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HIGHLY CAPABLE WITH SMALL FOOTPRINT

GIRAFFE 1X is a small and lightweight yet high-performing 3D radar that is readily integrated in almost any type of mobile platform, fixed structure or C2 system. The system is designed to deliver key capabilities as part of short-range surveillance and Ground Based Air Defence (GBAD).

ACCESSING THE BIGGER PICTURE

The compact concept makes GIRAFFE 1X the perfect choice when flexible and agile GBAD is desired. It provides swift understanding of the air situation, enabling immediate and effective response to changing threats, new tactics and shifting operational conditions. The system monitors the air volume 360 degrees for air targets and simultaneously locates and warns against incoming rocket, artillery and mortar rounds.

GIRAFFE 1X AGILE FORCE PROTECTION

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.

A WORLD-CLASS LINE-UP

<table>
<thead>
<tr>
<th>GIRAFFE 1X</th>
<th>ARTHUR</th>
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<th>GIRAFFE 4A</th>
<th>GIRAFFE 8A</th>
<th>RADAR UPGRADES</th>
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<tbody>
<tr>
<td>Air Surveillance</td>
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<tr>
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</table>
THE ADVANTAGE OF BEING AWARE

GIRAFFE 1X is a mobile, deployable or fixed asset for short-range surveillance and Ground-Based Air Defence (GBAD) that provides forces with early warning and the ability to detect and track hundreds of targets simultaneously. Even in high-clutter environments, the system can be delivered with surface surveillance as well as, sensors to warn add-ons and can be operated remotely or locally.

FIXED, MOBILE OR DEPLOYABLE

GIRAFFE 1X is very lightweight with an exceptionally small integration footprint. In fact, the complete radar can be transported on a pickup truck-sized vehicle by helicopter or towed on a trailer. It can be permanently installed on a building or a mast, or integrated into a suitable vehicle.

SUPERIOR DETECTION

GIRAFFE 1X covers the entire search volume every second and will detect any air threat, including low, slow and small targets. The system provides exceptional air picture awareness with all-weather performance and accurate 3D data for all targets in the search volume.

The system offers Sense & Warn functionality with 360° detection and tracking of RAM threats. This means it provides your forces with automatic warning of incoming threats, giving them the time needed to react.

MULTI-ROLE FOR MULTIPURPOSE

GIRAFFE 1X provides simultaneous air surveillance, GBAD target acquisition and RAM sense and warn capabilities without performance degradation. It can detect fixed and rotary wing targets, fast missiles and RAM targets as well as small UAVs even in severe clutter. It also offers flexible integration of weapon systems and tactical data links, and can be configured fully, self-contained with C3 capabilities.

GIRAFFE 1X allows for standard or customised data link integration for sharing and distribution of target data.

GIRAFFE 1X KEY ADVANTAGES:

- A small lightweight yet high performing 3D radar
- Covers the entire search volume every second
- Enables unique flexibility and redundancy in GBAD solutions

ILS – INTEGRATED LOGISTICS SUPPORT

Saab ILS experts have solid experience in tailoring ILS deliveries together with customers worldwide.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radar type</td>
<td>Stacked beam 3D radar</td>
</tr>
<tr>
<td>Antenna type</td>
<td>AESA, digital beam forming</td>
</tr>
<tr>
<td>Frequency</td>
<td>X-band</td>
</tr>
<tr>
<td>Elevation coverage</td>
<td>&gt; 70 degrees</td>
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<tr>
<td>Rotation rate</td>
<td>60 rpm</td>
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<tr>
<td>Search volume</td>
<td>360° or in a sector</td>
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<tr>
<td>Instrumented range</td>
<td>75 km</td>
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<tr>
<td>Capacity: Air</td>
<td>&gt; 100 tracks</td>
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<tr>
<td>Surface</td>
<td>&gt; 200 tracks</td>
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<tr>
<td>Towed weight</td>
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<td>Power consumption</td>
<td>2.3 kW</td>
</tr>
<tr>
<td>Climate zones</td>
<td>Sub-polar zones, in-band, coastal, desert and arctic</td>
</tr>
</tbody>
</table>

Specification subject to change without notice.

LOOK INTO THE FUTURE

Saab has been active in defence and security for more than 75 years. Solutions for air, sea and land operations, civil security and commercial aerospace make up a complete business portfolio. Working with Saab means you will benefit from the ultimate experience of efficiency, effectiveness and excellence in engineering.

Radar technology is an area very important and other outstanding capabilities to demanding customers all over the world. You may feel safe to say that our mission in this field is to help your forces to virtually look into the future. To ensure you aren’t seen and to maintain superior situational awareness.

A line of ground-breaking innovations from a single record that proves our ability to stretch the sensory edge. Taking a leap, enough to cut through the barrier of the impossible, strengthening your ability to protect your troops and keep people safe.

www.saabgroup.com
GIRAFFE 1X is a mobile, deployable or fixed asset for short-range surveillance and Ground Based Air Defence (GBAD) that provides forces with early warning and the ability to detect and track hundreds of targets – simultaneously. Even in high-clutter environments. The system can be delivered with surface surveillance as well as air surveillance and can be operated remotely or locally.

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**GIRAFFE 1X Key Advantages:**
- A small lightweight yet high performing 3D radar
- Covers the entire search volume every second
- Enables unique flexibility and redundancy in GBAD solutions

**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.

**Technical Data**
- Radar type: Stacked beam 3D radar
- Antenna type: AESA, digital beam forming
- Frequency: X, X-band
- Elevation coverage: > 70 degrees
- Rotation rate: 60 rpm
- Search volume: 360° in a sector
- Instrumented range: 75 km
- Capacity:
  - Air: > 100 tracks
  - Surface: > 200 tracks
  - Radar Weight: < 300 kg
  - Power consumption: 2.3 kW
- Climate zones:
  - All climate zones; in-land, coastal, desert and arctic

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- 3D radar for air surveillance and GBAD, with full all-weather operation
- Separate surveillance and GBAD in a Combined Solution
- ILS – INTEGRATED LOGISTICS SUPPORT

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**THE ADVANTAGE OF BEING AWARE**

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