



MISSION CATALOG · CB-000044

AGT-RJH2000 AIRPORT BIRD DETERRENCE LIGHTWEIGHT LASER JAMMING INTERCEPTION SYSTEM

The AGT-RJH2000 is a lightweight, modular laser jamming interception system designed to detect, track, and physically neutralize small dr...

Model AGT-RJH2000

KEY BENEFITS

- Miniaturized modular design for rapid deployment, relocation, and setup
- Dual visible-light and thermal imaging for day/night target detection and tracking
- High-precision tracking down to $\leq 25 \mu\text{rad}$ and PTZ accuracy $\leq 0.5 \text{ mrad}$
- Integrated 1535 nm laser rangefinder with $< 5 \text{ km}$ range and $\pm 1 \text{ m}$ accuracy
- 808 nm laser illuminator with automatic/manual control and $\geq 1500 \text{ m}$ illumination distance
- Rugged IP65 enclosure and wide $-20 \text{ }^{\circ}\text{C}$ to $+50 \text{ }^{\circ}\text{C}$ operating temperature range
- Low power consumption $\leq 400 \text{ W}$ and lightweight $\leq 17 \text{ kg}$ for portable operation

DESCRIPTION

The AGT-RJH2000 lightweight laser jamming interception system is built for counter-small-UAS operations in protected airspace. It physically intercepts threat targets and delivers optoelectronic jamming to stop reconnaissance and "suicide" attacks. The miniaturized, modular design allows rapid transport, deployment, and setup. The system integrates a high-resolution visible-light camera, an uncooled VOx thermal imager, a 1535 nm laser rangefinder, and an 808 nm laser illuminator. Combined with a precision pan-tilt unit offering wide horizontal and vertical travel, it provides accurate tracking and engagement out to 300 m for DJI Phantom 4-class targets. Ruggedized to IP65 and operating from -20 °C to +50 °C, the unit consumes no more than 400 W and weighs under 17 kg, making it suitable for mobile and fixed-site airport and perimeter defense.

OVERVIEW

- Counter-small-UAS laser jamming and physical interception system
- Detects, tracks, and engages drone targets in protected airspace
- Prevents reconnaissance and kamikaze-style attacks via optoelectronic jamming
- Suitable for mobile deployment and quick setup at airports and critical sites

APPLICATIONS

- Airport and airfield perimeter security
- Critical infrastructure protection
- Counter-UAS / anti-drone defense
- Prevention of reconnaissance and suicide drone attacks
- Airport bird deterrence

TECHNICAL SPECIFICATION

VISIBLE LIGHT	
Pixel size	5.5 μm × 5.5 μm
Focal length	500mm
Field of view	0.3° × 0.3°
THERMAL IMAGING	
Detector type	uncooled Vox
Pixel size	12μm
Resolution	640 × 512
Spectral range	8~14μm
NETD	≤40mK@F1.0,300K
Focal length	60mm
Field of view	7.3° × 5.5°
Spatial resolution	0.2mrad
Digital zoom	1×/2×/3×/4×
False color	White hot/Black hot/Rainbow/Iron red/Lava/Sky/Purple orange/Gradual red/Gradual green/Gradual blue
Image processing	Non-uniformity correction/digital filtering noise reduction/digital detail enhancement
LASER	
LRF wavelength	1535nm
LRF light source type	Diode pump
LRF distance measurement capability	<5km
LRF distance measurement accuracy	±1m

TECHNICAL SPECIFICATION

LASER	
LRF operating frequency	1Hz/5Hz/10Hz
LRF accuracy rate	98%
Illuminator wavelength	808 ± 5nm
Illuminator power	11 ± 1W
Illumination angle	1°~65°
Control	Automatic/Manual
Illumination distance	≥1500m
PTZ	
Horizontal speed	0.01°~50°/s
Horizontal angle	-170°~+170°
Vertical angle	-20°~+80°
Tracking accuracy	≤0.5mrad
INTERFACE	
RS422	1×
CAN	1×
RJ45	1×
POWER	
Input voltage	DC20V~DC40V
CONSUMPTION	
Power consumption	≤400W
HOUSING	
IP rating	IP65
ENVIRONMENT	
Operating temperature	-20°C~+50°C

TECHNICAL SPECIFICATION

ENVIRONMENT	
Storage temperature	-25°C~+55°C
DIMENSIONS	
Device dimensions	<500mm × 400mm × 550mm
Laser dimensions	<500mm × 360mm × 280mm
WEIGHT	
Device weight	≤17Kg
Laser weight (including battery)	≤17Kg

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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