# Fixed Drone Detection and Defense with Spoofing

Our Product Introduction

## Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DR200-C
- 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

- Detection Frequency Bands: 70MHz-6GHz Full Frequency Band Scanning, Detection And Display
- Detection Distance: ≥10km (depends On Working Conditions)
- Detection Height: ≥ 1200m
- Simultaneous Detection Quantity: ≥ 40 Drones
- Jamming Distance: ≥3km (depends On Working Conditions)
- Jamming Response Time: ≤7s
- Spoofing Radius: 1-3km(depends On Environment And Drone Models)
- Spoofing Response Time: ≤4s
- Detection Equipment Size: Diameter 400mm*height 370mm
- Device Total Weight: ≤150kg
- Environmental Adaptability: Working Temperature -40 -70
- IP Class: IP66
- Highlight: **fixed drone detection system**,

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## Product Description

# DR200-C Fixed Drone Detection and Defense with Spoofing

**1, Introduction**

With the rapid development and popularization of drone technology, drones have shown great application potential in aerial photography, agriculture, rescue, security and other fields, but at the same time they have also brought increasingly serious safety risks. Incidents such as illegal intrusions, malicious reconnaissance, and privacy violations occur frequently, posing serious threats to national security, public safety, and personal privacy. Therefore, the development of efficient and advanced drone jamming technology has become an urgent need to maintain airspace security and ensure social stability.

**2, Equipment Technical Parameters**

| Number | Name | Performance indicators |
|---|---|---|
| 1 | Detection frequency bands | 70MHz-6GHz full frequency band scanning, detection and display |
| 2 | Key detection frequency bands | 400MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz |
| 3 | Detection distance | ≥10km (depends on working conditions) |
| 4 | Detection range | The horizontal detection angle can reach 360°<br>Vertical detection range: -90° 90° |
| 5 | Detection height | ≥ 1200m |
| 6 | Detection response time | The time required from when the equipment is powered on to when it discovers and reports the drone ≤ 10s |
| 7 | Direction finding accuracy | ≤±3° (RMS, Under site conditions with no obvious obstructions or obvious electromagnetic interference) |
| 8 | Detection display | Drone distance, flight altitude, speed, position (including longitude and latitude, and required to be accurate to 1 meter), drone model, drone SN code, drone take-off point, drone return point, drone real-time trajectory, remote controller position (including longitude and latitude), etc. |
| 9 | Simultaneous Detection Quantity | ≥ 40 drones |
| 10 | Drone Library | Covered the fullseries of DJI (Mavic, Air, Mini, Phantom, Inspire, Spark, MATRICE, Tello, Genie etc.), Autel, Hubsan, EHang, Yuneec, ZERO Tech, Keyshare, Xiaomi, PowerVisio, GDU, Walkera, Holystone, Spardar, AEE, JJRC, Syma, TTFly, Dahua Tech, Keweita(ALLTECH), MMC, Harwar, Hikvisio, C-Fly, Zero Zero, Shiji(SJRC), SYMA, Yunke, UpAirOne, UDIRC, Fima, 3DR, Parrot, etc. |
| 11 | AI self-learning | AI self-Learning Equipped with a drone signal collection module for autonomous learning and feature library definition. |
| 12 | Jamming distance | ≥3km (depends on working conditions) |

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| 13 | Interference azimuth coverage | The horizontal angle can reach 360°, Pitch: -90° to +90° |
| 14 | Jamming frequency bands | Omnidirectional jamming frequency bands:<br>420MHz-480MHz 50W<br>650MHz-730MHz 50W<br>740MHz-840MHz 50W<br>860MHz-930MHz 50W<br>1080MHz-1200MHz 50W<br>1200MHz-1340MHz 50W<br>1340MHz-1500MHz 50W<br>1560MHz-1620MHz 50W<br>4880MHz-5080MHz 50W<br>5100MHz-5300MHz 50W<br>5870MHz-6060MHz 50W<br>5720MHz-5860MHz 100W<br>2385MHz-2490MHz 100W |
| 15 | Jamming frequency bands | Directional jamming frequency bands:<br>850MHz-950MHz 50W<br>2385MHz-2490MHz 50W<br>5720MHz -5860MHz 50W<br>5100MHz-5300MHz 30W |
| 16 | Jamming response time | ≤7s |
| 17 | Spoofing signals | GPS, Beidou, GLONASS<br>(Beidou-B1I,GPS-L1 C/A,L2,L5, GLONASS-L1,E1 can customize to choose) |
| 18 | Spoofing radius | 1-3km(depends on environment and drone models) |
| 19 | Strategies | Directed expulsion, area denial, spatial spoofing, time-space spoofing |
| 20 | Spoofing Angle | Omnidirectional 360° |
| 21 | spoofing response time | ≤4s |

