



MISSION CATALOG · CB-000050

AGT-2D-RD600STS SECURITY RADAR

The AGT-2D-RD600STS is a 24 GHz FMCW phased-array security radar that detects and tracks moving targets such as people, vehicles, and shi...

Model AGT-2D-RD600STS

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 monitoring area
- Supports multi-radar networking for extended-range and large-scale detection

DESCRIPTION

The AGT-2D-RD600STS security radar is a cost-effective FMCW phased-array sensor that detects and locates moving targets by emitting 24 GHz electromagnetic waves and analyzing Doppler-effect echoes. It reports real-time distance, azimuth, and speed information for multiple simultaneous targets within its field of view, including people, vehicles, and ships. Designed for miniaturization and low power consumption, the radar features a durable cast-aluminum IP67 enclosure, DC 12 V operation, and a compact 190 × 190 × 40 mm form factor weighing only 250 g. Its wide electronic scanning capability and support for multi-radar networking make it suitable for both small-site and large-area surveillance deployments. The system supports configurable defense zones to suppress false alarms outside the core monitoring area and can cooperate with cameras and other photoelectric equipment for target tracking, positioning, identity verification, and event recording.

OVERVIEW

- Detects and locates moving targets by emitting 24 GHz electromagnetic waves and receiving Doppler-effect echoes
- Reports distance, azimuth, and speed for multiple simultaneous targets in the field of view
- Cooperates with cameras and photoelectric equipment for tracking, positioning, identity identification, and event recording

APPLICATIONS

- Intelligent shipping, fishery protection, bridge collision prevention, ship flow monitoring, fisheries management, and ship detection in water areas
- Security maintenance of infrastructure such as 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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