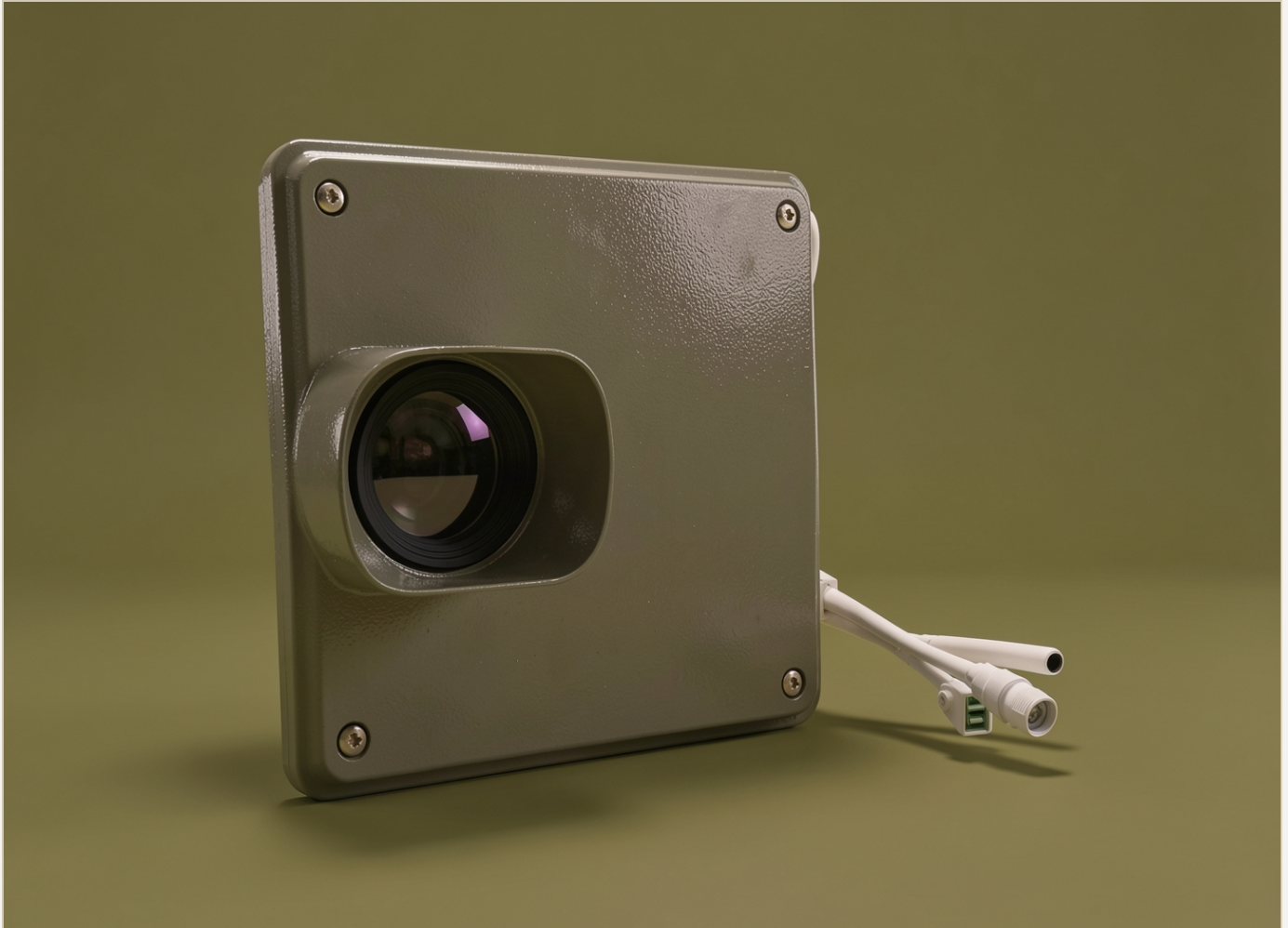




MISSION CATALOG · CB-000046

AGT-2D-RD800ES SECURITY AND SURVEILLANCE RADAR FOR MOVING TARGET DETECTION

The AGT-2D-RD800ES is a 24 GHz FMCW phased-array security radar that detects and tracks moving targets such as people, vehicles, and ship...

Model AGT-2D-RD800ES

KEY BENEFITS

- FMCW phased-array radar architecture enables wide-area electronic scanning with $\pm 45^\circ$ azimuth coverage
- Miniaturized, lightweight, low-power design for easy installation and maintenance-free operation
- Configurable defense zones block false alarms outside the core surveillance area
- Supports multi-radar networking for long-distance, large-scale detection

DESCRIPTION

The AGT-2D-RD800ES is a cost-effective 24 GHz FMCW phased-array radar that detects and locates moving targets by transmitting electromagnetic waves and analyzing Doppler-shifted echoes. It reports real-time distance, azimuth, and speed information for multiple simultaneous targets within its field of view, and is designed to cooperate with cameras and other photoelectric equipment for accurate tracking, positioning, and identification. Built for miniaturization and low power consumption, the unit features a durable cast-aluminum IP67 enclosure, DC 12 V operation, and easy installation with no routine maintenance. It supports configurable defense zones to suppress false alarms outside the protected core area and can be networked with multiple radars to extend coverage over large perimeters and long distances.

OVERVIEW

- Detects moving targets such as people, vehicles, and ships by emitting 24 GHz electromagnetic waves and receiving Doppler-shifted echoes
- Reports real-time distance, azimuth, and speed for multiple simultaneous targets
- Cooperates with cameras and photoelectric equipment for target tracking, positioning, and identification

APPLICATIONS

- Intelligent shipping, fishery protection, bridge collision prevention, ship flow monitoring, fisheries management, and ship detection in water areas
- Infrastructure security for substations, detention centers, and oil pipelines
- Airport perimeter security, railway line security, and highway traffic control

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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