



SAAB



GIRAFFE AMB D

Awareness above all

In situations where every second counts, time is your most valuable asset. With time on your side, you can be prepared, in control, and gain the initiative. This is where Saab comes in. With our capable, leading-edge sensor systems you can create time to act and protect your assets with solutions built on actual real-time control.

Giraffe AMB D has been in operational service for 25 years, continuously improved, and built on a heritage of over 50 years. Proven in battle across multiple conflict zones, Giraffe AMB D leverages the advanced radar technologies to deliver a significant increase in performance, pushing the instrumented range to 250 km.

When agility and rapid reactions are crucial, the Giraffe family of 3D radars provides high mobility, short deployment times, fast track initiation, and high target update rates – all enabling command and control in real time. The new version of Giraffe AMB D is a versatile asset combining agility and range, enabling coverage of a number of tasks in the battlefield. The hardware/software decoupled system architecture is designed to enable adaptation to the ever-changing threat of the battlefield.

The Giraffe AMB D provides high-capacity detection and tracking of multiple target types, including fighters, missiles, UAVs & RAM, managing up to 2,000 targets simultaneously. It is resilient to electronic

warfare with state-of-the-art ECCM capabilities.

The Giraffe AMB D is currently available in a cabin solution, which enables installations on different vehicles with a 20-foot ISO interface; however, the radars low weight and small footprint enable installations on smaller vehicles i.e. 10-foot ISO interfaces. The Giraffe AMB D has been successfully integrated with multiple VSHORAD, SHORAD, and MRAD systems across diverse C3 architectures for various operators

Key features

Type: Multifunctional, compact AESA

Instrumented range: 250 km

Hardware/software decoupled architecture

Multi-target classification

Easily integrated on different vehicles and into C3 systems

Advanced ECCM capability



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Drone detection and classification

The Giraffe AMBD drone tracker function is capable of coping with the challenges of the UAV threat. It detects and tracks even small/mini/micro UAVs, with a false alarm rate reduced to an absolute minimum. It can be used for a wide range of applications: monitoring airport flight zones, protection of sea operations, camp protection, and UAV surveillance of larger areas.

C-RAM sense

The RAM Sense function works in the full 360-degree volume while maintaining normal air surveillance with a detection range supporting integration in VSHORAD to MRAD GBAD systems. A large number of ballistic tracks, weapon locations and impact points, can be handled simultaneously



Maintainability

The Giraffe AMBD is designed for high availability and low footprint both mechanically and logistically. By reducing the number of unique components and incorporating redundancies, a high availability is achieved to support long-duration missions. The multiple power units, transmitter/receiver channels, as well as the redundant antenna monitoring arrangement allow for a high degree of graceful degradation, which will increase the system availability.

Key figures

Frequency:	C (G) band	Data interface:	Asterix, L16/JREAP-C or customized protocol
Radar type:	Stacked beam 3D radar	Elevation coverage:	>80°
Antenna type :	Compact AESA, digital beam forming	Air target capacity:	2000 tracks
Stabilization :	Electronic	Power Consumption:	<30kW
Search volume /		Cooling:	Air cooled
Update rate:	360° / 1 second	Cabin data:	System weight: <10 tons
		Climate zones:	All climate zones