CNAS、CMA、CAL、ILAC-MRA

Pricing is negotiable based on order quantity

X Band 10km Anti Drone System Low-Altitude Surveillance Radar With Anti Drone System For Effective Detection And Tracking Of Low-Flying Targets

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:

重庆妙亦堂科技

- Delivery Time:
- Payment Terms:
- Supply Ability:



Product Specification

- Detection Distance:
- Operating Temperature:
- Protection Level:
- Power Dissipation:
- Highlight:

≥10km (RCS=0.01 M²)

-40 +55

China

MYT

DD-R10

TT, LC

10 work days

50 units per month

1

IP66 (host: IP67)

- ≤400W X band Anti Drone System,
 - X band Anti Drone System, Low-Altitude Surveillance Radar, 10km X band Anti Drone System



More Images



DD-R10 low-altitude surveillance radar

1, Product Introduction

The DD-R10 series low-altitude surveillance radar is a special radar system for monitoring low-altitude targets. It can effectively detect and track low-flying aircraft, unmanned aerial vehicles, birds, cruise missiles and other targets, while taking into account ground and surface targets. The radar integrates digital beamforming (DBF) technology, with low equivalent isotropic radiated power, high measurement accuracy, strong multi-target processing, excellent anti-interference ability, and stable operation in complex environments. It has a wide range of applications, which can provide important support for air traffic control, key site protection, low-altitude economy, airport bird exploration, battlefield 'anti-none', border and coastal defense, etc., and can provide a solid guarantee for low-altitude safety and order.



2, Product characteristics

1). Large coverage, great value for the price

Azimuth mechanical scanning and elevation digital beamforming (DBF) technology are used to achieve a wide range of coverage under the premise of taking into account economy: azimuth 360°, pitch up to +65°.

2) The data refresh rate is high, and the maneuvering target detection ability is strong

Using DBF technology, the general 6s refresh rate of traditional low-altitude radar is increased to 1s/2s/3s, which can effectively track maneuvering targets, and the tracking target speed is increased to 150m/s.

3) The detection probability is high and the false alarm probability is low

With adaptive clutter suppression technology, the false alarm rate is greatly reduced, and ground clutter, sea clutter and meteorological clutter are effectively suppressed, which greatly expands the radar application scenarios.

4) Portable and easy to operate

Compared with pulsed radar, the continuous wave system has a low transmission power, and there is no need for a high-power pulse transmission circuit, which greatly reduces the power consumption and reduces the size and weight of the equipment. It can be carried and set up by a single person, which is convenient for users to use; At the same time, the human-machine interface is intuitive and concise, and the configuration is simple, which effectively reduces the user's learning and use cost of radar.

5) Small near-distance blind zone and can detect many targets simultaneously

The continuous wave radar transmits uninterrupted signals, and there is no problem of large short-range blind spots of pulsed radar. In the vicinity of the airport, real-time and continuous monitoring of birds and small UAVs close to the runway can be realized, and the dynamic changes of the target can be accurately captured. It can automatically track more than 500 batches of targets at the same time and output high-precision position information.

6) Low interception rate

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Compared with pulsed radar, continuous wave radar continuously transmits signals, has low transmission power, uniform spectrum distribution, and no obvious pulse spikes like pulsed radar, and is not easy to be identified by enemy interceptors in a complex electromagnetic environment, and the signal is highly concealed

7) Good Tracking Performance

The radar supports a maximum space scan rate of up to 1Hz, and uses advanced tracking algorithms to realize real-time tracking of various strong maneuvering targets, providing users with accurate and intuitive target information.

8) Good System Expandability and Integration

The friendly data interface and user interface can be integrated with other sensing devices very easily to form a 'Anti-drone' system.

3, Product Specifications



| | Radar overlay slices | | | |
|--------------|----------------------|------------------|--|--------------------------------|
| No | | | Items | Index |
| | | | Qualification | |
| 1 | | 0 | perating frequency band | X |
| | | | Pitch | -5° 60° |
| | - | | Azimuth | 360° |
| 2 | Space | | Range | 20km |
| | Covera | ge – | Blind spots | 50m |
| | | | Height | 3000m |
| 1 | | | Small rotary-wing UAVs (RCS=0.01 m ²) | ≥10km |
| | Detection | on Me | dium-sized fixed-wing UAVs (RCS=1 m ²) | ≥20km |
| 3 | distanc | e 🗖 | Personnel | ≥15km |
| | | | Helicopters/vehicles | ≥20km |
| + | | | Distance | ≤5m(RMS) |
| 4 | Measu | re 🔶 | Azimuth | ≤0.3°(RMS) |
| | Accura | cy 📙 | Pitch | ≤0.3°(RMS) |
| ╈ | | I | | 20rpm(3s) |
| 5 | Ant | | enna Rotation Speed | 30rpm(2s) |
| | | | | 60rpm (1 s) (upgradable) |
| 6 | | | Max Tracked Targets | >500 |
| 7 | | | Tracing Velocity | 1m/s 150m/s |
| · | | | Power & Interfaces | |
| | | | | DC36~52V (with AC220V-DC48V |
| 1 | Power Supply | | Power Supply | adapter) |
| 2 | | Communication | | Gigabit Ethernet aviation plug |
| 3 | | | Power Dissipation | ≤400W |
| | | | Environmental Suitability | <u></u> |
| 1 | | (| Derating Temperature | -40 +55 |
| 2 | | | Humidity | ≯90% |
| 3 | | Protection Level | | IP66 (host: IP67) |
| - | | | Weight & Size | |
| Т | | | Host | 25 |
| | weight (kg) | monomer | er rotating platform | 27 |
| | | | tripod | 20 |
| 1 | | packing | Host | 45 |
| | | | | |
| | | | rotating platform | 50 (with accessories) |
| \downarrow | | | tripod | 23 |
| | size (mm) | monomer | Host | 815*650*93 |
| | | | r rotating platform | 600*500*450 |
| 2 | | | tripod | 1100*450*450 |
| - | | packing | Host | 970*780*250 |
| | | | rotating platform | 600*520*470 |
| | | | tripod | 1100*450*450 |

4, Typical application



Rotorcraft UAV detection and tracking



Helicopter detection and tracking



Raylink (visible light/infrared/radar)



Foreign trade vehicle anti-missile project





Birds are spotted at the airport

5, Certification Certificate





8, 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.



6, 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.



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