

## KZ-02 Fixed Drone Detection System with 70MHz-8GHz Full Band 3-10km Range and IP66 Protection

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

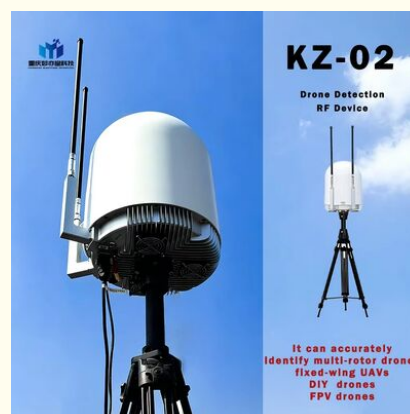
### Full-Band Detection Coverage:

70 MHz-8 GHz full spectrum scanning  
Long Detection Range: Line-of-sight up to 3-10 km



### Product Specification

- DID/RID Range: 2-10 Km
- Highlight: IP66 Drone Detection System, Full Band Drone Detection System



### More Images



for more products please visit us on [chinaantidrone.com](http://chinaantidrone.com)

## Product Description

### KZ-02 Fixed Drone Detection System

#### Product Overview

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

#### Key Features

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

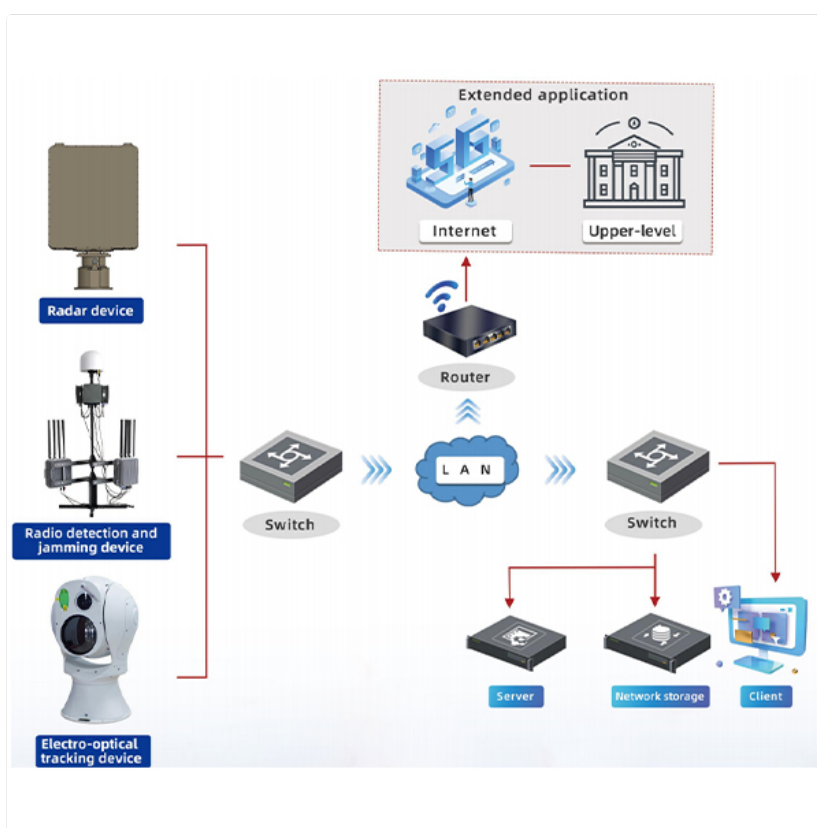
Long Detection Range: 3-10 km line-of-sight detection; 2-10 km DID/RID positioning;  $\geq 1.5$  km FPV video interception

Dual Positioning: Synchronous positioning of both drone and controller

FPV Video Interception: Real-time monitoring of 500 MHz-6.2 GHz analog video

Triple Alarm Mode: Sound, light, and vibration alarm for instant alert

#### 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<br>Transmission Capture                              | Supports viewing analog video                                                                                                                                                                                                                                                                     |
| 7  | Detection Range                                                   | The horizontal detection angle can reach up to 360°                                                                                                                                                                                                                                               |
| 8  | Detection Response<br>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 $\leq 500$ m).                                                        |
| 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<br>Temperature                                          | (-40°C~+60°C) $\pm 2^\circ\text{C}$                                                                                                                                                                                                                                                               |
| 13 | Weight                                                            | $\leq 17$ kg                                                                                                                                                                                                                                                                                      |
| 14 | Size                                                              | 400 mm*531 mm (直径*高)                                                                                                                                                                                                                                                                              |
| 15 | IP Rating                                                         | IP66                                                                                                                                                                                                                                                                                              |
| 16 | AI-Powered<br>Self-Learning for<br>Updating UAV Model<br>Database | Optional                                                                                                                                                                                                                                                                                          |



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

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



## Manufacturer 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.

## R&D Capabilities

R&D team of over 100 members and more than 120 test engineers

Includes 1 academican of the Chinese Academy of Sciences, 17 Ph.D. holders, and 48 master's degree holders

Industry leadership in low-altitude radar, spectrum-based radio detection equipment, photoelectric camera tracking devices, and integrated defense systems

Core Technology

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

Technical Specifications

- Full 70MHz-6GHz frequency coverage
- Detection sensitivity up to -110dBm
- Over 95% target recognition accuracy in complex settings
- Signal response time ≤3 seconds
- Clutter suppression rate above 90%
- Capable of tracking and controlling multiple intruding drones simultaneously
- Accurately identifies all drone types including quadcopters, fixed-wing, DIY modified and FPV racing drones

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 provide uniquely tailored, cutting-edge technical support based on extensive hands-on experience with local conditions.



