

Handheld Drone Detector with Self-Developed Algorithms for Quick and Accurate Detection in a Compact and Lightweight Design

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DF-02
- Minimum Order Quantity: 1
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: L/C,T/T
- Supply Ability: 1000units per month



Product Specification

- Frequency Range: 300MHz-6200MHz (Customizable Frequency)
- Detection Radius: $\geq 2\text{km}$
- Detection Response Time: $\leq 3\text{s}$
- Power Supply: Two Lithium Batteries, Each One 3500mAh, Battery Life $\leq 5\text{h}$; Support Battery Replacement
- Boot Time: 3s
- Dimension (L*W*H): 129mm*62mm*55mm(without Antenna)
- Screen Size: 1.77 Inches
- Working Temperature: $-20 \sim +55$
- Highlight:

Self-Developed Algorithms Handheld Drone Detector

Quick and Accurate Detection Portable Drone Detector

Compact and Lightweight Drone Detection Device



HANDHELD DETECTOR

1, Overview

The handheld drone detector demonstrates remarkable capabilities in the detection and identification of various types of drones. It can accurately identify quad - rotors, which are among the most common types of drones known for their four - rotor configuration enabling stable flight and maneuverability. Fixed - wings, with their distinct aerodynamic design for long - range and high - speed flight, are also within its detection scope. DIY drones, which are often assembled by enthusiasts with custom - made components, and FPV (First - Person View) drones, allowing pilots to experience flight as if they were on board, can be easily recognized by this device.

The detector accomplishes these identification tasks through the utilization of several cutting - edge technologies. It makes use of self - developed low - power digital receiving technology, which is crucial for efficiently capturing the faint signals emitted by drones while consuming minimal power, ensuring long - lasting operation. Additionally, it incorporates signal detection algorithms that are designed to sift through the vast amount of electromagnetic noise in the environment and isolate the specific signals associated with drones. Complementing these, the advanced drone identification algorithms play a vital role in analyzing the captured signals and accurately determining the type of drone based on unique characteristics such as signal patterns, frequency bands, and flight parameters.

2, Feature

This handheld drone detector is a professional-grade apparatus for drone detection. It incorporates advanced signal detection technologies and intelligent recognition algorithms, enabling the effective identification and tracking of diverse drone signals. The device is compact, lightweight, and user-friendly, rendering it suitable for a wide array of security and monitoring scenarios.

The detector boasts comprehensive drone model recognition capabilities. It can accurately detect mainstream brand drones in the market, including well-known brands such as DJI, Autel, HUBSAN, and Xiaomi. Simultaneously, it also supports the detection of professional-grade drone equipment such as Skydoirh, TBS, ELrs, Futaba, and Foxeer, as well as special types of drones like FPV racing drones, ensuring reliable detection results across various application scenarios.

The device utilizes full-frequency band detection technology, with an operating frequency range spanning from 300MHz to 6200MHz. It is capable of capturing various signals, including drone communication, control, and image transmission signals. This extensive frequency coverage ensures effective detection of nearly all types of drones in the market. Additionally, the device supports customized frequency ranges, which can be adjusted according to specific requirements to enhance the targeting and accuracy of detection.

The detector has robust firmware upgrade capabilities. It allows users to flexibly set detection frequency bands as needed to achieve focused monitoring of specific frequency ranges. Meanwhile, the device supports online updates of the model library, enabling the timely addition of new drone model recognition data to ensure that the device always maintains the latest detection capabilities. This continuous upgrade feature enables the device to adapt to the constantly evolving drone technology and market demands.

The device is designed with user convenience in mind. It is equipped with a single external high-efficiency ultra-wideband antenna to ensure the stability and sensitivity of signal reception. Its compact size and lightweight design make it easy to carry and operate, suitable for long-term use. Both professional security personnel and ordinary users can quickly master the operation of the device to effectively monitor drone activities in the surrounding area.

In conclusion, this handheld drone detector, with its comprehensive model support, full-frequency band detection capabilities, flexible upgrade functions, and convenient operation experience, has emerged as an ideal choice in the field of drone prevention and control. It can provide reliable technical support for the security of important locations, the monitoring of large-scale events, and the protection of personal privacy.

3, Technical Specifications

Frequency Range	300MHz-6200MHz (Customizable frequency)
Detection Radius	≥2km
Detection Response Time	≤3s
Power Supply	Two lithium batteries, each one 3500mAh, battery life ≤5h; support battery replacement
Boot Time	3s
Dimension (L*W*H)	129mm*62mm*55mm(without antenna)
Screen Size	1.77 inches
Working Temperature	-20°C~+55°C

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 reship 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



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