OPERATIONAL CAPABILITIES

INTERNATIONAL REFERENCES
Since 2011, the SCANTER 5000 Series has been successfully deployed at major ports and in use by coast guards all over the world, including Port of Hong Kong, Port of London, Spanish Guardia Civil, Norwegian Coast Guard, and Estonian Border Guard.

IALA, IMO, ICAO, RoHS COMPLIANCE
The SCANTER 5000 Series complies with the IALA V.128 Recommendation for VTS and meets the CS demands for situational awareness (advanced level).

ANTENNA PROGRAM
The SCANTER 5000 Series utilizes our Line Array Antennas providing high resolution, low side-lobes, high gain, and low maintenance costs. Further, the SCANTER 5000 Series may utilize existing antennas. A variety of Terma antennas is available to match requirements for different needs and applications.

EASY INTEGRATION INTO OTHER SYSTEMS
The SCANTER 5000 Series is easily integrated with existing and new command systems.

Vessel Traffic Service & Coastal Surveillance Radar

SCANTER 5000 SERIES FOR VTS AND CS
The SCANTER 5000 Series radar is tailored for Vessel Traffic Services (VTS) and Coastal Surveillance (CS), and during installation and setting-to-work, the radar is tuned to the specific application.

The SCANTER 5000 VTS & CS radar provides reliable sea surface surveillance, and it will detect and track even very small non-cooperative targets in extreme environments and harsh weather. The radar may optionally be provided with Doppler-based processing for enhanced long-range, small target detection.

In VTS applications, the radar is used for monitoring of:
- All vessel movements
- Buoys and other fixed targets
- Search and Rescue operations.

In CS applications, the radar is an essential tool for reliable detection of:
- Smugglers in very fast speed boats
- Illegal immigrants traveling in small slow-going boats
- Boats and jet skis with hostile intentions e.g. piracy
- Illegal fishing
- Search and Rescue operations.
PRODUCT CHARACTERISTICS
Communication interface to the transceiver is established via a standard IP network (LAN or WAN) that provides network radar video, plots, tracks, control etc. Conventional analog or digital video are also available.

Service information is immediately available via the front panel display and/or the IP network.

The Radar Service Tool provides access to powerful radar imaging, control, recording and playback, easy wizard setup as well as Built-in Test Equipment (BITE), error handling, fault finding, and Line Replaceable Unit (LRU) replacement guidance.

An optional embedded Tracker provides for detection and tracking of fast, agile, and small targets in severe weather conditions, and at the same time reliably follow slow moving targets.

- Increased resolution - cell size 3 and 6 m providing unsurpassed weather penetration
- Improved Frequency Diversity and Time Diversity for improved small target detection
- High immunity against interference
- Adjustable Power Transmission - in sectors - to match desired range and avoid unnecessary illumination of populated areas
- Radar video distribution on LAN
- Extremely high reliability (MTBFC ≥ 50,000 hours and very low maintenance costs)
- Short Range, Low Level Air surveillance to support Search and Rescue operations (use of Doppler processing (MTI), optional)

BASED ON THE SCANTER RADAR TECHNOLOGY
Terma has more than 60 years of experience in developing and manufacturing radars, and more than 2,200 radar systems are installed worldwide. Terma provides radar sensors to Vessel Traffic Services (VTS), Coastal Surveillance Radar (CS), and Surface Movement Radar (SMR) market 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
- 50 W and 200 W Solid State Power Amplifier (SSPA)
- Integrated, agile tracking capability
- Combined Surface and Air Surveillance.

KEY FIGURES
| Weight | 77 kg |
| h x w x d | 990 mm x 497 mm x 305 mm |
| Type | Solid State power amplifier |
| Frequency | 9.0 GHz to 9.2 and 9.25 to 9.5 GHz |
| Sector Transmission | up to 16 sectors |
| Sampling | 14 bit IF @ 400 MHz |
| Dynamic range | >140 dB overall |
| Noise figure | <2.5 dB |
| Emitter | 50 W and 200 W peak - 10 W and 40W average, respectively |
| Profile settings | 16 |
| Min. detection range | 30 m |
| BITE measurements | Fully integrated |
Operating in the aerospace, defense, and security sector, Terma supports customers and partners all over the world. With more than 1,300 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, Belgium, UK, India, UAE, 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.