The Perfect Anti UAV Radar For All-Weather Detection And Early Warning With Flexible Configurations

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DD-R26
- 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:≥6
- Minimum Detection Altitude:≤10m
- Velocity Range: 1m/s~100m/s
- Resolution Ratio: Distance: ≤15m, Azimuth: ≤6°, Elevation: ≤12°
- Operating Temperature Range: -40 +70
- Size: ≤ 195mm*316mm* 165mm
- Power Dissipation: ≤ 200W
- Supply Electricity: AC220V/DC24V
- Levels Of Protection: IP66
- Joggle: RJ45 Network Port
- Highlight: **all-weather anti UAV radar**, **flexible configuration UAV radar**, **early warning anti UAV radar**

Product Description

The DD-R26 medium-range single-element X-band radar

1, Product Overview

The DD-R26 medium-range single-element X-band radar is equipped with a fully solid-state, fully coherent, and pulse Doppler system. This system enables all-weather detection and early warning capabilities for "low, small, slow" targets. Leveraging machine learning and AI recognition technologies based on "micro-Doppler signatures" and "flight path features," the radar can effectively detect and classify a variety of targets. These targets include drones, light aircraft, helicopters, powered triplanes, airships, and airborne balloons, while maintaining an extremely low false alarm rate. The radar is installed with a two-dimensional phase scanning system. This system can be extended to configurations such as "azimuth mechanical scanning + elevation phase scanning" or multi-element arrays to meet diverse application requirements.

2, Function

The product has comprehensive target monitoring and analysis capabilities. It precisely locates targets on the map, shows their trajectories, and has a playback function. It presents real - time key parameters like distance, azimuth, elevation, and speed.

The system has built - in data recording and storage, saving target trajectory and radar status data for playback, analysis, and query.

Using AI recognition based on "micro - Doppler" and "track features", it can classify and identify various target types, including drones, birds, people, and vehicles.

Integrating advanced machine learning, it can autonomously adapt to the environment, starting without manual parameter adjustment.

Equipped with cloud and rain noise suppression, it can operate reliably in all weather.

The software interface offers flexible parameter configuration, like elevation coverage, target update rate, and monitoring range.

It has automatic compensation functions for positioning, orientation, elevation, and roll angles to ensure measurement accuracy.

During operation, real - time status monitoring allows users to detect issues and ensure stable system operation.

3, qualification

order number	parameter	metric
1	frequency range	X frequency range
2	detection range	≥ 3Km(RCS:0.01m^2, unmanned aerial vehicle) ≥ 6Km(RCS:0.3 m^2, unmanned aerial vehicle)
3	fade zone	≤100m
4	work pattern	2D Phased Array
5	hunting zone	Azimuth: 0°~360°, elevation: 0°~80° (configure according to task requirements)
6	trace function	TAS feature available
7	TAS tracking target count	≥6
8	Minimum detection altitude	≤ 10m
9	velocity range	1m/s~100m/s
10	Target update rate	TWS: ≤ 3.5 seconds (30° pitch coverage, 5km range) TAS: ≤ 0.5s (default)
11	resolution ratio	Distance: ≤15m, azimuth: ≤6°, elevation: ≤12°
12	Search precision (RMS)	Distance: ≤10m, azimuth: ≤0.5°, elevation: ≤1°
13	Tracking accuracy (RMS)	Distance: ≤10m, azimuth: ≤0.4°, elevation: ≤0.6°
14	joggle	RJ45 network port
15	target capacity	≥500 batches
16	weight	≤ 8.5Kg (net weight of the device, excluding power supply/cable)
17	supply electricity	AC220V/DC24V
18	power dissipation	≤ 200W
19	size	≤ 195mm*316mm* 165mm
20	operating temperature range	-40 + 70
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.

Chongqing Miao Yi Tang Technology Co., Ltd.

+8613101235550 gary@chinaantidrone.com chinaantidrone.com

www.chinaantidrone.com