

Shield-Shaped Anti Drone Jammer with Dual-Layer Identification and Extended Battery Life for Comprehensive UAV Defense

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DF-04
- Minimum Order Quantity: 1
- Price: 30,300
- Delivery Time: 10 work days
- Payment Terms: L/C,T/T
- Supply Ability: 1000units per month



Product Specification

- Detection Frequency: 300MHz -6000MHz
- Direction Finding Accuracy: $\leq 30^\circ$ (spectrum), $\leq 0.5^\circ$ (Drone ID)
- Detection Radius: 5km
- Jamming Frequency: 433MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 1.6GHz, 2.4GHz, 5.2GHz, 5.8GHz (customizable)
- Jamming Radius: 3km
- Working Time: Built-in Battery: Detection Time For 1h; Jamming Time For 30 Mins / External Battery: Detection Time For 5h; Jamming Time For 40 Mins / Customizable External Battery: Detection Time For 10h; Jamming Time For 2
- Power Supply: Built-in Battery, External Power Adapt
- Working Temperature: $-20 \sim +55$
- Product Type: Shield-shaped Design
- Power Consumption: $\leq 650w$

Unified UAV Detection & Jamming Platform

1, Overview

The cutting-edge multi-mission defender represents a sophisticated integration of detection and jamming capabilities, designed to provide comprehensive protection against unauthorized drone incursions in critical airspace. This advanced counter-UAV system serves as an essential security component for infrastructure protection, event security, and sensitive area monitoring, addressing the growing concerns surrounding the misuse of unmanned aerial vehicles.

At the core of the system lies its sophisticated detection technology, which employs dual-layer identification protocols to accurately recognize and classify potential threats. The defender continuously monitors the electromagnetic spectrum across multiple frequency bands, analyzing the unique signal characteristics emitted by various drone models. This includes identifying transmission patterns, frequency hopping sequences, and modulation techniques specific to different UAV communication systems operating in both civilian and industrial bands.

Simultaneously, the system verifies Drone ID information through advanced radio frequency identification (RFID) and digital signature authentication, cross-referencing detected drones against authorized databases in real-time. This ensures positive identification of registered UAVs while immediately flagging unregistered or suspicious aircraft that may pose security risks. The detection system operates with exceptional sensitivity, capable of identifying even low-power signals from small commercial drones at significant distances.

Complementing its detection capabilities, the multi-mission defender utilizes state-of-the-art electromagnetic suppression technology to neutralize threats effectively. Once an unauthorized drone is detected and classified as a threat, the system can selectively interfere with and block specific drone signals across customizable frequency bands, including 2.4GHz, 5.8GHz, and other common UAV communication frequencies.

This precision jamming capability employs adaptive beamforming techniques to direct focused electromagnetic energy towards the intruding drone, disrupting its communication links without causing unnecessary interference to surrounding electronic systems. The system can target multiple communication channels simultaneously, including control signals, video transmission, and telemetry data links between the UAV and its operator.

The system's sophisticated algorithms determine the optimal response based on the specific scenario and threat assessment parameters. In many cases, the defender can force non-compliant drones to initiate their automated return-to-home protocols by disrupting command signals while maintaining GPS connectivity. This approach allows the UAV to safely return to its point of origin without risking mid-air failures or uncontrolled crashes.

For more immediate threats or non-responsive UAVs, the system can implement more comprehensive signal blocking across both control and navigation bands, guiding the drone to a safe, controlled landing in a designated area. This graduated response approach ensures that security personnel can address each situation appropriately, from issuing warnings to implementing full neutralization measures when necessary.

The multi-mission defender offers several key advantages over traditional drone defense systems. Its compact, integrated design allows for flexible deployment in various operational environments, from fixed installations protecting critical infrastructure to mobile units securing temporary events. The system's intuitive user interface provides security operators with real-time threat visualization and control, enabling rapid decision-making in dynamic situations.

Furthermore, the defender's machine learning capabilities allow it to continuously adapt to emerging threats, automatically updating its threat database with new drone models and communication protocols. This future-proof design ensures long-term effectiveness against evolving UAV technologies, providing organizations with a sustainable solution for ongoing airspace security challenges.

2, Feature

The anti-drone system represents a significant advancement in integrated security technology, combining both detection and jamming functionalities within a single, high-performance device. This innovative integration eliminates the need for multiple separate systems, streamlining deployment and operation while reducing overall complexity. A single unit can effectively detect unauthorized drones and immediately initiate appropriate countermeasures, providing seamless protection against aerial threats without requiring additional equipment or manual intervention between detection and response phases.

One of the most impressive aspects of this system is its exceptional operational range, making it suitable for protecting large areas and critical infrastructure. With a detection radius of at least 5 kilometers, the system can identify potential threats at significant distances, providing valuable response time before unauthorized drones approach sensitive airspace. Complementing this extensive detection capability is a jamming radius of at least 3 kilometers, ensuring that once a threat is identified, the system can neutralize it effectively from a safe distance, preventing potential incursions into restricted areas.

Designed for extended field operation, the system features an ultra-long battery life thanks to its large-capacity rechargeable battery. This power-efficient design allows for prolonged deployment without requiring frequent recharging, making it ideal for perimeter security, temporary event protection, or remote location monitoring. The robust battery system ensures continuous operation even in situations where external power sources may be unavailable, providing reliable security coverage whenever and wherever it's needed.

The system incorporates advanced automatic library adding functionality, enabling it to adapt to evolving drone technologies and emerging threats. This capability allows the expansion of the drone spectrum feature library through both on-site manual and automatic signal collection methods. As new drone models and communication protocols emerge, the system can update its threat database in real-time, ensuring that it remains effective against the latest UAV technologies. This adaptive approach guarantees long-term effectiveness and future-proofs the investment in drone defense infrastructure.

3, Technical Specifications

Detection Frequency	300MHz-6000MHz
Direction Finding Accuracy	≤30° (spectrum), ≤0.5° (Drone ID)
Detection Radius	5km
Jamming Frequency	433MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 1.6GHz, 2.4GHz, 5.2GHz, 5.8GHz (customizable)
Jamming Radius	3km
Working Time	Built-in battery: Detection time for 1h; Jamming time for 30 mins / External battery: Detection time for 5h; Jamming time for 40 mins / Customizable external battery: Detection time for 10h; Jamming time for 2h
Power Supply	Built-in battery, external power adapter
Working Temperature	-20°C~+55°C
Product Type	Shield-shaped design
Power Consumption	≤650w

4, Application Scenarios



5, Certification Certificate



6, 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.



7, Customer 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 reshipe the product to you.

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