

Drone Detection System with 70MHz-8GHz Full Band Detection 3-10km Long Range and 360° Omnidirectional Monitoring

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CE, FCC, ISO9001
- Model Number: KZ-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

- Application: Anti-drone
- Feature: Remote Control
- Frequency: 70MHz-8GHz(Full Band)
- Video Interception Band: 500 MHz--6.2 GHz (Analog)
- FPV Video Interception Range: ≥ 1.5 Km
- Response Time: ≤ 5 Seconds
- Monitoring Coverage: 360° Omnidirectional (No Blind Zones)
- Supported Protocols: DJI, Autel, Mainstream RID/DID Protocols
- Alarm Mode: Sound + Light + Vibration
- Power Consumption: ≤ 100 W
- Power Supply: AC 220 V / DC 24 V (Optional)
- Highlight: 70MHz-8GHz Drone Detection System,
360° Omnidirectional Drone Detection System,
3-10km Drone Detection System



More Images



for more products please visit us on chinaantidrone.com

Drone Detection System With FPV Video Detection Long Range 3-10km Frequency Range 70MHz-8000MHz

System Overview

Advanced drone detection system featuring comprehensive spectrum analysis and intelligent threat identification capabilities for enhanced low-altitude security.

Key Features

- Multi-type drone identification: Detect multi-rotor, fixed-wing, DIY, FPV drones; support DJI, Autel & mainstream RID/DID protocols
- Full-band detection coverage: 70 MHz-8 GHz full spectrum scanning, supports spectrum analysis
- Drone + controller dual positioning: Synchronize UAV & operator location information
- Triple alarm mode: Sound + light + vibration real-time alert
- Intelligent cloud platform: Unattended automatic detection, alarm, positioning & countermeasure linkage; whitelist/blacklist management; GIS map display; log playback & statistics
- Optional AI self-learning: Automatically update UAV model database, find unknown drone

