

Long Range Detection Anti UAV Radar with Extreme Multi-Target Recognition and AI Recognition Technology

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DD-R27
- 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

- Frequency Band: $\leq 785\text{mm} \times 340\text{mm} \times 220\text{mm}$
- Detection Range: -40 +60
- Blind Zone: IP66
- Search Coverage: Phased Scanning Azimuth - $45^\circ \sim 45^\circ$ Elevation $0^\circ \sim 30^\circ$ Configurable Per Mission Requirements
- Tracking Capability: Mechanical Scanning Tracking Function/Phased Scanning TAS Function
- Number Of TAS-tracked Targets: ≥ 6
- Minimum Detection Altitude: $\leq 10\text{m}$
- Speed Range: $1\text{m/s} \sim 100\text{m/s}$
- Target Update Rate: Mechanical Scanning $\leq 4.5\text{s}$ /Phased Scanning $\leq 3.5\text{s}$ (Elevation Coverage 30°)
- Resolution: Distance 15m Azimuth 6° Elevation 4°
- Search Accuracy (RMS): Distance 10m Azimuth 0.4° Elevation 0.4°
- Tracking Accuracy (RMS): Distance 10m Azimuth 0.2° Elevation 0.2°



More Images



for more products please visit us on chinaantidrone.com

Product Description

DD-R27 X-band Long-Range Phased Array Radar System

The DD-R27 X-band long-range phased array radar is an all-solid-state, fully coherent, pulse Doppler system designed for all-weather effective detection and early warning of "low, slow and small" (LSS) targets. Equipped with advanced machine learning technology and AI recognition algorithms based on micro-Doppler characteristics and track features, this device ensures accurate detection and classified identification of various LSS targets while maintaining an ultra-low false alarm rate.



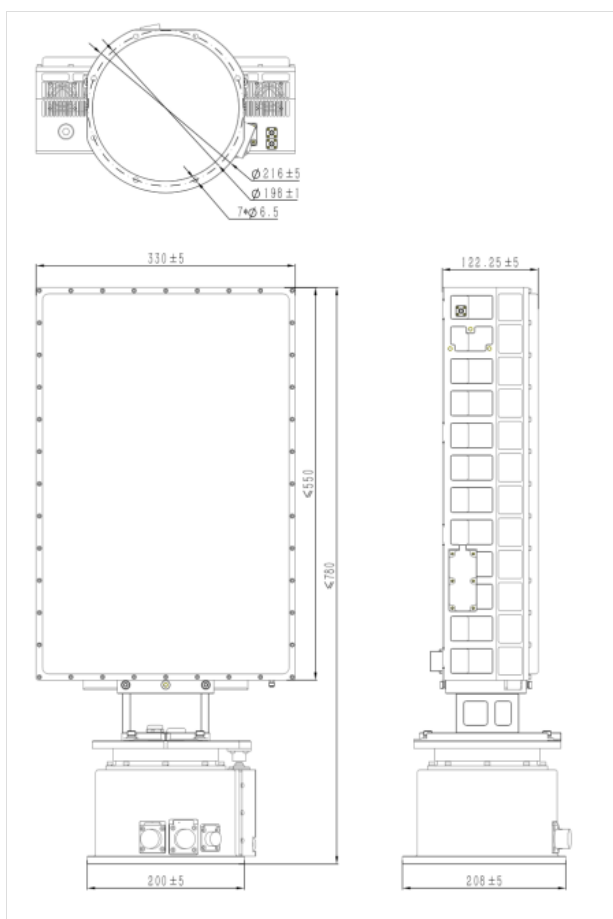
Key Functions & Capabilities

- Target positioning, trajectory display and replay functions on maps with comprehensive target data display
- Recording and storage of target point track data and radar status data with replay and query functionality
- AI recognition technology using micro-Doppler characteristics and track features for target classification
- Machine learning technology enabling adaptive environment adaptation with immediate operational readiness
- Cloud and rain clutter suppression for all-weather operation capability
- Software-configurable parameters including elevation coverage, target update rate, and range scale
- Autonomous positioning and orientation with automatic compensation for elevation and roll angles
- Real-time operating status monitoring function

Product Qualifications

Num	Parameter	Specific Value
1	Working system	MIMO Phased Array Micro-Doppler
2	Antenna Quantity	384 Microstrip Antennas
3	Working band	X Band
4	Radar Detection Range	10 km @ RCS=0.01 m ²
5	Transmit-Receive Channel	384
6	Azimuth coverage	360°
7	Elevation coverage	0~±80°
8	Detection speed	1 m/s~100 m/s
9	Azimuth accuracy	≤0.4°
10	Pitch accuracy	≤0.5°

Application Scenarios





Certification & Compliance



Company Profile

Affiliated with the Institute of Internet of Things (IoT) under the Chinese Academy of Sciences, our company specializes in low-altitude security research with strong technological expertise. Our R&D team includes over 100 members and more than 120 test engineers, featuring 1 academician of the Chinese Academy of Sciences, 17 Ph.D. holders, and 48 master's degree holders.