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

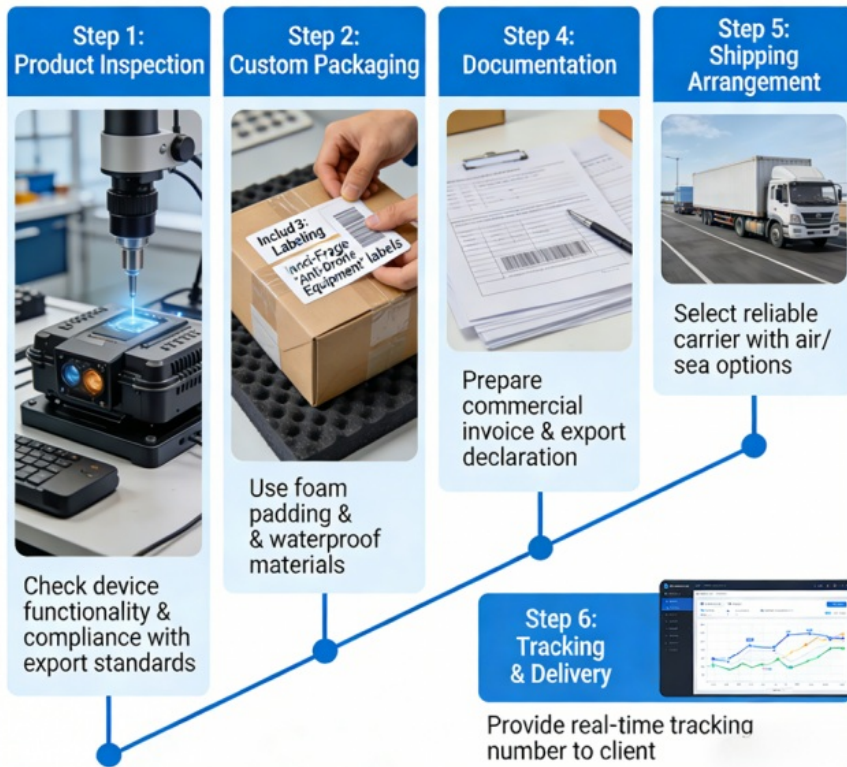
GLOBAL PARTNERS

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

FIELD ENGINEERS:  
Localized On-Site  
Technical Support  
(Tailored Customer Solutions)

Packaging & Shipping Specifications

## Packaging & shipping specifications





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



#### RF EQUIPMENT

Orperring Frequency Range: 70  
MHz – 8000 MHz



#### INTEGRATED UNLIFED SYSTEM

Comfrimed Radr + RF Devices + Electro-Oysiral Camera +  
Spobøriga Eypūment



#### GLOBAL CLIENT REGIENS & EXPERISE

Eursape | Africa | Miidle East  
Suisthest Júria | North America | South America  
Regional Evironment Caliiration + Custionized Dewlmetur

## 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, Wisisoft 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

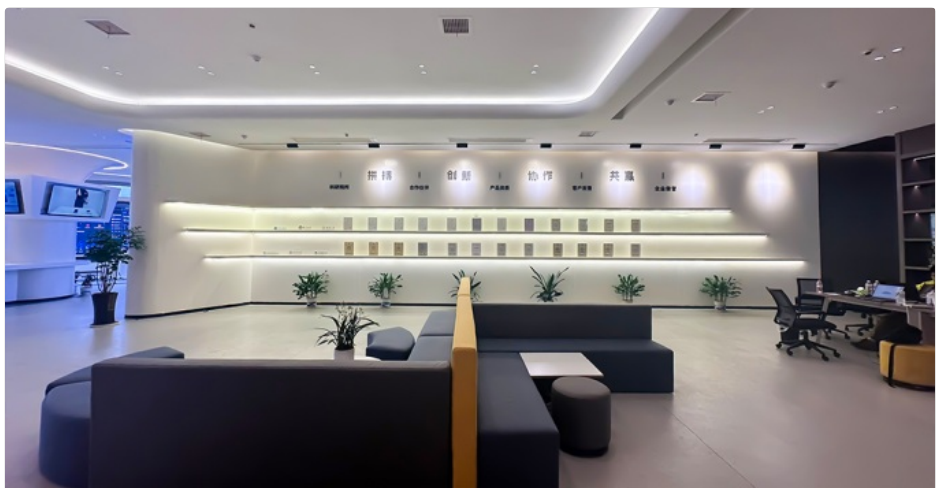
Relying on the strong scientific research capabilities of the Chinese Academy of Sciences and the industry experience of Wisisoft Co.,Ltd, MYTTEC focuses on innovation and R&D of three-dimensional security. We have over 80 patents and software copyrights. 8 products have passed the Ministry of Public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