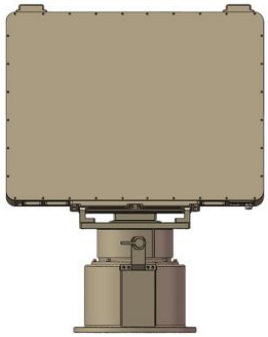
Ku Operating Frequency Band Low-altitude Surveillance Radar

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DDR-BK2
- 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: Ku
- Range: 3.5km
- Max Tracked Targets: ≥ 100
- Tracing Velocity : 1m/S 100m/S
- Ingress Protection: IP66 (Host IP67)
- Operating Temperature: -40 +55
- Highlight: **Ku band surveillance radar**, **low altitude security radar**, **Ku frequency band radar**

Product Description

DDR-BK2 low-altitude surveillance radar

1, Product Overview

DDR-BK2 low-altitude surveillance radar is a high-performance low-altitude target monitoring system, which has outstanding performance in the field of low-altitude detection with advanced technology architecture and excellent performance. It can accurately identify and continuously track low-altitude aircraft, unmanned aerial vehicles, birds, cruise missiles and other targets, while taking into account the monitoring of ground and surface targets, providing key data for low-altitude situational awareness.

The radar is deeply fused with DBF technology, which has low equivalent isotropic radiated power, achieving high measurement accuracy and powerful multi-target processing capabilities. With excellent anti-interference performance, it can maintain stable and reliable operation even in complex electromagnetic and meteorological environments.

With these advantages the radars are widely used in air traffic control, key ground protection, low-altitude economy, airport bird exploration, battlefield "anti-no", border defense and coastal defense and other fields. It is a key technical equipment to protect the safety of national airspace and maintain low-altitude order.

2, Specification

No. Number	Items			Index
Parameter				
1	Operating Frequency Band			Ku
2	Space Coverage	Pitch		-5° 60°
		Azimuth		360°
		Range		3.5km
		Blind Spots		50m
		Height		600m
3	Detection Power	Small rotary-wing UAVs (RCS=0.01 m²)		≥1.5km
		Medium-sized fixed-wing UAVs (RCS=1 m²)		≥3.5km
		Personnel		≥2.5km
		Helicopters/vehicles Vehicles		≥3.5km
4	Measurement Accuracy	Distance		≤5m(RMS)
		Azimuth Angle		≤0.4°(RMS)
		Pitch Angle		≤0.4°(RMS)
5	Antenna Rotation Speed			20rpm(3s)
				30rpm(2s)
				60rpm (1s) (Upgradable)
6	Max Tracked Targets			≥ 100
7	Tracing Velocity			1m/S 100m/S
Power & Interfaces				
1	Power Supply(With AC220V-DC24V Adapter)			DC18 28V
2	Communication			Gigabit Ethernet Aviation Plug
3	Power Consumption			≤120W
Environmental Suitability				
1	Operating Temperature			-40 +55
2	Operating Humidity			≯90%
3	Ingress Protection			IP66 (Host IP67)
Weight Dimensions				
	Weight	Monomer	Host	9
			Turntable	13.5
			Tripod	13

1	(Kg)	Packing	Host + Turntable	42(with accessories) Accessories Such As Adapters)
			Tripod	15
2	Dimensions(mm)	Monomer	Host	440*355*90
			Turntable	400*228*216
			Tripod	1050*230*230
		Packing	Host + Turntable	580*460*220
			Tripod	1140*290*290

3, Features

Wide Coverage and high-cost performance: Adopt azimuth mechanical scanning and tilt DBF technology to achieve a wide range of 360° and 65° pitch, taking into account economy.

High refresh rate and strong maneuver detection: Using DBF technology, the refresh rate of low-altitude radar is increased to 1s/2s/3s, and the tracking speed is up to 100m/s, which can efficiently track maneuvering targets.

High detection and low false alarm: Relying on the adaptive clutter suppression technology, clutter can be eliminated in real time, reducing the false alarm rate, and adapting to a variety of complex scenarios.

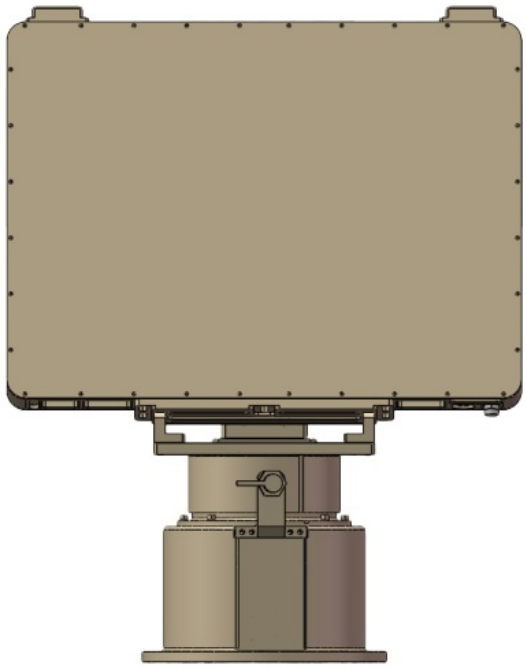
Portable and easy to operate: continuous wave system, Low Power Consumption, Compact Size, Light Weight, support single carrying and rapid erection, with simple man-machine interface, reduce the cost of use.

Small short-range blind spot and multi-target detection: Continuous-wave radar signal is uninterrupted, solving the problem of short-range blind spot, tracking more than 100 batches of targets at the same time, and outputting high-precision information.

Low interception rate: The peak power of continuous wave radar is low, the concealment is strong, it is not easy to be intercepted by the enemy, and it is suitable for complex electromagnetic environment.

Excellent tracking effect: It supports a 1Hz spatial scanning rate and combines advanced tracking algorithms to achieve real-time and accurate tracking of highly maneuverable targets.

Good system integration: With friendly data interface and user interface, it can easily integrate other sensing devices to build an "anti-none" system.



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.

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