



ORION-9MP

ANTI-DRONE MAN PACK SYSTEM

(UNMANNED AERIAL OBJECT OPPRESSION DEVICE)

PRODUCT INFORMATION, SPECIFICATION

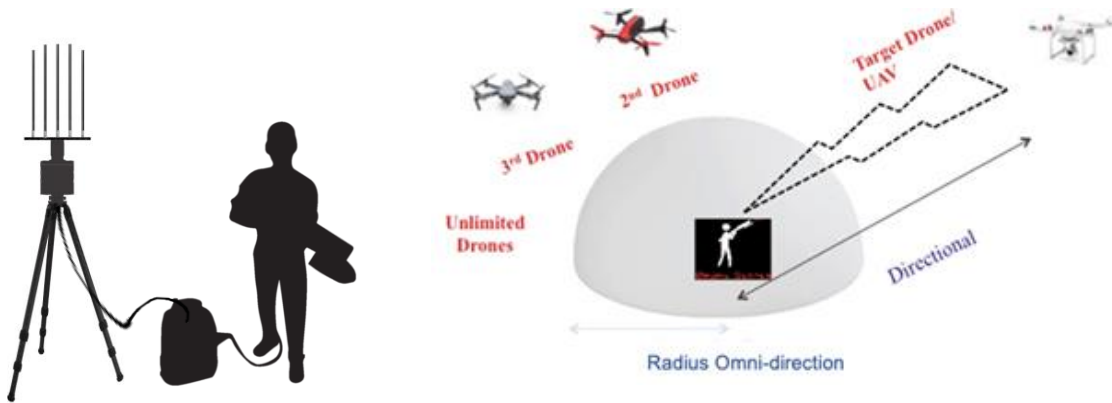


ORION-9MP is a specially designed 5 RF bands drone jammer to prevent the drones from posing any threats by either preventing the drones from entering the protected area, bringing the drones down, or sending them back to their launch point. The ORION-9MP consists of both directional and omni-directional (all-round) jammer covering the band 433MHz, 915MHz, 2.4GHz, 5.8GHz and GNSS for both the directional and all-round jamming. The coverage is effective against most widely used commercial drones as well as some military class UAVs. ORION-9MP disrupts the remote control,

telemetry, video link and GNSS transmission to the drones as far as 1,500 meters using directional jamming and forces it to land or return to home point within 5 to 20 seconds when using the directional antenna jamming system. The Omni-directional antenna jamming system covers an area of radius of 300 meters. The all-round jamming coverage will prevent drones from entering the protected area from any direction regardless of number of drones trying to intrude. Either the directional or omni-directional jammer can be used at any time.

Main Features

Unmanned Aerial Object/Vehicles oppression device is a portable device that suppresses unmanned aerial vehicles, causing loss of control signals and video transmission signals in the bands 433MHz; 915MHz; 2.4GHz; 5.8GHz and GNSS satellite navigation signal (GPS/GLONASS).



Specifications

Directional Operating Frequency Band	Suppression of 5 bands: 433MHz, 915MHz, 2.4GHz, 5.8GHz and GNSS (GPS/GLONASS)
Omni-Directional Operating Frequency Band	Suppression of 5 bands: 433MHz, 915MHz, 2.4GHz, 5.8GHz and GNSS (GPS/GLONASS)
Directional Jamming Range	1,500 meters
Antenna Directional Angle	20 degrees
Omni-Directional – All-round Coverage Range	300 meters
Antenna Operating Angle (Omni-directional)	360 degrees
Against Multiple Drone Swarm Attack	Yes, using omni-directional coverage.
Suppression Effective with Unmanned Aerial Vehicles	Landing or returning to the original starting point or hovering uncontrollably.
Light, Manpack and Portable	For easy to carry, fast response operation, and high efficiency.
Information Alert Mode	Displays information about system failure warnings and battery capacity
Environmental and Ruggedization	IP54

Ability to Choose the Operating Frequency Band	Enable/disable all bands or individual bands.
Number of Jammer Modules	5
Jammer Power	15W per module (rated power).
Directional Antenna	433MHz, 915MHz, 2.4GHz, 5.8GHz, GPS/GLONASS
Omni-Directional Antenna	433MHz, 915MHz, 2.4GHz, 5.8GHz, GPS/GLONASS
Mode of Operation	Directional and omni-directional jamming.
Built in Test	Yes, with OLED display.
Display	OLED display of battery level, temperature, and jammer operations.
Battery or AC Power	27.5V, 13Ah Li-Po. Power using: Rechargeable battery DC or AC source.
Standby Battery Time	~ 60 hours
Continuous Operational Battery Time (Directional Only)	60 minutes
Continuous Operational Battery Time (Omni-Directional Only)	60 minutes
Battery Charging Time	~ 2 hours (From battery low to full charge)
Weight of Handheld Antenna	~ 3.5 kg
Weight of Man Pack	~ 18 kg
Weight of Device	21.5 kg

The package consists of the following:

- One ORION-9MP Anti-drone man pack system (Unmanned Aerial Object oppression device)
- One RF Explorer Radio Frequency Spectrum Analyzer
- Two Ruggedized Transport Cases
- One-time training will be conducted.

1. Main System: ORION-9MP (5-Bands Directional and Omni-Directional)



2. Spectrum Analyzer



- RF explorer Portable Spectrum Analyzer for jammer modules functionality test and frequency survey of operating area. Ability to test all the frequency bands used by Jammer.

3. Ruggedized Transport Case

