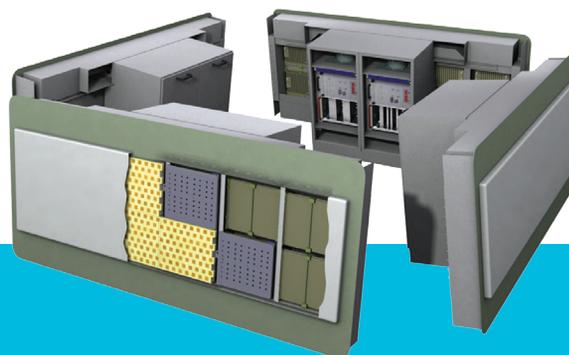


SEA MASTER 400 (SM400) is Thales' first non-rotating E/F air- and surface surveillance radar. The radar consists of four active phased array panels using Active Electronically Scanning Array (AESA) technology. The new 3D dual axis multi-beam concept enables reliable detection of a broad range of targets in complex environments. The system is almost zero-touch as all operational tasks operate simultaneously and autonomously.

MULTI FUNCTION RADAR

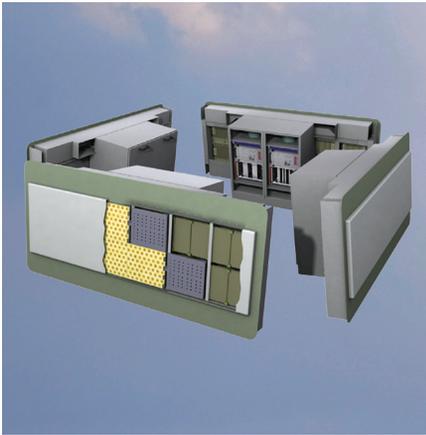
- Engagement of a wide range of air and surface targets
- High update rates in the total search volume
- Simple operation by an all-in-one-mode
- Through-life support



SEA MASTER 400

Non rotating superior performance





SEA MASTER 400

Non rotating superior performance

ENGAGEMENT OF A WIDE RANGE OF AIR AND SURFACE TARGETS

The 3D dual axis multi-beam concept uses detection beams that are simultaneously positioned in elevation as well in azimuth direction. With the achieved increase of Doppler resolution, the SM400 detects a wide range of targets. It detects UAVs, stealth fighters and hypervelocity missiles even in severe clutter conditions and without sacrificing update rate. The system offers excellent performance under all weather conditions. In littoral as well as blue water environments and against asymmetric threats.

HIGH UPDATE RATES IN THE TOTAL SEARCH VOLUME

This non-rotating AESA radar simultaneously applies different search patterns, optimized for a broad range of target types. This way target track update rates increase as target range decreases, within the entire azimuth and elevation coverage of the radar. It enables detection of high maneuvering targets, fast reaction time and guidance support.

SIMPLE OPERATION BY AN ALL-IN-ONE MODE

The SEA MASTER 400 performs all its operational tasks simultaneously and autonomously. The system is very easy to operate. You do not have to switch modes during operation and the training is minimal. Reduce manning is a major benefit.

MAIN FEATURES

- 3D Dual Axis Multi-beam with instantaneous monopulse accuracy in azimuth and elevation
- Instantaneous Doppler processing for the full range, azimuth and elevation coverage
- Active tracking for high priority targets
- High update rate in the total search volume
- Fully automatic detection of and fast track initiation on air and surface targets
- Slow Air Target Surveillance
- Low false track rate
- Dedicated ECCM techniques
- Multipath suppression using receive beams under the horizon
- Plot fusion of SM400 target data with IFF data
- Redundant design and high mission availability
- Scalable through easy extension of transmit and receive modules, and/or software upgrades

Operational Performance	
Instrumented range	250 km
Surface targets	70 km
Tracking capacity Air + Surface	1000 tracks
FC surface	3 windows (extension possible)

Installation data	
Weight above deck	5.6 ton
Weight below deck	570 kg
Power requirements	440 V / 115 V
Cooling requirements	250 l/min

Technical Characteristics	
Update rate	Variable, for air targets ≤ 2 sec
Elevation coverage	Up to 70°
Frequency band	E/F-band

