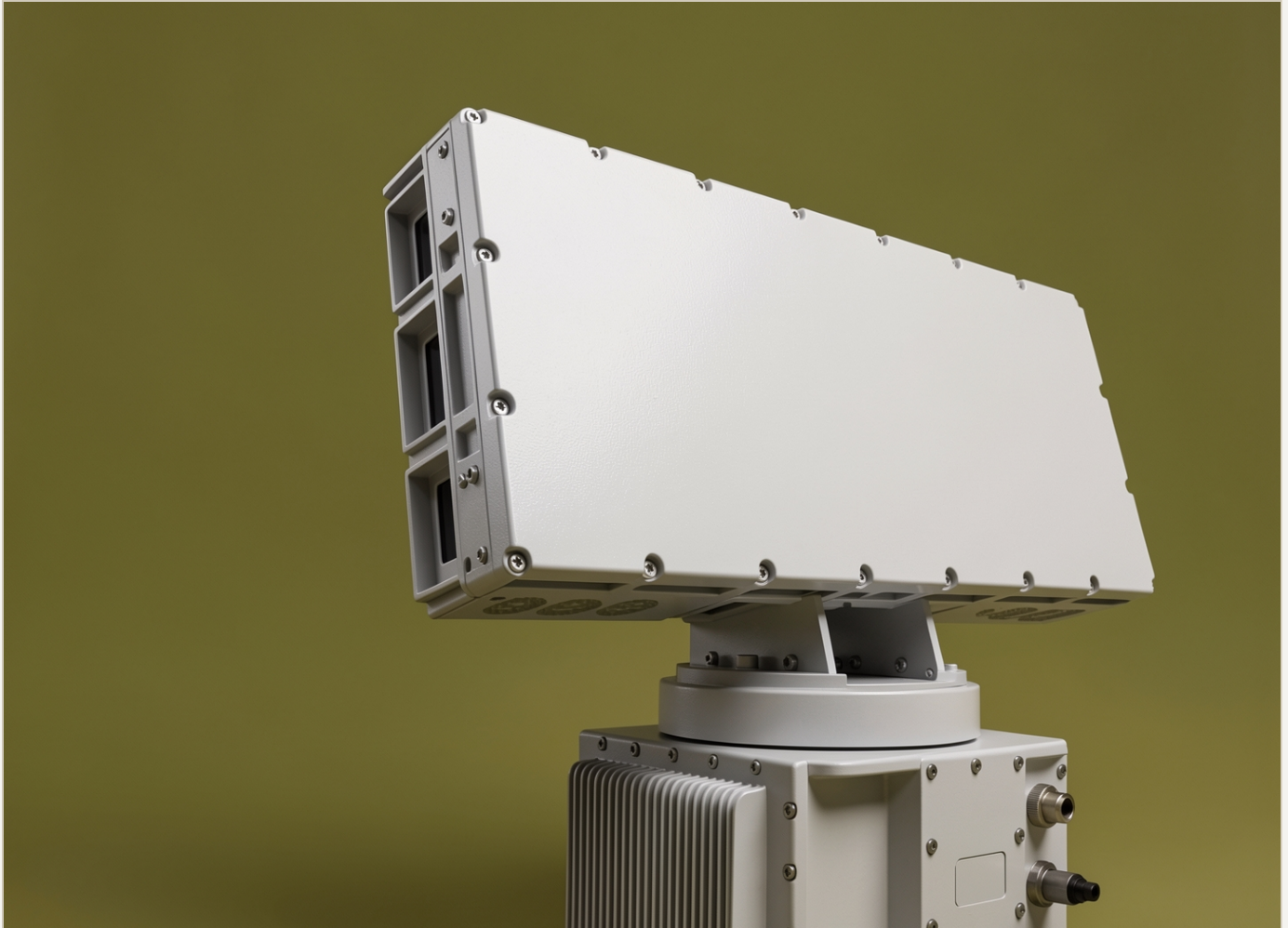




MISSION CATALOG · CB-000045

AGT-3D-RD6000KU AIRPORT BIRD DETERRENCE LOW ALTITUDE TARGET SURVEILLANCE RADAR

The AGT-3D-RD6000KU is a Ku-band low-altitude surveillance radar using DBF-based simultaneous multi-beam technology to detect and track U...

Model AGT-3D-RD6000KU

KEY BENEFITS

- Detects diverse low-altitude targets including UAVs, birds, balloons, and airships
- Provides real-time multi-dimensional target information (position, speed, RCS, target type)
- 360° azimuth coverage with $\geq 60^\circ$ pitch coverage
- Supports simultaneous tracking of 500+ target batches
- Ruggedized design with IP66 rating and wide operating temperature range
- Reserved input interface protocol for remote control and radar networking

DESCRIPTION

The AGT-3D-RD6000KU radar employs an advanced one-dimensional simultaneous multi-beam system based on Digital Beam Forming (DBF) technology. It is capable of detecting a wide variety of low-altitude aircraft and objects including multi-rotor UAVs, fixed-wing UAVs, cruisers, swarms, hot air balloons, airships, power parachutes, and bionic birds. The system obtains real-time target position data such as distance, azimuth, pitch, longitude, latitude, and height, along with motion posture, echo intensity, RCS, and target type classification. An input interface protocol is reserved to support remote control or radar network integration.

OVERVIEW

- Ku-band low-altitude surveillance radar with DBF-based one-dimensional simultaneous multi-beam architecture
- Pitch multiple beams at the same time with azimuth mechanical scanning
- Real-time detection and tracking of low-altitude aircraft and objects
- Outputs target position, motion posture, echo intensity, RCS, and target type
- Supports remote control and radar network construction via reserved protocol interface

APPLICATIONS

- Airport bird deterrence and wildlife hazard management
- Low-altitude UAV detection and counter-UAS systems
- Perimeter and critical infrastructure airspace surveillance
- Airship, hot air balloon, and ultralight aircraft monitoring
- Radar network and integrated air defense applications

TECHNICAL SPECIFICATION

TRACKING	
Beam scanning method	Pitch multiple beams simultaneously, azimuth mechanical scanning
DETECTION	
Detection distance	<5km
Speed measurement range (radial)	1m/s ~ 150m/s
Storage temperature range	-45°C ~ 65°C
Working temperature range	-40°C ~ 65°C
POWER	
Weight	≤50kg
ENVIRONMENT	
Maximum working humidity	95%@40°C
INTERFACE	
Quoted & supported by Circuitbull® (Volls Global Inc)	
Communication transmission protocol	UDP

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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BRAND	Circuitbull®
PARENT ORGANIZATION	Volls Global · volls.us

MATRIX CODES · SCAN TO OPEN

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