Product Images



KZ-02

**Drone Detection
RF Device**



**It can accurately
Identify multi-rotor drones
fixed-wing UAVs
DIY drones
FPV drones**





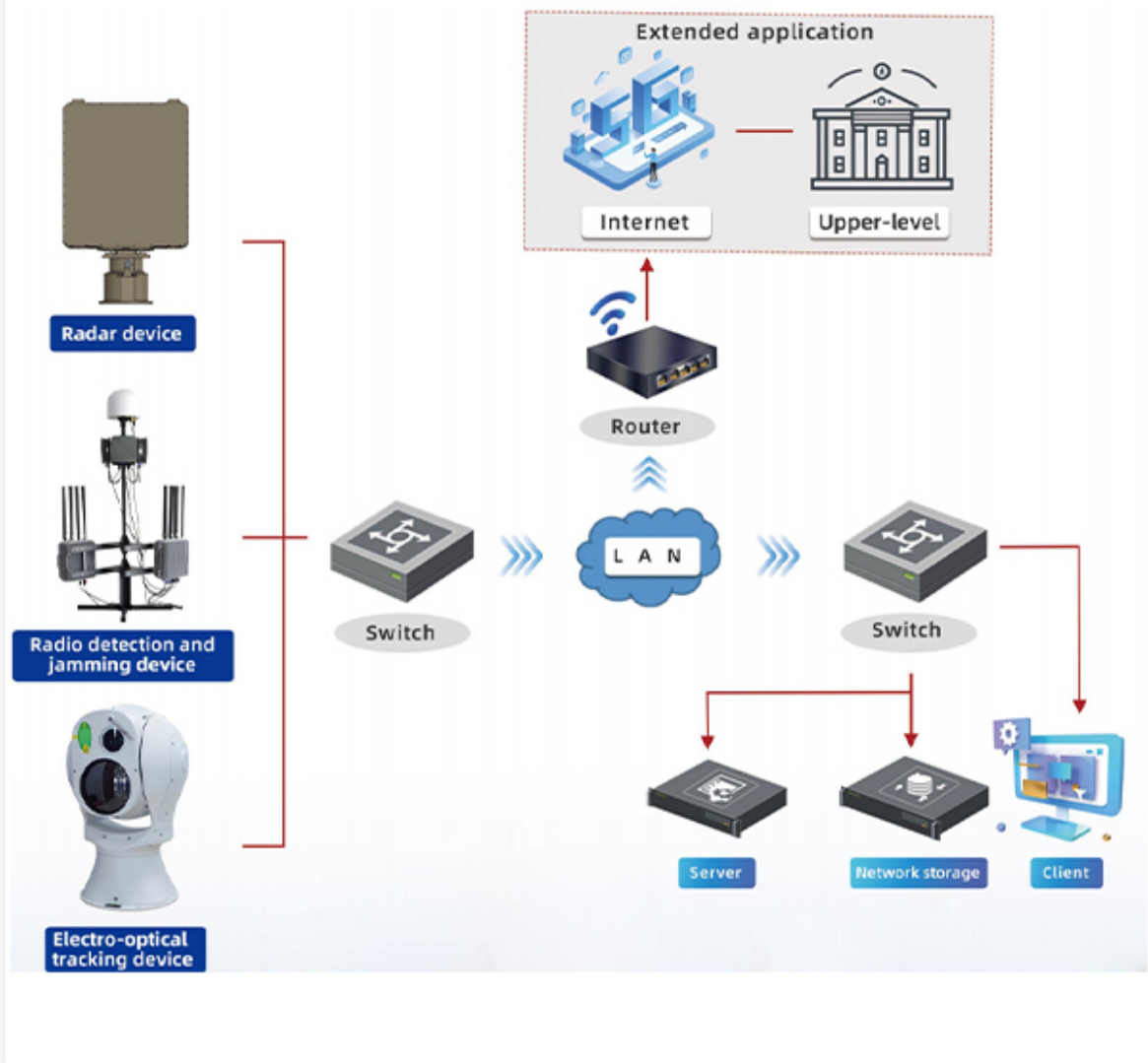
NO.	NAME	Specification
1	Detection Frequency Range	70 MHz ~ 8 GHz All frequency range (with spectrum analysis function)
2	Detection Range	3-10 km (Line-of-sight conditions, electromagnetic environment noise: -90 dB~-95 dB)
3	Position Distance	DID:3-10 km , RID $\geq$ 2 km (Line-of-sight conditions, electromagnetic environment noise: -90 ~ -95dB) ;
4	Analyze UAV Type	Models supporting the DID protocol (O2, O3, O3+, O4, O4+ protocols) and those supporting the RID protocol, including the entire DJI series, the entire Autel series, and other mainstream drone models supporting the RID function.
5	FPV Video Transmission Detection	$\geq$ 1.5 km (Support real-time video viewing, line-of-sight conditions, analog video transmission power $\geq$ 2.5 W)
6	Analog Video Transmission Capture	Supports viewing analog video
7	Detection Range	The horizontal detection angle can reach up to 360°
8	Detection Response Time	The time required from the drone being powered on to the product detecting and reporting the drone is $\leq$ 5 s (under close-range line-of-sight test conditions: the distance between the target drone and the product is $\leq$ 500m).
9	Display	UAV distance, flight altitude, speed, position (including latitude and longitude, required to be accurate to within 1 meter), aircraft model, aircraft serial number (SN), aircraft takeoff point, aircraft return point, aircraft real-time trajectory, etc.
10	Cloud Platform	(1) It features unattended and manual control functions, capable of automatically completing drone detection, identification, alerting, positioning, and counteraction. The software can automatically activate jamming equipment and perform fully automatic tracking and suppressive jamming of

11	Power Consumption	≤100 W
12	Operation Temperature	(-40°C~+60°C) ±2°C
13	Weight	≤17 kg
14	Size	400 mm*531 mm (直径*高)
15	IP Rating	IP66
16	AI-Powered Self-Learning for Updating UAV Model Database	Optional

