 m², height 1.5 m)	7.3 km
Detection range - large vehicles (10 m², height 1.5 m)	9.2 km
Detection range - heavy vehicles (100 m²)	12 km
Detection range - fast moving target (1 m², height 1 m)	5.3 km
Detection area	Up to 452 km²
Minimum detection range	20 m
Power consumption	130 W
Power supply	115V-240V
Waveform	Pulse compression
Scanning	360° continuous rotation
Rotation rate	12 to 60 RPM
Angular accuracy	< 2°
Range accuracy	< 5 m
Antenna elevation tilt	Adjustable
Max. number of tracked targets (TWS)	> 100
Weight	35 kg
Size (diameter, height)	D 500 mm, H 850 mm
Control, tracks, and video interface	IP network
Radar parameters	Profiled and adaptable to the operational environment
User interface software	Windows or Linux
Ambient temperature (operations)	-25 °C to +60 °C
Ambient temperature (storage)	-40 °C to +70 °C

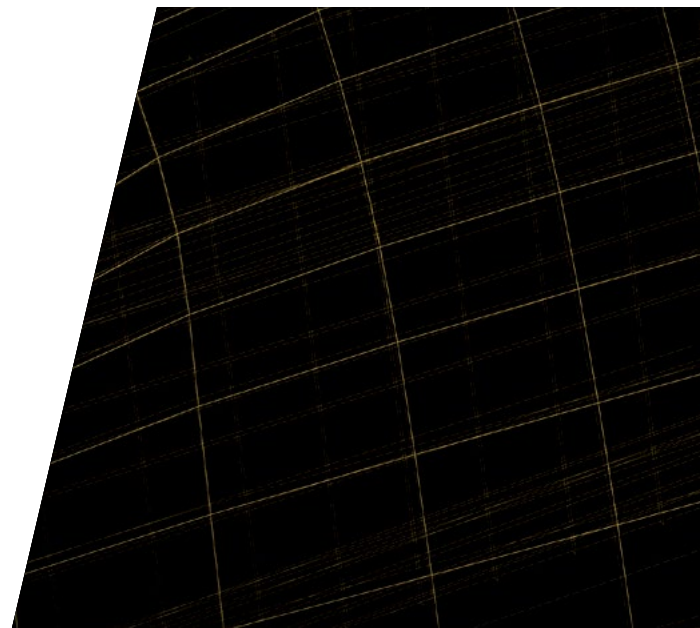
Operating in the aerospace, defense, and security sector, Terma supports customers and partners all over the world. With more than 1,500 committed employees globally, we develop and manufacture mission-critical products and solutions that meet rigorous customer requirements.

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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