

An Integrated Design A Miniaturized High-power Microwave Anti-drone Security System That Integrates Early Warning Detection Tracking And Identification Jamming And Strike Functions

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DT-11
- Minimum Order Quantity: 1
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: TT,LC
- Supply Ability: 1000units per month



Product Specification

- Target Detection Range: $\geq 5\text{km}$ ($\text{RCS} \geq 0.01 \text{ M}^2$)
- Target Tracking Distance: $\geq 2\text{km}$ (with Visibility $\geq 20 \text{ Km}$)
- Interception Distance: $\geq 600\text{m}$ (microwave); $\geq 2\text{km}$ (interference)
- Interception Range: $360^\circ \times 85^\circ$ (azimuth \times Elevation)
- System Response Time: $\leq 6\text{s}$ (from Receiving The Command To The Microwave Emission Time)
- Continuous Strike Capability: 20 Pulses Per Second, Capable Of Continuous Operation
- Highlight: **miniaturized high-power anti-drone jammer, microwave anti-drone security system, integrated anti-drone detection jamming system**



Product Description

Miniature High Power Microwave Anti-Drone Security System

1, Product overview

The high-power microwave anti-drone security system is a cutting-edge technology that employs high intensity microwave radiation to neutralize or disable targets. Specifically designed for critical infrastructure protection, it effectively counters low-altitude intrusions by light/micro drones, reconnaissance aircraft, cruise missiles, fiber-optic drones, and drone swarms. This system fulfills security requirements for high-stakes locations including political/military facilities, airports, ports, large dams, nuclear power plants, and public venues.



2, Product Technical Specifications

Parameter Type	Specifications
Target Detection Range	$\geq 5\text{km}$ (RCS $\geq 0.01 \text{ m}^2$)
Target Tracking Distance	$\geq 2\text{km}$ (with visibility $\geq 20 \text{ km}$)

Interception Distance	≥600m (microwave); ≥2km (interference)
Interception Range	360°×85° (azimuth × elevation)
System Response Time	≤6s (from receiving the command to the microwave emission time)
Continuous Strike Capability	20 pulses per second, capable of continuous operation

3, System Composition

The high-power microwave anti-drone security system features an integrated design combining early warning detection, tracking identification, and jamming countermeasures. It comprises three key components: a high-precision search radar for detecting low, slow, and small targets; infrared electrooptical sensors and radio frequency detection systems capable of all-weather tracking and identifying drone links across full frequency bands; along with two countermeasure systems—radio jamming and high-power microwave. The system operates through networked interaction with command centers. Its modular architecture delivers intuitive target status displays, while AI-assisted decision-making enhances automation and intelligence, enabling fully autonomous operation.

The system is composed of high power microwave subsystem (including microwave source, antenna feeder, sealing window, etc.), servo tracking subsystem (including infrared tracking, azimuth and pitch turntable), radar subsystem, cooling subsystem, power subsystem, command subsystem, chassis subsystem and communication interface.

The system adopts vehicle-mounted integration to achieve functional and performance indicators, meeting mobility requirements. Using the vehicle chassis as the carrier, it optimizes equipment layout, performs noise reduction, temperature control, and electromagnetic protection to ensure convenient, comfortable, and safe operation. The system design schematic is shown in Figure 1, Figure 2, and Figure 3.

4, After-Sales service

- 1) We offer 24 hours service after sales
- 2) If there are any usage or quality issues with the product, we provide online technical support to diagnose the cause of the problem.
- 3) Should you find the products unsatisfactory, kindly return it to us within a period of 3 months from the date of dispatch. Upon receipt and inspection, should the products be found to be free from any damage attributable to human factors, a full refund will be granted. Alternatively, we can engage in discussions to amend the product and subsequently reship the product to you.
- 4) This PI is applicable to the DDP shipping agreement.

5, Application Scenarios



6, Certification Certificate



7, Company profile

Chongqing Miao Yitang Technology Co., Ltd. is a specialized company engaged in anti-drone and unmanned intelligent defense management. With the technical support from the AI Internet of Things Research Institute of the Chinese Academy of Sciences and collaborations with multiple intelligent AI companies, the company has established research laboratories for AI unmanned field products, accumulating a variety of technical patents.

The company's products are widely applied to unmanned automatic management solutions for various defense and perimeter areas, including AI anti-drone systems and AI unmanned vehicle patrol systems. These systems integrate with multiple technologies such as optoelectronics, radar, vibration, thermal imaging, facial recognition, and radio frequency management, truly achieving a 24-hour uninterrupted anti-drone defense and ground perimeter defense warning system. This allows for cost savings for clients, reduction in human resource allocation, and

ensures the safety of clients' lives and property. The outstanding security system has won the company an excellent reputation and created higher value for its partners.



8, Customer Service

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CUSTOMER SERVICE

- * Fast and patient communication: professional sales reply immediately
- * Fast delivery: usually 2-7 days
- * Flexible Safe shipping: fast by air or sea with cheap freight
- * Customer-friendly: complete user manual and exact video training provided
- * After sales service: one year warranty and life time technical support



Chongqing Miao Yi Tang Technology Co., Ltd.

+8613101235550

gary@chinaantidrone.com

chinaantidrone.com

www.chinaantidrone.com