Full-Band Detection Coverage: 70 MHz–8 GHz full spectrum scanning

Long Detection Range: Line-of-sight up to 3–10 km







Technical Expertise

The company is affiliated with the Institute of Internet of Things (IoT) under the Chinese Academy of Sciences, specializing in low-altitude security research with strong technological expertise. The group company currently has an R&D team of over 100 members and more than 120 test engineers. Among them, there is 1 academician of the Chinese Academy of Sciences, 17 Ph.D. holders, and 48 master's degree holders.

We specialize in radio spectrum detection and low-altitude security, with radio frequency scanning feature identification and decoding as our core technology, and have made critical breakthroughs via intelligent unsupervised learning and UHDF (Ultra-High Dimensional Signal Feature Extraction) Technology to resolve industry dilemmas in drone signal recognition, positioning and jamming within complex electromagnetic environments.

Boasting industry-leading core indicators: full 70MHz-6GHz frequency coverage, detection sensitivity up to -110dBm, over 95% target recognition accuracy in complex settings, signal response time ≤ 3 seconds, and clutter suppression rate above 90%, our system can track and control multiple intruding drones simultaneously, accurately identify all drone types including quadcopters, fixed-wing, DIY modified and FPV racing drones, and fully guarantee the sensitivity and accuracy of low-altitude spectrum detection.

Company Overview



CAS INSTITUTE OF IoT (INTERNET OF THINGS) AFFILIATED ENTERPRISE



FOCUS: LOW-ALTITUDE SECURITY RESEARCH



OUR TEAM

- R&D Team:
>100 Members
- Test Engineers:
>120
- CAS Academician
1
- PhD Holders:
17
- Master's Degree
Holders: **48**



CORE TECHNOLOGIES

- RADAR SYSTEMS —
- MIMO Microstrip Antenna Array (Drone Detection)
- Waveguide Slot Antennas + DBF (Digital Beamforming)
- Clutter Filter Algorithms (filters weather/birds/low-altitude clutter)
- SPECTRUM TECHNOLOGY —
- 70MHz - 8000MHz Broadband SDR (Tx/Rx)
- Self-Developed: Ultra-wideband Signal Sources + Power Amplifiers
- INTEGRATED SOLUTIONS —
- Omnidirectional + Directional Antenna Integration
- AI Photoelectric Camera Recognition & Tracking
- Custom Scenario-Tailored Solutions

GLOBAL PARTNERS

- Europe: UK, Spain
- Middle East
- South America

FIELD ENGINEERS:

Localized On-Site
Technical Support
(Tailored Customer
Solutions)

Packaging & Shipping Specifications

Packaging & shipping specifications

Step 1: Product Inspection



Check device functionality & compliance with export standards

Step 2: Custom Packaging



Use foam padding & waterproof materials

Step 4: Documentation



Prepare commercial invoice & export declaration

Step 5: Shipping Arrangement



Select reliable carrier with air/sea options

Step 6: Tracking & Delivery



Provide real-time tracking number to client





Production Workflow

Core Competencies Overview

R&D & Design

Customizable core parameters (frequency, detection range, countermeasure mode); professional RF, algorithm & structural teams ensure stability in complex environments

Quality Control

IQC for incoming materials, IPQC for key processes; FQC includes full-function, environmental & EMC tests

Precision Manufacturing

SMT for RF modules, CNC antenna with VSWR test; parts meet IP65; automated lines produce 50+ units/day

Packaging & Logistics

Custom shockproof packaging, multiple logistics options with full tracking





Customization Capabilities

Customization Services

- **OEM/ODM Service:**

Full-process hosting; customers only need to provide requirements and relevant standards to get qualifier

- **Sample Customization:**

3-7 days fast delivery; sample fee can be deducted from bulk orders (negotiable).