We lead the industry in low-altitude radar, spectrum-based radio detection equipment, photoelectric camera tracking devices, and integrated defense systems. Our radar technology focuses on advanced clutter algorithms for signal processing to filter out weather, birds, and low-altitude clutter impacts.

Key technological innovations include MIMO microstrip antenna arrays for drone detection, traditional waveguide slot antennas with DBF recognition, independently developed ultra-wideband signal sources and power amplifiers, and leading SDR broadband technology covering 70MHz to 8000MHz.



CAS INSTITUTE OF IoT (INTERNET OF THINGS) AFFILIATED ENTERPRISE

★ FOCUS: LOW-ALTITUDE SECURITY RESEARCH



OUR TEAM

- R&D Team:
 >100 Members
- Test Engineers:
 >120
- CAS Academician
 1
- PhD Holders:
 17
- Master's Degree
 Holders: 48



CORE TECHNOLOGIES

—— RADAR SYSTEMS ——

- MIMO Microstrip Antenna Array (Drone Detection)
- Waveguide Slot Antennas + DBF (Digital Beamforming)
- Clutter Filter Algorithms (filters weather/birds/low-altitude clutter)

—— SPECTRUM TECHNOLOGY ——

- 70MHz - 8000MHz Broadband SDR (Tx/Rx)
- Self-Developed: Ultra-wideband Signal Sources + Power Amplifiers

—— INTEGRATED SOLUTIONS ——

- Omnidirectional + Directional Antenna Integration
- AI Photoelectric Camera Recognition & Tracking
- Custom Scenario-Tailored Solutions

GLOBAL PARTNERS

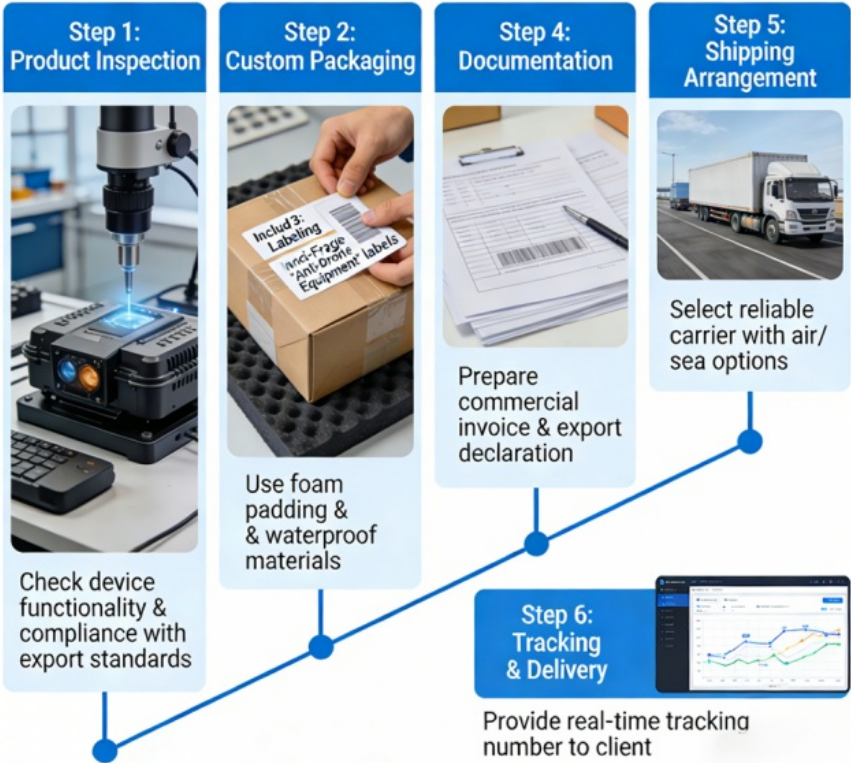
- Europe: UK, Spain
- Middle East
- South America

FIELD ENGINEERS:

Localized On-Site Technical Support (Tailored Customer Solutions)

Packaging & Shipping Specifications

Packaging & shipping specifications





Manufacturing Facility



MYT TEC

We are committed to becoming a leading global intelligent security expert at home and abroad and an innovator in the field of counter-drones. MYTTEC is established by the R&D center of Internet of Chinese Academy of Sciences, Wisisoft Co.,Ltd, and the founding team. As the leading intelligent security expert,MYTTEC has served hundreds of customers at home and abroad. We have branches and offices in Beijing,Shenzhen,Jiangxi,Jilin,Jiangsu,Guangdong,Fujian,etc.

