

## C Band Low Altitude Security Radar For Micro/Small Civilian Drone Detection 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: **C Band drone detection radar, low altitude security radar for prisons, small civilian drone radar system**

## Product Description

### DDR-LC2 C Band radar

#### 1, Product Overview

The DDR - LC2 is mainly constructed with three key components: one radar array, which serves as the core sensing element; one mechanical turntable, enabling the device to rotate and scan in different directions; and one power adapter, responsible for supplying the necessary electrical energy.

This device is specifically utilized for multiple important functions. It is used for the detection of micro/small civilian drones, which are becoming increasingly common in various airspaces. Surveillance is another crucial task, closely monitoring the activities of these drones. Additionally, it provides target indication, precisely pointing out the presence of potential drone threats.

The areas where the DDR - LC2 is deployed are of high significance. These include prisons, where the prevention of unauthorized drone access is essential to maintain security and prevent potential smuggling or surveillance activities. Exhibitions, which often host valuable items and large crowds, also require protection from any unwanted drone presence. Military bases, being highly sensitive areas, rely on the DDR - LC2 to safeguard against potential drone - related espionage or attacks.

One of the most remarkable features of the DDR - LC2 is its ability to accurately supply target trajectory information. This includes details such as the direction in which the drone is flying, the distance it is from the device, its altitude above the ground, and the speed at which it is moving. All these data points are crucial for a comprehensive understanding of the drone's movement and for taking appropriate counter - measures.

#### 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 dissipation) AC200-AC240(Input power)                       |
| Working temperature       | -40 ~ +55                                                               |
| Weight                    | ≤15kg                                                                   |

#### 3, Features

The product is designed to offer remarkable 360° omnidirectional detection capabilities. This unique feature allows it to track targets in real - time. As it does so, it also outputs the three - coordinate information of these targets simultaneously. This real - time tracking and data output are crucial for various applications where precise target location and movement monitoring are essential.

One of the outstanding characteristics of this product is its robust environmental adaptability. It has the ability to operate around the clock, 24 hours a day, 7 days a week. This makes it highly reliable in a wide range of harsh conditions. Whether it's the darkness of night, the downpour of rain, the flurry of snow, the thick haze, or the dusty environments, the product can function dependably. This all - weather and all - time operation ensures continuous service without being significantly affected by external environmental factors.

The system also supports multi - object detection. It has an impressive capacity to simultaneously monitor up to hundreds of target batches. This multi - target monitoring function is highly beneficial in scenarios where there are numerous objects that need to be tracked at the same time. Moreover, the system is user - friendly in terms of setup. It can be easily configured, and it offers high flexibility, which means it can be adjusted according to different requirements and usage scenarios.

In addition, the product is equipped with DBF (Digital Beam Forming) technology. This technology enhances its anti - interference capabilities through multi - beam transmission technology. In complex electromagnetic environments, where interference can disrupt normal operations, this technology ensures that the product maintains stable performance. It can effectively filter out interference signals and continue to function accurately, providing reliable data and operation even in the face of electromagnetic challenges.



#### 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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