Medium-range multi-mission
surveillance radar



Sea Giraffe AMB D
All targets, one solution

The Sea Giraffe AMB D is a high-performance radar system for naval use. It is digital, multi-channel, and operates on the C-band. By combining solid-state components with state-of-the-art AESA (Active Electronically Scanned Array) technology, the AMB D provides a comprehensive solution for situational awareness and decision support. This creates critical time to act in today's complex naval theater.



Designed to excel in the most demanding operational environments, from complex littorals to blue water operations, the Sea Giraffe AMB D combines a compact design with low top-weight. The lightweight antenna allows for higher installation onboard, extending the radar horizon and improving early detection of low-altitude targets. This increased warning time enables faster decision-making and more effective action against emerging threats.

Exceptional Performance in a Compact Solution
The Sea Giraffe AMB D delivers multi-mission capability in a single, cost-effective package, providing simultaneous:

- Automatic Air and Surface Surveillance: High-accuracy tracking for both air and surface targets.
- Advanced Target Classification: Automatic classification of fixed-wing aircraft, missiles, helicopters (including hovering), and surface vessels.
- Precision Weapon Support: High-accuracy target indication to support the mid-course guidance of surface-to-air missiles and control of gun systems.
- Low Altitude Dominance: Superior detection of sea-skimming missiles and low-flying UAVs due to C-band frequency advantages.
- Navigation Support: Integrated capabilities to assist in navigation.

By operating at 60 rpm, the radar ensures a continuous update rate for track data, providing a real-time situational awareness across a full search volume up tp 80° of elevation.

Specialized Capabilities

Drone Tracker Functionality
The Sea Giraffe AMB D features a sophisticated Drone Tracker designed to detect "Low, slow, and small" (LSS) targets. By analyzing target behavior and detecting moving parts of the hull, the system effectively discriminates man-made drones from birds, ensuring a clear and accurate tactical picture.

Comprehensive ECCM and LPI
To survive in contested electronic environments, the AMB includes extensive Electronic Counter-Counter Measures (ECCM). The system incorporates Emission Control (EMCON) and Low Probability of Intercept (LPI) waveforms, allowing the operator to minimize the radar's electronic footprint and confuse hostile ESM and anti-radiation missiles.

Reliable and Cost-Effective
Engineered for maximum availability and minimum Life Cycle Cost (LCC), the Sea Giraffe AMB utilizes standardized components and a modular design. With a Mean Time to Repair (MTTR) of less than 60 minutes and minimal training requirements, the system ensures high operational readiness with low maintenance overhead.

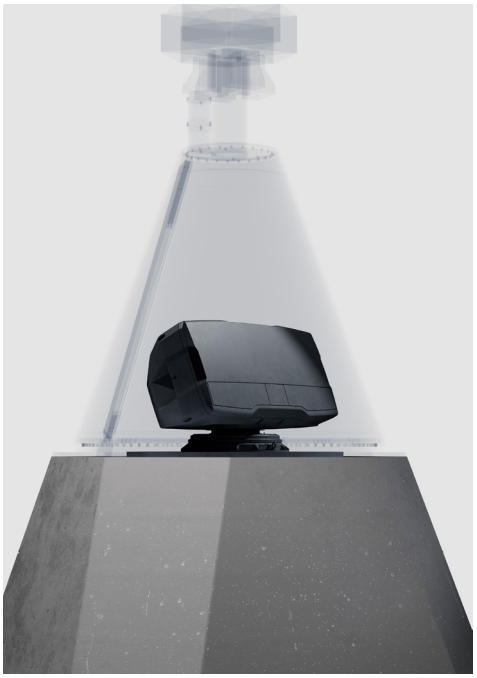
The Sea Giraffe AMB D is designed for future growth and can be equipped with the following optional modules:

- SSR/IFF: Integrated Secondary Surveillance Radar / Identification Friend or Foe.
- RAM Detection: Rocket, Artillery, and Mortar detection and alert functionality for point-of-origin and point-of-impact calculation.
- HRSS: High-Resolution Surface Surveillance with four fire control channels for gunfire splash detection and correction

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Key operational advantages

- Extended Radar Horizon: Low top side weight allows higher installation.
- High-Capacity Tracking: Simultaneous tracking of over 2,000 targets.
- LSS Detection: Advanced Drone Tracker for micro and mini UAVs.
- High Update Rate: With a 1 Hz update speed, the system enables a rapid reaction to fast-approaching threats.
- Digital Radar Architecture: Software-defined functions from the RF front-end.
- Information Assurance: Built-in protection against unauthorized access and malware.



Technical data

Radar type:	Stacked-beam 3D radar
Antenna type:	AESA (Active Electronically Scanned Array)
Frequency:	C (G) band
Elevation coverage:	> 80°
Update rate:	60 rpm
Search volume:	360º
Tracking capacity	
Air/Surface targets:	> 2,000 simultaneous air/surface tracks
Climate zones:	All climate zones
Top side Weight:	640 kg
Air filter unit Weight:	130 kg
Below deck Weight:	575 kg
Power Consumption:	9 kW
Power Supply:	STANAG 1008 Edition 9
Stabilization:	Electronic

Specifications subject to change without notice.