

Low Altitude Security Radar For Advanced Drone Detection And Target Indication In Prisons Exhibitions And Military Bases

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DDR-LC2
- 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

- Operating Frequency Band: C
- Range: 2.1km
- Effective Detection Range: 100m 1.5km UAV; Drone
- Azimuth Coverage : 360°
- Working Temperature: -40 ~ +55
- Weight: ≤15kg
- Highlight: **low altitude security radar for drone detection ,
prison exhibition military base security radar ,
drone detection radar with target indication**

Product Description

DDR-LC2 C Band radar

1, Product Overview

The DDR - LC2 mainly consists of three key parts: a radar array, a mechanical turntable, and a power adapter. The radar array, the core sensor, emits and receives electromagnetic waves to detect airspace objects. The turntable rotates the radar array to widen its view, and the power adapter provides stable power for the device's operation.

The DDR - LC2 is used for crucial tasks like detecting, surveilling, and indicating micro and small civilian drones. It's deployed in important areas such as prisons (to maintain security and privacy), exhibitions (to ensure public safety and event integrity), and military bases (for strict airspace control).

A notable feature is its ability to accurately give detailed target trajectory info, including drone flight direction, distance from the DDR - LC2, altitude, and speed.

2, Specification

Working system	Phased array system (azimuth scanning+elevation scanning)/pulse Doppler
Working band	C Band
Range of Radar	2. 1km
Effective detection range	100m 1.5km(UAV; Drone)
Azimuth coverage	360°
Elevation coverage	≥30°
Detection speed	1.8km/h 108km/h
Azimuth accuracy	≤1.0 °
Pitch accuracy	≤1.0 °
Distance accuracy	≤10m
Data rate	≥0.2Hz
Data interface	RJ45/1 1ch Ethernet 10/100M port
Input power	≤100W(power dissition) AC200-AC240(Input power)
Working temperature	-40 ~ +55
Weight	≤15kg

3, Features

The DDR - YK8 radar system stands out with its remarkable 360° omni - directional detection capabilities. This all - encompassing detection feature allows it to have a full - circle view, leaving no blind spots in its monitoring area. It is not just about detecting; it also enables real - time target tracking. As soon as a target enters its detection range, the system can precisely and promptly follow the target's movement. Simultaneously, it outputs highly precise three - coordinate information, which is crucial for accurately determining the target's position in space, providing detailed data on the target's location in terms of longitude, latitude, and altitude.

One of the most notable aspects of this radar system is its strong environmental adaptability. It is designed to function continuously around the clock, operating 24 hours a day, 7 days a week. This means it can maintain its performance regardless of the time of day or night. Moreover, it can endure harsh conditions such as the darkness of night, the downpour of rain, the flurry of snow, the thick haze, and the dusty environments. These are challenging conditions that would disrupt the operation of many other radar systems, but the DDR - YK8 perseveres.

The DDR - YK8 radar system also supports multi - object detection. It has an impressive capacity to monitor hundreds of target batches simultaneously. This high - density monitoring ability makes it suitable for scenarios where there are numerous targets in the area, such as in busy airspace or crowded maritime regions. In addition, its setup is straightforward. Even for operators with relatively basic technical knowledge, they can install and configure the system with ease. Along with this simplicity, it offers high flexibility. It can be adjusted and adapted to different operational requirements and scenarios, whether it's for long - range monitoring or short - range, high - precision detection.

The system makes use of advanced DBF (Digital Beam Forming) technology. By leveraging this technology, it enhances its anti - interference capabilities through multi - beam transmission technology. In complex electromagnetic environments where there may be a lot of electromagnetic noise and interference from other sources, the multi - beam transmission can precisely direct the radar beams, minimizing the impact of interference. This ensures that the DDR - YK8 radar system can maintain reliable performance, accurately detecting and tracking targets even in the most challenging electromagnetic surroundings.



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.

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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