

THE REACTIVE DRONE JAMMER™ Detect and Jam Drone Incursions

The Problem: Drones approach restricted perimeters with the intent to observe, surveil, and capture real-time activities.

The Solution: The Reactive Drone Jammer™.

This responsive countermeasure addresses both the issue of detection and blocking unauthorized Drone reconnaissance activities. The system is able to alert the operator that a drone has been detected in range.

Once detection has been automatically or manually authenticated, the system will migrate into RF Jamming mode of frequency bands used to both remotely command a Drone as well as autonomously navigate a Drone through restricted territories.



System Technology:

This is an integrated countermeasure system consisting of advanced sensor telemetry working in conjunction with a DDS Jammer platform that is able to evenly distribute interference used to block the operating parameters of most commercial drones used for unauthorized observation.

With the system's RF sensory collector, all scanned results are processed in real-time and correlated by with an algorithmic-driven database. The results provide real-time alerting before the jamming is engaged.

The operator can receive early warning notifications to defend against an infiltration and then initiate a countermeasure with a full force RF Jam wave sufficient to nullify the threat.

MicroMesh and GlobalMesh sensors can be employed for reactive jamming.

Questions being asked about the Reactive Drone Jammer™

Will this reactive system interfere with:

Police Communications?

Wireless Networks?

Aviation communications?

GSM / CDMA service providers?

VHF / UHF Radio Frequencies?

Automobile vehicle navigation?

Answer: The system is able to remain user-selectable in which frequency bands are to be targeted with RF Interference. This permits the system to be customized by the operator in order to defeat specific UAV / Drone threats in proximity to the site(s) under observation.

* Subject to local laws
and regulations

Drone Detection Features - Specs

The Reactive Drone Jammer™ is able to acquire Drone signatures using an advanced RF sensor technology, with a focus on long distance detection in order to react timely after discovery has taken place.

Drone Detection Capabilities:

- Small Drones at 500 meters using MicroMesh sensor configurations
- Medium Drones at 1000 meters using GlobalMesh sensor configurations
- Gas motored Drones up to 5 kilometers (using GlobalMesh)
- System features a real-time processor (alert times vary based on distance to targets).

Database Collection Specification Example Types:

Consumer Quadcopters (DJI Phantom, AR Parrot), RC helicopters
 Commerical Types: Hexacopters (DJI S800, CineStar6), octocopters (CineStar8, DJI S1000)
 Mil-spec gas engine Drones: (Insitu ScanEagle, AeroVironment Puma AE)

Drone Detection Output Options:

- RS-232 connection to the RF Jamming hub
- IP alerting (email, SMS, XML/JSON) with zone, Drone type
- GSM call / SMS Alert
- RF Alert (tone)



Jammer Technical Specification Options

Option 1. Portable Drone optimized jammer PDJ110		
Long Range UHF Remote Control	433 MHz ISM: 433.05-434.79 MHz	25W
WiFi 11, b, g	2400-2500MHz	25W
WiFi 11.a	5180-5825MHz	10W
GPS L1 & Glonass L1	1570-1620Mhz	25W
GPS L2 & Glonass L2	1220-1260MHz	25W
Total Power		110W
Power Supply	220VAC / 12VDC	
Power consumption		
Jamming Range	100-500M based on back ground signal strength<=-75dBm	
Dimension	72 x 45 x 32 cm	
Weight	30 Kg.	

Option 2. Portable High Power Drone optimized jammer PHODJ320		
Long Range UHF Remote Control	433 MHz ISM: 433.05-434.79 MHz	100W
WiFi 11, b, g	2400-2500MHz	100W
WiFi 11.a	5180-5825MHz	20W
GPS L1 & Glonass L1	1570-1620Mhz	50W
GPS L2 & Glonass L2	1220-1260MHz	50W
Total Power		320W
Power Supply	220VAC / 12VDC	
Power consumption		
Jamming Range	200-800M based on back ground signal strength<=-75dBm	
Dimension	70 x 55 x 60 cm	
Weight	60 Kg.	

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