

Fixed KZ-02 Drone Detection Device With 70 MHz 8 GHz Full Band RF Scanner And 360° Monitor For GIS Cloud Platform

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- 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

- Detection Frequency Range: 70 MHz 8 GHz All Frequency Range with Spectrum Analysis Function
- Detection Range: The Horizontal Detection Angle Can Reach Up To 360°
- Position Distance: DID:3-10 Km RID \geq 2 Km Line-of-sight Conditions, Electromagnetic Environment Noise -90 -95dB
- 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
- 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
- Analog Video Transmission Capture: Supports Viewing Analog Video
- Power Consumption: \leq 100 W



More Images



Product Description

Fixed KZ-02 Drone Detection System

Advanced fixed-site UAV detection device with full-band RF scanning, 360° monitoring capability, and integrated GIS cloud platform for comprehensive airspace security.

Product Overview

With the rapid development of unmanned aerial vehicle (UAV) technology, applications in aerial photography, agriculture, rescue operations, and security have become increasingly prevalent. However, unauthorized activities including illegal intrusion, malicious surveillance, and privacy violations pose serious threats to national security, public safety, and personal privacy.

The fixed-site KZ-02 UAV Detection Device is specifically engineered for precise drone detection and positioning. Through full-band scanning, multi-dimensional information analysis, and real-time alerting, it provides frontline situational awareness for airspace security, meeting detection needs for routine patrols and critical infrastructure protection.



Technical Specifications & Terminology

Product: Fixed-site KZ-02 UAV Detection Device

DID (Drone ID): UAV Identification Protocol for transmitting and identifying drone identity information

RID (Remote ID): UAV Remote Identification Protocol for remotely acquiring drone position, identity, and other information

FPV (First-Person View): First-person view providing real-time perspective of drone's flight through video transmission equipment

GIS (Geographic Information System): Geographic Information System used to present geospatial data and environmental information

Certifications & Qualifications

| 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 |

| NO. | NAME | Specification |
|-----|--|--|
| | | <p>drones based on the position information provided by the detection product.</p> <p>(2) It includes a whitelist and blacklist function.</p> <p>(3) It features a high-definition GIS system function: displays the surrounding environment, product deployment locations, and other information.</p> <p>(4) It includes log playback and statistical recording functions: drone intrusion logs, displaying angle, alarm time, and frequency information. It allows playback of drone intrusion records and provides statistical reports on drone intrusions.</p> <p>(5) It features a positioning function: the system has GPS positioning capability, enabling location marking on the map.</p> <p>(6) It can display product statuses such as offline, standby, power-off, and abnormal states.</p> <p>(7) It supports spoofing jamming of satellite navigation coordinate information received by drones using satellite navigation positioning, featuring functions such as linear mode and circular mode. (Optional function)</p> |
| 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 |

Company Profile

Affiliated with the Institute of Internet of Things (IoT) under the Chinese Academy of Sciences, we specialize in low-altitude security research with strong technological expertise. Our group company features an R&D team of over 100 members and more than 120 test engineers, including 1 academician of the Chinese Academy of Sciences, 17 Ph.D. holders, and 48 master's degree holders.

We are industry leaders in low-altitude radar, spectrum-based radio detection equipment, photoelectric camera tracking devices, and integrated defense systems. Our radar technology focuses on advanced clutter algorithms for signal processing to filter out weather, birds, and low-altitude clutter impacts.

We possess innovative low-altitude detection and identification technology for drones using MIMO microstrip antenna arrays, along with traditional waveguide slot antenna technology with DBF recognition. In spectrum signal transmission, we've independently developed ultra-wideband signal sources and power amplifiers with leading SDR broadband technology covering 70MHz to 8000MHz.