- **Bulk Customization:**

Flexible MOQ, 15-30 days delivery for bulk orders.

- **Packaging Customization:**

Multiple schemes available, suitable for overseas transportation and sales needs.

WUHAN HAIYU

Factory Profile

MYT TEC

We are committed to becoming a leading global intelligent security expert at home and abroad and an innovator in the field of counter-drones. MYTTEC is established by the R&D center of Internet of Chinese Academy of Sciences, Wisesoft Co.,Ltd, and the founding team. As the leading intelligent security expert,MYTTEC has served hundreds of customers at home and abroad. We have branches and offices in Beijing,Shenzhen,Jiangxi,Jilin,Jiangsu,Guangdong,Fuji-an,etc.

100⁺
Served domestic and foreign customers

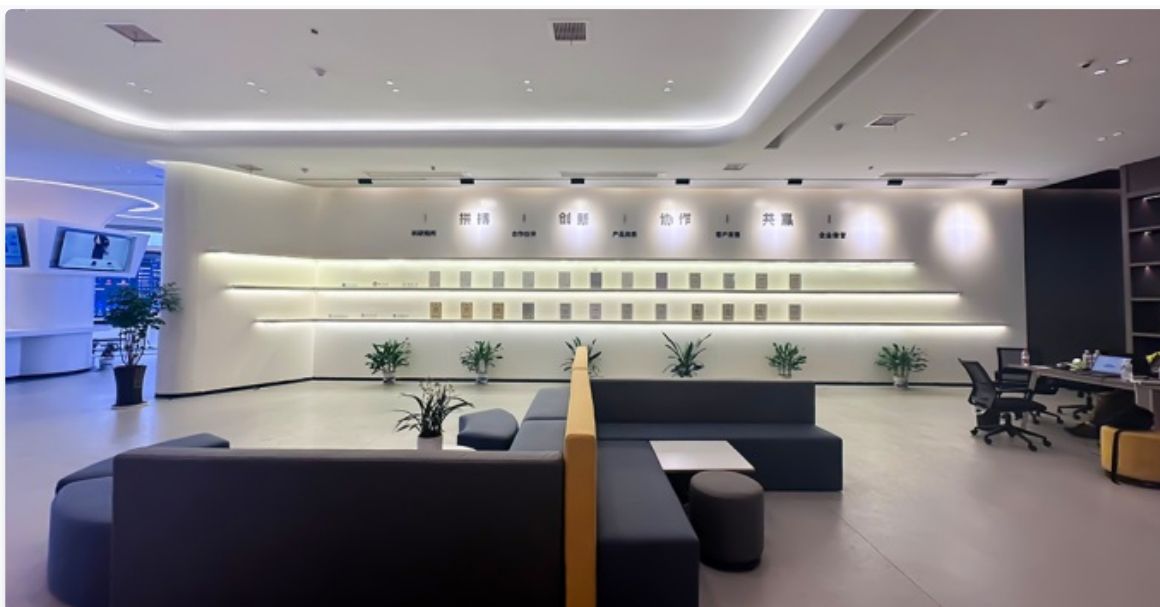
Relying on the strong scientific research capabilities of the Chinese Academy of Sciences and the industry experience of Wisesoft Co.,Ltd, MYTTEC focuses on innovation and R&D of three-dimensional security. We have over 80 patents and software copyrights. 8 products have passed the Ministry of Public Security certification.

80⁺
Patents and software copyrights

Core Technologies

To meet the specific needs of unattended ground sensing and unattended low-altitude defense in scenarios of complex geographical environment, harsh climate, and wild environment of weak network and electricity infrastructure, MYTTEC develops core technologies of Unsupervised-learning-based high dimensional features extraction, multi-source sensing, low power consumption, weak signal











Trade Show Participation



Chongqing Miao Yi Tang Technology Co., Ltd.



+8613101235550



gary@chinaantidrone.com



chinaantidrone.com

www.chinaantidrone.com