100⁺
Served domestic and foreign customers

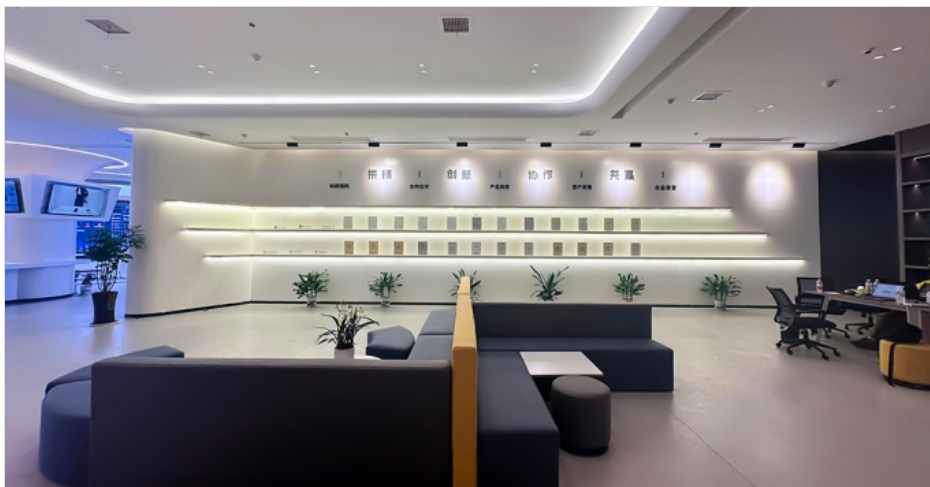
Relying on the strong scientific research capabilities of the Chinese Academy of Sciences and the industry experience of Wisisoft Co.,Ltd, MYTTEC focuses on innovation and R&D of three-dimensional security. We have over 80 patents and software copyrights. 8 products have passed the Ministry of Public Security certification.

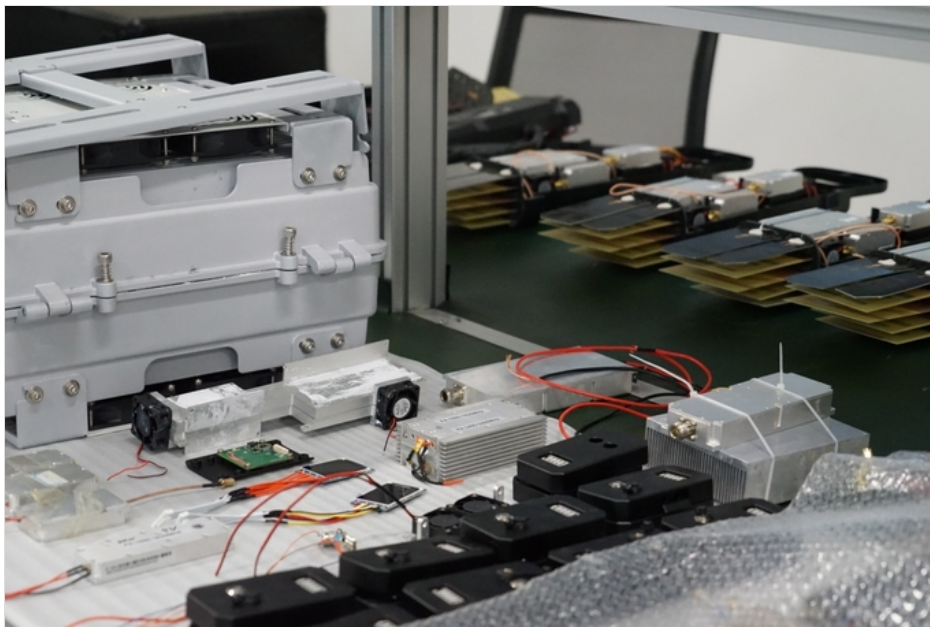
80⁺
Patents and software copyrights

Core Technologies

To meet the specific needs of unattended ground sensing and unattended low-altitude defense in scenarios of complex geographical environment, harsh climate, and wild environment of weak network and electricity infrastructure, MYTTEC develops core technologies of Unsupervised-learning-based high dimensional features extraction, multi-source sensing, low power consumption, weak signal









Customer Service & Support

24-hour after-sales service support

Online technical support for usage or quality issues

3-month return policy for unsatisfactory products with full refund upon inspection

Product modification discussions and reshipment options available



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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