

## KZ-02 Fixed Drone Detection System with 70MHz-8GHz Full Band 3-10km Range and 360° Omnidirectional Monitoring

## 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

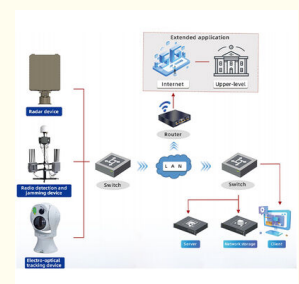


## Product Specification

- Protection Grade: IP66
- Highlight: **Fixed Drone Detection System,  
70MHz-8GHz Drone Detection System,  
3-10km Range Drone Detector**



***More Images***



## Product Description

### KZ-02 Fixed Drone Detection System

70MHz-8GHz Full Band | 3-10km Range | 360° Omnidirectional IP66 Drone Detector

#### Product Overview

Advanced fixed drone detection system providing comprehensive aerial threat monitoring and identification capabilities.

**Full-Band Coverage:** 70 MHz-8 GHz full-spectrum scanning with spectrum analysis capability

**Long Detection Range:** 3-10 km line-of-sight detection; 2-10 km DID/RID positioning;  $\geq 1.5$  km FPV video interception

**360° Omni-Directional Monitoring:** 360° horizontal coverage with no blind spots

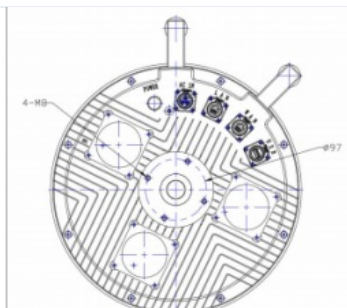
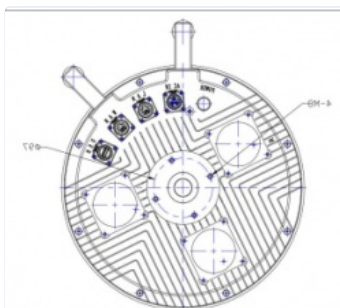
**Ultra-Fast Response:** Detection to alarm within  $\leq 5$  seconds

**High-Precision Positioning:**  $\leq 1$  meter latitude/longitude accuracy with real-time trajectory tracking

#### Product Images

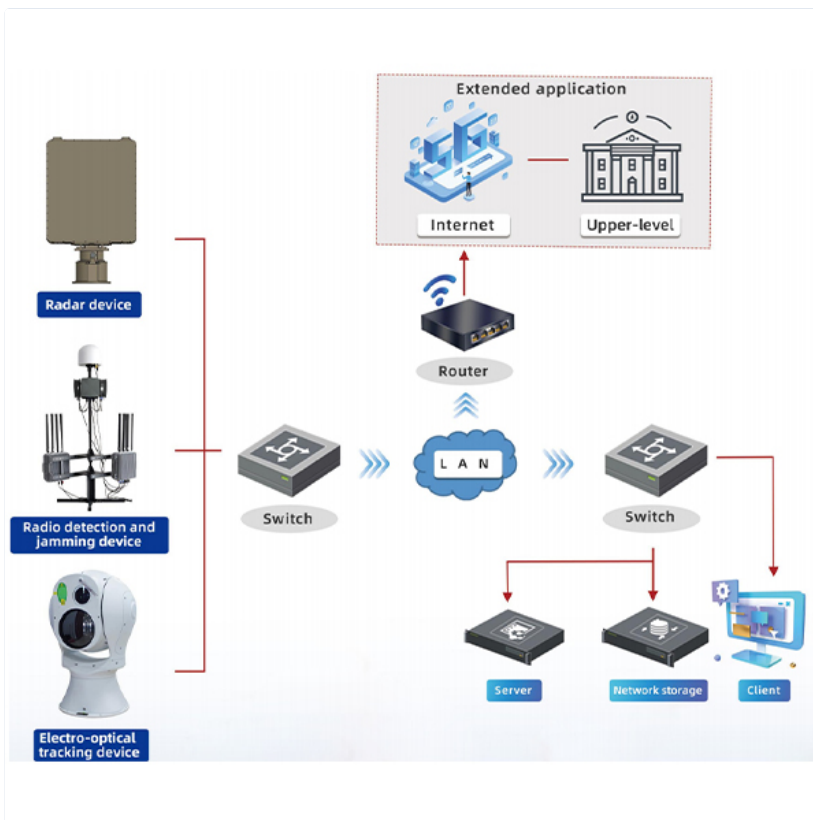


| NO. | NAME                                                     | Specification                                                                                                                                                                                                                                                                                     |
|-----|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                        | $\leq$ 100 W                                                                                                                                                                                                                                                                                      |
| 12  | Operation Temperature                                    | (-40°C~+60°C) $\pm$ 2°C                                                                                                                                                                                                                                                                           |
| 13  | Weight                                                   | $\leq$ 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



## Company Profile

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.

The company is at the forefront of the industry in low-altitude radar, spectrum-based radio detection equipment, photoelectric camera tracking



# 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)

### Technical Expertise

We specialize in radio spectrum detection and low-altitude security, with radio frequency scanning feature identification and decoding as our core technology. Critical breakthroughs have been made 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.

