Fixed UAV RID Detection Equipment 400MHz-6GHz Wide Band Drone Spectrum Detector 3km Open-Area Detection Range 30+ Concurrent Drones Monitoring IP66 Anti-Interference UAV Remote ID Receiver

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: KZ-40
- Minimum Order Quantity: 1
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: TT,LC
- Supply Ability: 1000units per month

Product Specification

- Detection Coverage: 400MHz-6GHz
- Device Power Consumption: ≤10W
- Signal Capture Sensitivity: ≤-102dBm (2.4GHz Band), ≤-100dBm (5.8GHz Band)
- Detection Range: ≥3 Km (open Area)
- Resolution Distance: RID≥2 Km; DID≥3 Km (open Area)
- Detection Zone: 360° Horizontal And 90° Vertical
- Levels Of Protection: IP66
- Detection Count: ≥30 Units (fixed Type)
- Working Temperature: -20°C To 65°C (Portable)
- Probe Response Time: ≤1 Second (RID Signal Parsing), ≤2 Seconds (DID Reading)
- Highlight: **Fixed UAV RID detection equipment 400MHz-6GHz**, **Drone spectrum detector 3km range**, **UAV remote ID receiver IP66**

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Product Description

KZ-40 Fixed UAV RID Detection Equipment

1 Product Introduction

KZ-40 all-in-one UAV RID spectrum-sensing terminal delivers complete passive receiving front-end hardware for civil airspace supervision projects. It integrates spectrum scanning and RID broadcast-message dual-mode sensing capabilities. New UAV RID protocol support can be added purely through firmware upgrade with no hardware replacement required. Multiple installation options including rooftop and pole-mount adapt varied engineering-site conditions. The turn-key package contains antennas, network accessories and operation documents to realize fast on-site commissioning for end-to-end civil low-altitude airspace perception projects.

Capable of detecting up to 30 drones concurrently within ≥3km open-sky coverage with 360° horizontal & 90° vertical field of view, the unit completes RID signal parsing within ≤200ms. It decodes comprehensive drone metadata including GNSS position (1-meter display precision), altitude, speed, serial number, take-off & return-home points and real-time flight trajectories.

Supporting Ethernet & 4G/5G remote backhaul over MQTT/HTTPS protocols, the KZ-40 allows OTA remote device configuration and firmware upgrade. Boasting IP66 ingress protection and low power consumption ≤10W, this rugged detector fits 24/7 continuous monitoring for airports, government perimeters, power infrastructure, large-event venues and oil-gas facilities. Compatible with mainstream UAV RID broadcast protocols, expandable via software update without hardware modification.

重庆妙亦堂科技
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2 Specification

ORDER NUMBER	NAME	PERFORMANCE INDEX	REMARKS
1	Detection coverage	400MHz-6GHz	apolegamy
2	Signal capture sensitivity	≤-102dBm (2.4GHz band), ≤-100dBm (5.8GHz band)	
3	Detection range	≥3 km (open area)	
4	Resolution distance	RID≥2 km; DID≥3 km (open area)	DID apolegamy
5	detection zone	360° horizontal and 90° vertical	

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6	Detection display	Drone distance, flight altitude, speed, position (including latitude and longitude with precision to 1 meter), aircraft model, aircraft SN, aircraft takeoff point, aircraft return point, and real-time aircraft trajectory, etc.	
7	positioning accuracy	Broadcast accuracy consistent with UAV RID (horizontal ≤10m, vertical ≤5m, open environment)	
8	Detection count	≥30 units (fixed type)	
9	Parsing delay	≤200ms (from signal reception to information output)	
10	Data feedback method	Supports Ethernet (10/100/1000Mbps) and 4G/5G (long-distance backhaul)	
11	working temperature	-20°C to 65°C (Portable)	
12	size	indeterminate	
13	probe response time	≤1 second (RID signal parsing), ≤2 seconds (DID reading)	
14	power supply mode	Battery-powered or mains power	
15	Device power consumption	≤10W	
16	weight of equipment	indeterminate	
17	levels of protection	IP66	

3 After-Sales service

Lifetime free model library upgrades, profesdional 24/7online service, customizable colors and languages.

4 Certification Certificate

5 Company profile

Chongqing Miao Yi Tang Technology Co., Ltd. is a cutting-edge enterprise forged through collaboration between the Internet of Things Research and Development Center of the Chinese Academy of Sciences, Sichuan University Zhisheng Software Co., Ltd. (002253), and a dedicated founding team backed by a $12 million investment.

6 Partnership Portfolio

Our products are designed for a variety of public safety scenarios and have long provided customized product services to the military and public safety departments, earning an excellent reputation in practical operations.

7 Paking and Delivery

Supports various logistics methods including shipping, air freight, water transport, and express delivery, covering logistics in 90% of the global regions.

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