20-8000MHz Fixed Full-Band Directional Jammer

Introduction

The fixed jamming Device integrates radio frequency (RF) jamming with a two-axis servo-controlled turret. RF Jamming Function: By transmitting radio frequency signals, it disrupts the drone's control link and video transmission link, causing the drone to lose control, hover, or be repelled, preventing it from entering the controlled area.

The device is based on an SDR hardware platform and utilizes high-power amplifiers. Paired with directional antennas and the servo turret, it achieves 360° omnidirectional target engagement. It covers the entire frequency range from 20MHz to 8000MHz, with frequency bands configurable on-site via software, effectively countering various types of drones. The system can be flexibly deployed and meets the requirements of diverse application scenarios under all weather conditions.

Features

●Long Jamming Distance: High-power amplifiers combined with directional antennas ensure an extended jamming range.

●Full Airspace Coverage: Wide-beam antennas working with the servo turret provide comprehensive airspace coverage.

●Versatile Jamming Types: The device can disrupt the navigation, remote control, and video transmission signals of common consumer drones, industrial drones, model aircraft, FPV drones, and DIY modified drones, effectively achieving drone countermeasure and control.

●Adjustable Frequency Bands: The jamming frequency range can be configured on-site according to operational requirements.

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●Stable Jamming: Employing a digital signal source solution, it delivers stable output signals without frequency deviation, ensuring reliable long-term operation.

●Clean Out-of-Band Performance: Excellent spurious and out-of-band suppression minimizes impact outside the intended bands, protecting sensitive frequencies from interference.

●Selectable Jamming Bands: Capable of emitting jamming signals on individual frequency bands or simultaneously across multiple bands.

●Turret Tracking: Driven by a high-speed motor, the turret works in conjunction with detection and positioning equipment to achieve 360° target tracking.

Parameters				
Model	ZD-J0260	ZD-J0280	ZD-J360	ZD-J380
Operating Frequency Range	20-6000MHz	20-8000MHz	300-6000MHz	300-8000MHz
Jamming Distance	5－10 km (varies depending on environmental conditions and drone type)			
Jamming Response Time	≤3s			
Pan/tilt Angle	Horizontal 360°, Vertical-30° to 60°			
Pan/tilt Speed	0.02° to 60°/s horizontally, 0.02° to 30°/s vertically			
Antenna Beamwidth	Horizontal: <75° (below 2 GHz), <30° (above 2 GHz) Vertical: <65° (below 2 GHz), <20° (above 2 GHz)			
Channel Adjustability	Jamming frequency range and output power are adjustable			
Auto North Alignment	External differential positioning antenna for automatic positioning, auto north alignment, and angle compensation			
Continuous Operation Time	7*24h			
Startup Time	1 minute			
Communication Method	RJ45 network port			
Power Supply	AC220V			
Total Power Consumption	≤3000W			
Operating Temperature	-30℃ to +60℃			
Storage Temperature	-40℃ to +65℃			
Protection Rating	IP66			
Dimensions	620 mm × 792 mm × 784 mm (excluding external omnidirectional antenna); Φ40 mm × 1000 mm (low-band omnidirectional jamming antenna)			
Weight	≤ 80 kg (excluding power adapter)			