### Industry-Leading Performance

- Full 70MHz-6GHz frequency coverage
- Detection sensitivity up to -110dBm
- Over 95% target recognition accuracy in complex settings
- Signal response time  $\leq 3$  seconds
- Clutter suppression rate above 90%

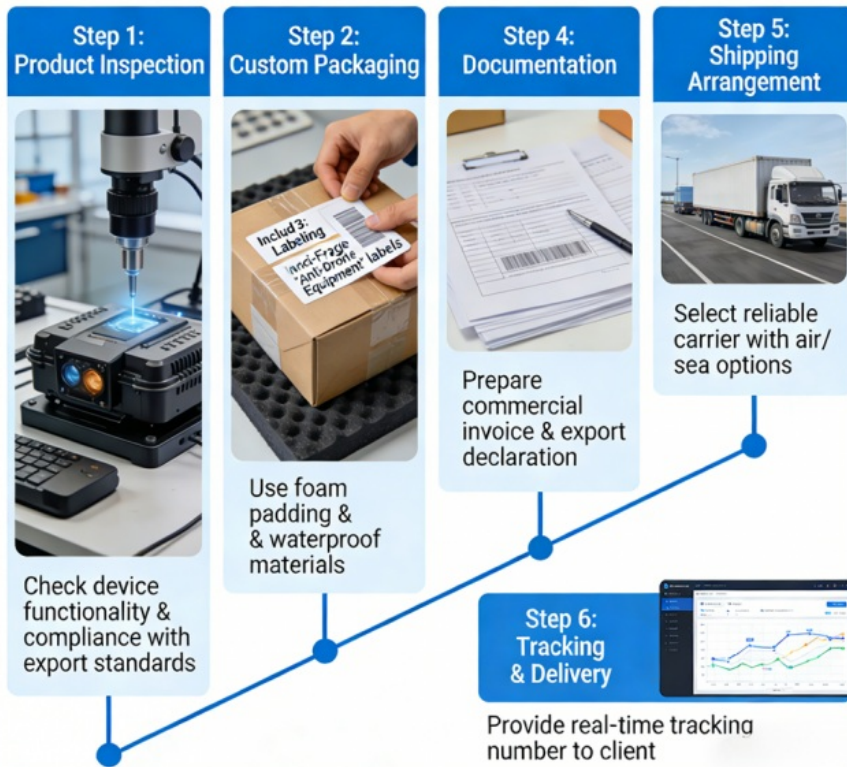
Our system can track and control multiple intruding drones simultaneously, accurately identify all drone types including quadcopters, fixed-wing, DIY modified and FPV racing drones, and fully guarantee the sensitivity and accuracy of low-altitude spectrum detection.

### Global Partnerships

Our key partners currently span across European nations such as the United Kingdom and Spain, as well as the Middle East and South America. Our engineers, working on the ground, have accumulated extensive hands-on experience with local conditions, enabling us to provide our customers with uniquely tailored, cutting-edge technical support.

### Packaging & Shipping Specifications

## Packaging & shipping specifications





## 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; military-grade 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.

## Competitive Advantages

### “COUNTER-UAV DOMAIN TECHNOLOGIES”

#### LOW-ALITITUE ANTI-DrONE RADAR

- S-band – 3 km Dietection Range
- X-band – 5 km Distection Range
- Ku-band – 10 km Dietection Range
- Faise Alams Rate: <5% (arail tatet ldtailiation)



#### RF EQUIPMENT

Orperring Frequency Range: 70  
MHz – 8000 MHz



#### INTEGRATED UNLIFED SYSTEM

Comfrimed Radr + RF Devices + Electro-Oysiral Camera +  
Spotøriga Eypuiment



#### GLOBAL CLIENT REGIENS & EXPERISE

Eursape | Africa | Miidle East  
Suisthest Júria | North America | South America  
Regional Evironment Caliiration + Custonized Devlmenter

## 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,Fujian,etc.

**100<sup>+</sup>**  
Served domestic and foreign customers

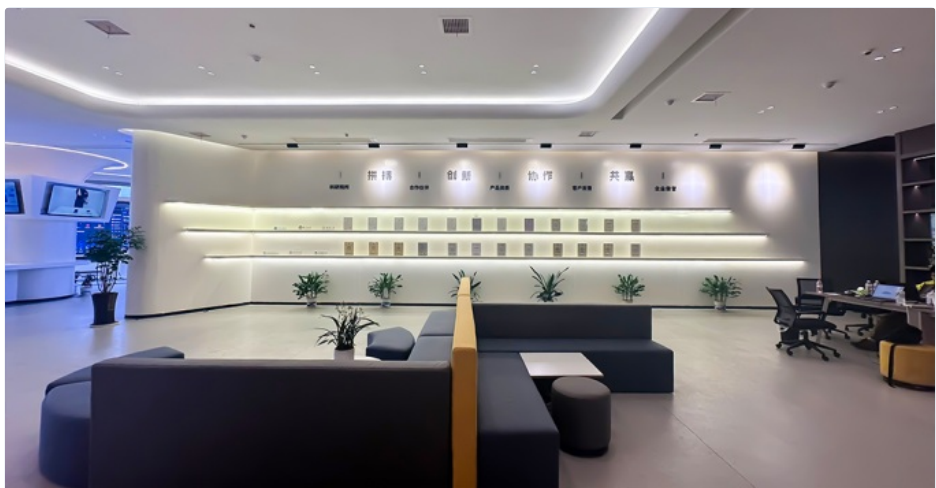
Relying on the strong scientific research capabilities of the Chinese Academy of Sciences and the industry experience of Wisesoft Co.,Ltd, MYTTEC focuses on innovation and R&D of three-dimensional security. We have over 80 patents and software copyrights. 8 products have passed the Ministry of Public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

**80<sup>+</sup>**  
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









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