



**SAAB**



**SEA GIRAFFE AMB**

# Medium range multi-mission surveillance radar

Sea Giraffe AMB multi-role 3D radar is powerful, but still very compact and lightweight. It is the result of Saab's expertise and long experience in the field.

Saab has supplied more than 500 radars to over 30 countries across the world, and continues to push performance boundaries.



**SAAB**



With solutions that deliver a higher level of awareness, you create time to act and arm your forces with the power to manage any threats in any waters.

**Sea Giraffe AMB** is effective and reliable:

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

Sea Giraffe AMB is designed to be an efficient medium-range radar which offers outstanding performance in both littoral regions and blue waters. Sea Giraffe AMB provides a full range of functions for simultaneous:

- Air surveillance and tracking, including tracking-on-jam
- Surface surveillance and tracking
- 360° mortar/rocket detection and alert (RAM)
- Target classification of both moving and hovering helicopters
- Navigation/close combat
- Target indication to weapon systems for precision anti-air and anti-surface engagement
- Gunfire 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.

Multiple digitally shaped narrow receive beams are used, which results in high altitude coverage and monopulse accuracy throughout the entire elevation. The radar covers the full search volume every second.

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

Sea Giraffe AMB provides superior overall performance compared to other naval 3D radars in the same class.

It provides the most comprehensive Electronic Counter-Countermeasure (ECCM) capabilities currently available, including ultra-low antenna side-lobes.

### Sea Giraffe AMB key capabilities

- Simultaneous air and surface surveillance
- Multi-role capabilities
- C-UAS through Drone Tracker Functionality
- Sense and warn
- Excellent small target detection
- Fast reaction time for all targets
- Extensive Electronic Counter-Counter Measures (ECCM)
- Small footprint – physically and weight

### Technical data Sea Giraffe AMB

|                      |                       |
|----------------------|-----------------------|
| Radar type:          | Stacked beam 3D radar |
| Antenna type:        | Phased Array          |
| Frequency            | C (G) band            |
| Elevation coverage:  | > 70°                 |
| Update rate:         | 60, 30 RPM            |
| Search volume:       | 360°                  |
| Instrumented range:  | 180 km                |
| Tracking capacity    |                       |
| Air/Surface targets: | 200/500 tracks        |
| Climate zones:       | All climate zones     |
| Sensor weight:       | 650 kg                |
| Power Consumption:   | 12 kW peak            |
| Stabilization:       | Electronic            |
| Power supply:        | STANAG 1008           |