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

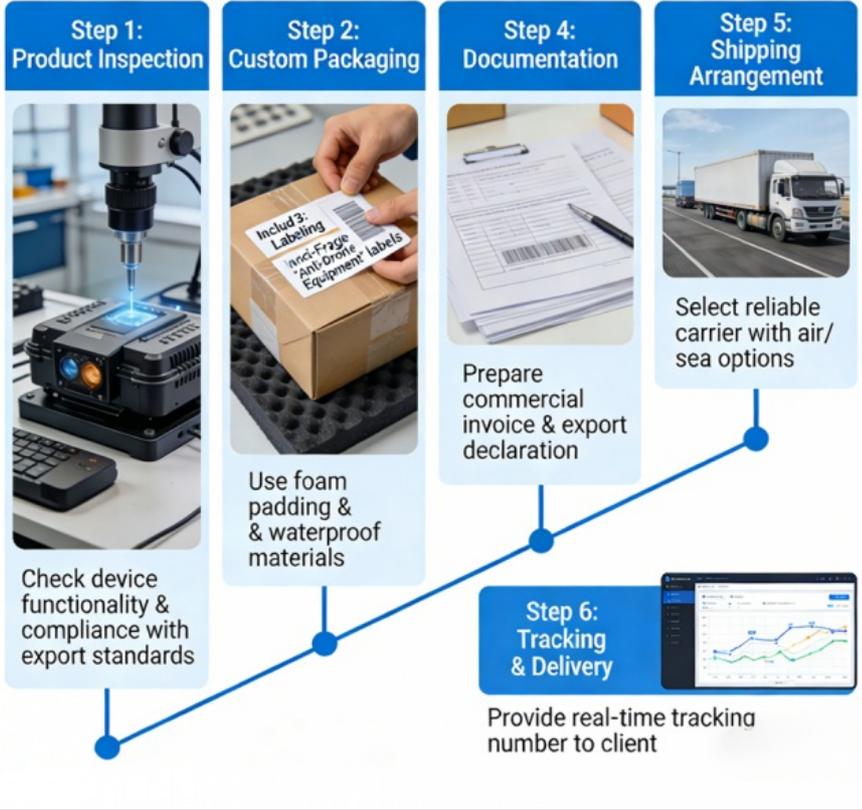
- Europe: UK, Spain
- Middle East
- South America

FIELD ENGINEERS:

Localized On-Site
Technical Support
(Tailored Customer
Solutions)

Packaging & Shipping Specifications

Packaging & shipping specifications





Manufacturing Facilities



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⁺
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⁺
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







Border Security



Public Safety



Special Operations Support



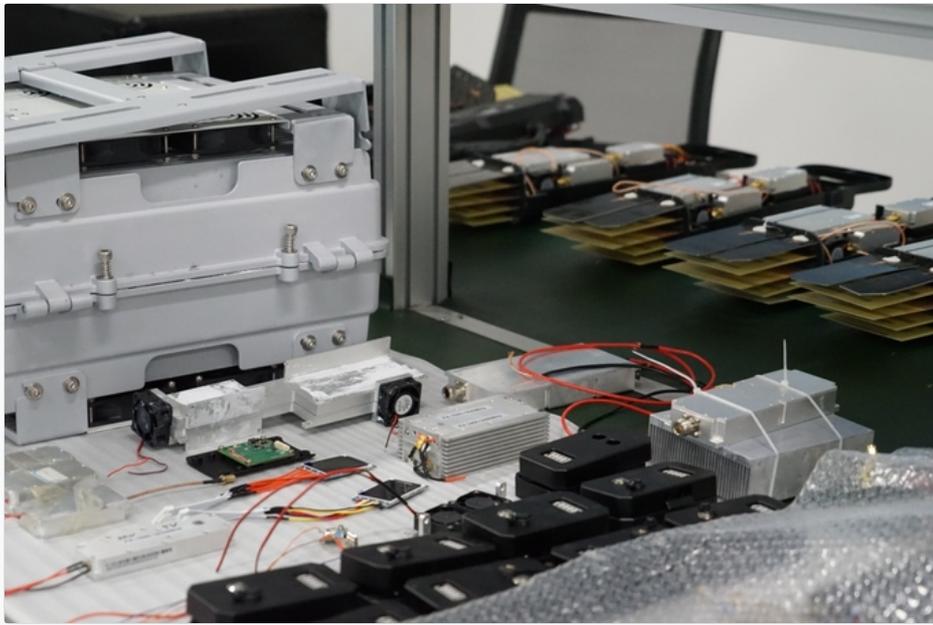
Military and National Defense



Energy Facility Protection



Security for Key Events





Customer Service & Support

24-hour after-sales service support

Online technical support for usage or quality issues with comprehensive problem diagnosis

3-month return policy from dispatch date for undamaged products with full refund or product modification options

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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