MULTI-ROLE 3D NAVAL SURVEILLANCE RADAR

The SEA GIRAFFE AMB is designed to maximise the response times for the naval commander. You will benefit from Saab’s long experience throughout the world. With Saab as your partner you have access to future-proof solutions, giving your capabilities the edge.

SEA GIRAFFE AMB HAS:

• Instantaneous and simultaneous 0-70º coverage on all antenna revolutions
• Supreme detection range for high-speed targets and small RCS targets on the surface
• High degree of automation to support fast and accurate decision making
• DDS (Data Distribution Service) interface for easier CMS integration

This multi-role 3D radar provides a full range of functions for simultaneous:

• Air surveillance and tracking, including Tracking-On-Jam
• Surface surveillance and tracking
• Target classification of high-speed and hovering helicopters
• Navigation and control capabilities
• Target indication to weapon systems for precision air-to-air and air-to-surface engagement

Saab’s support, including high resolution splash spotting

The radar simultaneously detects small fast-moving targets at all altitudes and in severe clutter. The surface channel gives a high probability of detecting very small targets in close proximity to the surface, for example rib boats and periscopes. The radar has been proven in all kinds of environments including regions with extensive ducting conditions.

The concurrently processing target returns from multiple digitally shaped receive beams in elevation results in high altitude coverage and monopulse accuracy in elevation. The radar covers the full search volume every second.

In order to relieve operator interaction, SEA GIRAFFE AMB provides fully automatic operation on both air and surface targets, supported by a variety of different clutter maps and doppler processing to eliminate both land- and weather-driven clutter.

SEA GIRAFFE AMB provides the most comprehensive Electronic Counter-Countermeasure (ECCM) capabilities available today including ultra low antenna side-lobes.

A WORLD-CLASS LINE-UP

All Saab radars combine battle-proven designs from the renowned ERIEYE (AEW), ARTHUR and GIRAFFE AMB product families. Saab offers a full range of high performing radar systems for a multitude of applications and mission types.

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Focus

- Maritime Security Operations
- Self defence
- Multi Role – Medium Range
- Self defence
- Multi Role – Medium/Long range
- Self defence

Mission

- Surface
- Air
- Surface
- Air
- Surface

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SEA GIRAFFE AMB COMPRIS ES THE FOLLOWING MAIN HARDWARE UNITS:

- Antenna Unit (AU)
- Transmitter Unit (TRU)
- Signal and Data Unit (SDU)
- Power Distribution System (PDS)

EXTENDED CAPABILITIES

The following extended capabilities for the SEA GIRAFFE AMB baseline product configuration are available:

- Stealth Radome
- 360˚ mortar/rocket detection and alert (C-RAM)
- Identification Friend or Foe (IFF) interrogator antenna
- IFF interrogator
- Improved detection range and redundancy with an additional Transmitter Unit

The Stealth Radome is built with Frequency Selective Surfaces (FSS) to minimise the Radar Cross Section (RCS) and infrared signature of the above-deck parts of the SEA GIRAFFE AMB. The radome is capable of carrying equipment on the top, for example as ESM, ELINT and/or a COMMIT. The Counter Rocket, Artillery and Mortar alert function detects, tracks and classifies very small ballistic objects in severe clutter. The point of impact, the ballistic trajectory as well as the impact position are calculated. A warning signal of impact position is given well in advance, allowing the ship to perform an evasion manoeuvre in order to avoid being hit.

ILS – INTEGRATED LOGISTICS SUPPORT

ILS is an important part of the system delivery and will form the basis for future maintenance. Saab ILS experts have solid experience in tailoring ILS deliveries together with customers worldwide. The superior, unsurpassed system availability (with high MTBCF and advanced BIT) provided by the SEA GIRAFFE AMB will greatly reduce the required investment in onboard and depot spares. Minimal operator training and maintenance requirements will significantly contribute to minimizing the total cost of ownership.

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