

The X-band Long-range Quad-cell Radar For All-weather Detection And Early Warning Of low Small Slow Targets

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DD-R39
- 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

- TAS Tracking Target Count: ≥ 24
- Minimum Detection Altitude: $\leq 10\text{m}$
- Velocity Range: $1\text{m/s} \sim 100\text{m/s}$
- Resolution Ratio: Distance: $\leq 15\text{m}$, Azimuth: $\leq 6^\circ$, Elevation: $\leq 4^\circ$
- Operating Temperature Range: $-40 \sim +60$
- Size: $\leq 1100\text{mm} \times 1100\text{mm} \times 750\text{mm}$
- Power Dissipation: $\leq 5500\text{W}$
- Supply Electricity: AC220V/DC24V
- Levels Of Protection: IP66
- Joggle: RJ45 Network Port
- Highlight: **X-band quad-cell radar,
long-range anti UAV radar,
all-weather small target detection radar**

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Product Description

The DD-R39 X-band long-range quad-cell radar

1, Product Overview

The DD-R39 X-band long-range quad-cell radar adopts a fully solid-state, fully coherent, and pulse Doppler system. This enables all-weather detection and early warning of "low, small, slow" targets. By leveraging machine learning and AI recognition, which are based on "micro-Doppler signatures" and "flight path features", the device attains ultra-low false alarm rates. Moreover, it effectively detects and classifies a wide variety of targets, including drones, light aircraft, helicopters, powered triplanes, airships, and airborne balloons.

2, Function

The product features comprehensive target monitoring and analysis capabilities. It allows for target positioning, trajectory display, and playback functions on the map, presenting key parameters such as target distance, azimuth, elevation, and speed in real time. The system is integrated with built-in data recording and storage functions, which can fully save target trajectory data and radar status information, and support subsequent data playback and query operations.

Leveraging AI recognition technology based on "micro-Doppler features" and "track features," the product showcases powerful target classification and identification capabilities, accurately identifying various target types, including drones, birds, people, and vehicles. The system incorporates advanced machine learning technology, enabling it to adapt autonomously to the current environment and start operation directly without the need for manual parameter adjustment.

To ensure reliable all-weather operation, the product is equipped with cloud and rain noise suppression functions, effectively eliminating interference under adverse weather conditions. The software interface provides flexible parameter configuration options, enabling users to adjust settings such as elevation coverage, target update rate, and monitoring range according to their requirements. In addition, the product has automatic compensation functions for independent positioning, orientation, elevation, and roll angles, ensuring measurement accuracy. During system operation, users can comprehensively monitor the equipment's working conditions through real-time status monitoring functions, ensuring the stable and efficient operation of the system.



3, qualification

order number	parameter	metric
1	frequency range	X frequency range
2	detection range	$\geq 10\text{Km}(\text{RCS}:0.01\text{m}^2, \text{unmanned aerial vehicle})$ $\geq 20\text{Km}(\text{RCS}:0.3\text{m}^2, \text{unmanned aerial vehicle})$
3	fade zone	$\leq 150\text{m}$
4	work pattern	2D Phased Array
5	hunting zone	Azimuth: $0^\circ\sim 360^\circ$, elevation: $0^\circ\sim 60^\circ$ (configure according to task requirements)
6	trace function	TAS feature available
7	TAS tracking target count	≥ 24

8	Minimum detection altitude	$\leq 10\text{m}$
9	velocity range	1m/s~100m/s
10	Target update rate	TWS: $\leq 5\text{s}$ (30° pitch coverage, 15km range) TAS: $\leq 0.5\text{s}$ (default)
11	resolution ratio	Distance: $\leq 15\text{m}$, azimuth: $\leq 6^\circ$, elevation: $\leq 4^\circ$
12	Search precision (RMS)	Distance: $\leq 10\text{m}$, azimuth: $\leq 0.5^\circ$, elevation: $\leq 0.4^\circ$
13	Tracking accuracy (RMS)	Distance: $\leq 10\text{m}$, azimuth: $\leq 0.3^\circ$, pitch: $\leq 0.3^\circ$
14	joggle	RJ45 network port
15	target capacity	≥ 500 batches
16	weight	$\leq 125\text{Kg}$ (net weight of the equipment, excluding power supply/cable)
17	supply electricity	AC220V/DC24V
18	power dissipation	$\leq 5500\text{W}$
19	size	$\leq 1100\text{mm} \times 1100\text{mm} \times 750\text{mm}$
20	operating temperature range	-40 +60
21	levels of protection	IP66

4, Application Scenarios



5, Certification Certificate



6, Company profile

Chongqing Miao Yitang Technology Co., Ltd. is a specialized company engaged in anti-drone and unmanned intelligent defense management. With the technical support from the AI Internet of Things Research Institute of the Chinese Academy of Sciences and collaborations with multiple intelligent AI companies, the company has established research laboratories for AI unmanned field products, accumulating a variety of technical patents.

The company's products are widely applied to unmanned automatic management solutions for various defense and perimeter areas, including AI anti-drone systems and AI unmanned vehicle patrol systems. These systems integrate with multiple technologies such as optoelectronics, radar, vibration, thermal imaging, facial recognition, and radio frequency management, truly achieving a 24-hour uninterrupted anti-drone defense and ground perimeter defense warning system. This allows for cost savings for clients, reduction in human resource allocation, and

ensures the safety of clients' lives and property. The outstanding security system has won the company an excellent reputation and created higher value for its partners.



7, Customer Service

- 1). We offer 24 hours service after sales
- 2). If there are any usage or quality issues with the product, we provide online technical support to diagnose the cause of the problem.
- 3). Should you find the products unsatisfactory, kindly return it to us within a period of 3 months from the date of dispatch. Upon receipt and inspection, should the products be found to be free from any damage attributable to human factors, a full refund will be granted. Alternatively, we can engage in discussions to amend the product and subsequently reship the product to you.

A graphic of a clipboard with a silver clip at the top. The clipboard has a white sheet of paper with the following content:

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

Below the text, there are logos for shipping companies: FedEx, TNT, UPS, and DHL. To the right, there is an illustration of a hand holding a smartphone with various payment logos (VISA, AMEX, T/T, DISCOVER, WU, Apple Pay, G Pay, and others) floating around it. Below the shipping logos, there is an illustration of a cargo ship, a truck, and a van.



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