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Belgian Advanced Technology Systems

Tactical Air Defense Radar

AD06

The Air Defence 06 - BATS fourth generation of 3D Tactical Air Defense Radars reflects BATS experience in tactical military radars.

This 3D radar detects a wide variety of flying platforms, including low level high-speed fighter aircraft, hovering helicopters, low velocity ultra-light aircraft and UAVs.

The radar provides accurate range, azimuth and elevation angle measurements for each target, differentiating between aircraft and helicopters and classifying the helicopter type according to its blades returns.

The AD06 can be operated as a local Air Defense C³ system providing warning and target designation to Surface-to-Air weapon systems, including MANPADS.

In addition, it can be also deployed as gap filler for supporting C3I centers for Air Traffic Control.

Features

- Automatic detection of airborne targets
- Track While Scan up to 60 targets
- Operates 24 hours a day under all weather conditions
- Target differentiation and classification
- IFF (options)
- Several radars can be fused into one integrated air surveillance picture
- Low weight and low power consumption (750 W typ.)
- Extensive BIT
- High MTBF (1500 Hrs) and low MTTR (20 Minutes)
- Easy and fast deployment
- Standard power source

Applications

- Search radar to support surface-to-air weapon system
- Gap filler to main air defense radar system
- Local Air Defense C³ system
- Protection of sensitive sites

Specifications

Detection Ranges

•	Instrumented	60km
•	Fighter aircraft	40 - 60km
•	Hovering helicopter	25km
•	Elevation accuracy	2°
•	Azimuth accuracy	0,5°
•	Range accuracy	30m
•	Target Detection Velocity	From 30km/h

Weight	Less than 100kg (less than 150kg with transportation cases)
Frequency band	L-Band
Transmitter peak power	400W (solid state technology)
Power requirements	20 – 32 Volts DC
Operational temperature	-30° c to +50° c
IFF Modes	1, 2, 3/A, C (mode 4 optional)
Processing	FFT, CFAR, TWS
EMC/EMI	MIL-STD-461C
Environmental conditions	MIL-STD-810F

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