



MISSION CATALOG · CB-000048

AGT-2D-RD1000STS SECURITY AND SURVEILLANCE RADAR

The AGT-2D-RD1000STS is a 24 GHz FMCW phased-array security radar that detects, tracks, and locates moving targets, reporting distance, a...

Model AGT-2D-RD1000STS

KEY BENEFITS

- Frequency modulated continuous wave (FMCW) phased-array radar system achieves wide-range electronic scanning with an azimuth of $\pm 45^\circ$.
- Miniaturized, lightweight, low-power design enables easy installation and maintenance-free operation.
- Supports configurable defense zones to effectively block false alarms outside the core area.
- Supports multi-radar networking for long-distance, large-scale detection.

DESCRIPTION

The AGT-2D-RD1000STS security radar is a cost-effective detection and positioning system that emits 24 GHz electromagnetic waves and uses Doppler-effect echoes to locate moving targets within its field of view. It reports real-time distance, azimuth, and speed information for multiple targets simultaneously, enabling cooperation with cameras and other photoelectric equipment for tracking, positioning, identification, and event recording. Designed for miniaturization and low power consumption, the radar features a durable cast-aluminum IP66 enclosure and supports networked deployment for long-distance, large-area coverage.

OVERVIEW

- Detects and locates targets by emitting 24 GHz electromagnetic waves and detecting Doppler-effect echoes reflected by objects.
- Reports distance, azimuth, and speed of moving targets such as people, vehicles, and ships.
- Supports simultaneous reporting of multiple targets.
- Cooperates with cameras and photoelectric equipment for tracking, positioning, identification, and event recording.

APPLICATIONS

- Intelligent shipping and ship-flow monitoring
- Fishery protection and fisheries management
- Bridge collision prevention
- Ship detection in water areas
- Security maintenance for substations, detention centers, and oil pipelines
- Airport perimeter security
- Railway line security
- Highway traffic control

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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