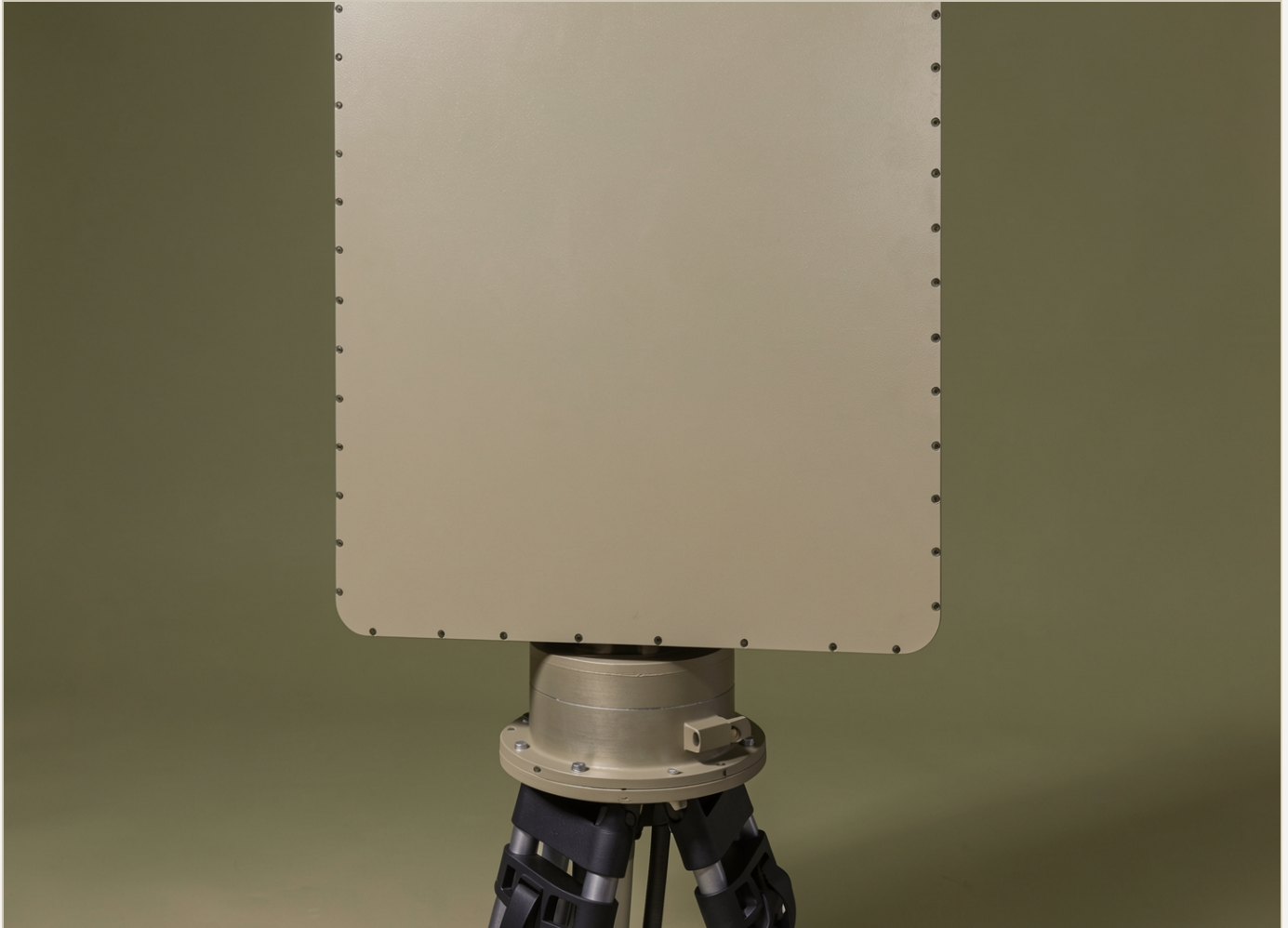




MISSION CATALOG · CB-000053

AGT-3D-RD5000X LOW-ALTITUDE AIRPORT BIRD DETERRENCE SURVEILLANCE RADAR

The AGT-3D-RD5000X is a three-coordinate surveillance radar for low-altitude and ground surveillance, featuring DBF technology, adaptive...

Model AGT-3D-RD5000X

KEY BENEFITS

- Three-coordinate system with 360° azimuth coverage and >30° elevation coverage
- Provides coordinate and speed information for moving targets in the radar field of view
- Automatically indicates target trajectory
- Clutter filtering function enables very low false alarm rate under ground, water, and meteorological clutter conditions

DESCRIPTION

The AGT-3D-RD5000X three-coordinate surveillance radar is engineered for low-altitude and ground surveillance applications such as airport bird deterrence and perimeter security. It employs Digital Beamforming (DBF) technology to achieve low equivalent omnidirectional radiation power and a high search data rate, while adaptive clutter suppression and Track-Before-Detect (TBD) technology deliver an extremely low false alarm rate. The system provides full 360° azimuth coverage with elevation coverage from -5° to 30° and can detect targets at heights up to 800 m and ranges up to 5 km. It automatically tracks more than 150 simultaneous targets, outputting accurate position, trajectory, and velocity data for each target in the radar field of view.

OVERVIEW

- Mainly used for low-altitude and ground surveillance
- Adopts DBF technology with low equivalent omnidirectional radiation power and high search data rate
- Adopts adaptive clutter suppression technology and TBD technology
- Extremely low false alarm rate
- Automatically tracks over 150 targets
- Outputs high-precision position information

APPLICATIONS

- Airport bird deterrence and wildlife monitoring
- Low-altitude and ground surveillance
- Perimeter and border security

TECHNICAL SPECIFICATION

DETECTION	
Detection range	< 5km
Detection speed range	1 ~ 100m/s
ENVIRONMENT	
Operating temperature	-40 ~ +55°C
POWER	
Power supply	DC48V or AC220V
Power consumption	≤200W

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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COUNTRY	United States
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BRAND	Circuitbull®
PARENT ORGANIZATION	Volls Global · volls.us

MATRIX CODES · SCAN TO OPEN

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