SCANTER 5502
SCANTER 5602
Surface Movement Radar
LOW LIFE CYCLE COST (LCC)
The design and manufacturing processes selected by Terma ensure high reliability and LCC. The technology selected, the robust mechanical design, and efficient temperature management ensure a long lifetime of the Solid State Power Amplifier (SSPA) and other components.

ANTENNA PROGRAM
The Terma SMR systems utilize Line Array Antennas optimized for high resolution, low side-lobes, good weather penetration and high reliability. The antennas come with Fan or Inverse CoSec² vertical beam shape as appropriate for the individual airport. The combination of X-band and Circular Polarization is optimal for rain penetration in SMR applications without need for introducing rain-dependant compensations.

MULTI-SENSOR OPERATION
Radar coverage and resolution can be expanded by introducing multiple sensors allowing for separate presentation or centralized compilation of composite images. Illumination from different angles and distances may enhance target discrimination. Otherwise, obstructed areas can be included and unwanted effects from multi-path propagation eliminated.

Interference between individual sensors is eliminated by a combination of integrated timing and sub-band techniques.

Airport Surface Movement Radar

AIRPORT SURVEILLANCE
The SCANTER 5502 and SCANTER 5602 Surface Movement Radar (SMR) is designed to provide airport ground surveillance integrated as the non-cooperative primary sensor in an airport Advanced Surface Movement Guidance and Control System (A-SMGCS).

The outstanding capabilities of the SCANTER 5502 and SCANTER 5602 radars ensure reliable detection of very small targets and produce an overall clear, crisp, high-resolution radar image of the coverage area, day and night and in all weather conditions.

Frequency Diversity functionality further enhances the Probability of Detection (PD), specifically for small targets in all weather conditions.

SOLID STATE RADAR
The use of Solid State makes it possible to do free and flexible frequency selection over the full band (9.0–9.5 GHz).

Superior range target separation with pulse compression and Frequency Diversity performance with selection within 16 sub-bands.
SCANTER 5000 SERIES SMR RADARS

**Featuring**
SMR Surface Surveillance, Full Coherence, Frequency diversity
A-SMGCS integration

**Frequency**
Programmable frequencies within 9.0-9.5 GHz
Up to 16 sub-bands

**Transmitter**
50 W SSPA, meeting ICAO recommendations using WG lengths up to 15 m
200 W SSPA, meeting ICAO recommendations using WG lengths up to 45 m
0-20 kW equivalent pulse power, programmable, also in sectors
0-80 kW equivalent pulse power, programmable, also in sectors

**Receiver**
Digital sampling on IF, > 140 dB amplitude span of signals handled
Range cell size: 3 m
Range cell size: 1.5 m

**Design**
Open architecture, wall/bulkhead mounted, ruggedized housing
Temperature-controlled, environmental enclosure for up-mast mounting

**External interfaces**
Analogue, digital, and IP network radar signals
Control and monitoring via IP network/Serial communication ports
Fibre optic IP network

**Antennas**
21" High Gain Linear Array, Circularly Polarized, Fan or Inverse Cosec2, 60 RPM

**Specifications**
- Standard
- Add-on (optional)
- Specifications subject to change
Operating in the aerospace, defense, and security sector, Terma supports customers and partners all over the world. With more than 1,100 committed employees globally, we develop and manufacture mission-critical products and solutions that meet exacting 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.

Headquartered in Aarhus, Denmark, Terma has subsidiaries and operations in The Netherlands, Germany, 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, Alabama and Virginia.