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| 22 | Cloud platform | (1) Unattended and manual control functions: The system can automatically complete drone detection, identification, alerting, localization, and mitigation. The software automatically activates jamming devices, and based on the drone's location information from monitoring devices, it provides fully automated tracking interference.<br><br>(2) Blacklist and whitelist functions<br><br>(3) High-definition GIS system: It presents surrounding environment information, device deployment points, and other relevant details.<br><br>Log playback and statistical recording**: The system records drone intrusion logs, including information such as angle, alert time, and frequency. It allows playback of drone intrusion records and can generate statistical reports on drone intrusions.<br><br>(4) Equipped with log playback and statistical records: drone intrusion log, the log displays angle, alarm time, frequency information, drone intrusion records can be played back, and drone intrusion statistical reports can be provided;<br><br>(5) Positioning and automatic north calibration: The system features GPS positioning, allowing the location to be marked on a map, and it is capable of automatic north calibration.<br><br>(6) It has drone signal extraction and addition functions: it can automatically collect unknown drone signals, automatically extract parameters, and add them to the drone feature library through manual confirmation;<br><br>(7) It has the ability to display device offline, standby, power-off, and abnormal status.<br><br>(8) It is capable of deceptively interfering with the satellite navigation coordinate information received by drones that use satellite navigation positioning, and has functions such as straight line mode and circle mode. |
| 23 | Jamming device (omnidirectional)*2 | Weight: single device≤31kg |
| 24 | Jamming device (directional)*4 | Size: Length 520mm*width 465mm*height 275mm |
| | | Description:<br><br>Main device and secondary device (see the logo) to achieve omnidirectional jamming |
| | | Weight: single device≤5kg |
| | | Size: Length320mm*width 320mm*height 110mm |
| | | Description:<br><br>Divided into four sides, four host devices in total (see the logo), to realize directional jamming in key frequency bands |

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|---|---|---|
| 25 | Detection equipment weight | ≤15kg |
| 26 | Detection equipment size | Diameter 400mm*height 370mm |
| 27 | Device total weight | ≤150kg |
| 28 | Device total size | Diameter 1000mm*height 2400mm |
| 29 | Power Consumption and Supply | Detection work is 100W, full band jamming is 2800W,<br>it shall be more than 24 hrs endurance with fixed power supply. |
| 30 | Environmental adaptability | Working temperature -40 -70 |
| 31 | IP Class | IP66 |

**3, Equipment Features and Functions**

The fixed DR200-C drone detection and jamming equipment consists of a drone detection system, a radio interference system and a spoofing system, which can detect, identify, interfere and spoof with drones. It can make the drone hover, make an emergency landing or return, effectively protecting the safety of low-altitude airspace and preventing the drone from entering the defense zone. It has excellent detection and defense performance, long-distance working ability, no need for personnel on duty.

**Full frequency band detection:** 70MHz-6GHz full frequency band detection, covering all drone models.

**Super interference with FPV drones:** Effective defense against radio frequency flight control and FPV drones, with outstanding interference effect.

**Precision jamming:** Capable of precisely jamming a target drone from multiple drones of the same model and frequency band.

**Strong scalability:** Expand and integrate radar, optoelectronics, navigation and deception and other equipment, support work by one equipment and by multiple equipment network .

**Unattended:** Realize all-weather automatic and intelligent execution of preset plans. When a drone is detected, it can quickly coordinate strikes outside the defense zone.

**Military quality:** Covered by aviation aluminum fuselage, no fear of high and low temperatures, strong environmental adaptability.

**Signal collection:** Built-in drone signal collection function, which can collect and learn unknown signals.

**Customized services:** Customized intelligent solutions according to needs to provide customers with better defense effects.

**Record log/data storage:** system shall include log report consist of data related to drone detection up to 365 days.

**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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