

DroneNet ManPack

Tactical Counter Drone Solution for Frontline Forces

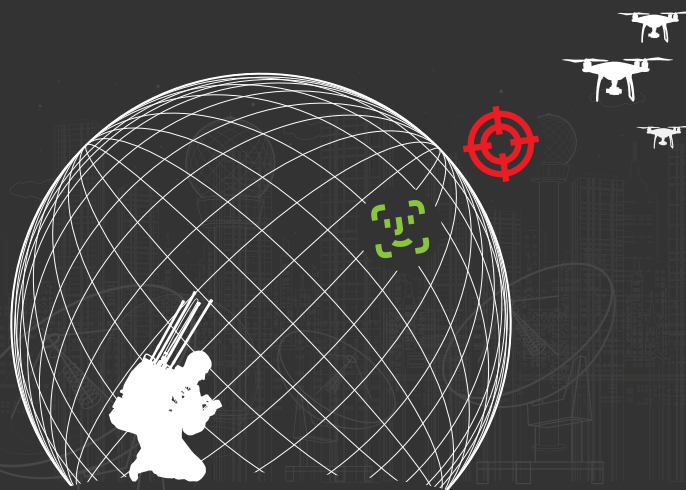
Tactical Counter Drone Defense

Netline's ManPack DroneNet platform offers a two-layered, counter drone solution for Detection and Mitigation of hostile drones, carried on a single back-backed unit by the frontline forces.

The DroneNet system is, in fact, creating a virtual protection dome over the tactical forces, preventing unauthorized drones to compromise the forces in action.

System Dynamics International is the Authorized US Reseller of the Netline *DroneNet* Counter UAS line of products. Contact us for more information or to arrange a demonstration.

Authorized US Reseller



Detection & Identification

Sensing Segment - The DroneNet's detection techniques are based on continuous analysis of time & frequency domains by RF sensors. Preloaded spectral signatures of all commercially available drones are used as the system's database. During the detection phase, the DroneNet searches for activity patterns corresponding to the stored signatures. Once a match is found the C4I console alerts a drone has been detected, as well as its type and controller type.

DroneNet's low false alarm rate of is achieved by using an SDR, modular SIGINT receiver, capable of detecting drones based on their spectral signature, being completely agnostic to the drone's protocol data (which might be encrypted or technically challenging to acquire) resulting in a fast-evolved signatures database.

Mitigation

Jamming Segment - Upon detection the system blocks the communication between the drone and its operator on ISM bands, as well as the GPS signal used by the drone.

Netline's DroneNet jammer is composed of 5 bands covering all potential drone frequencies. Each band addresses a different communication channel used by the drone for a different purpose:

- Disabling the drone's control & telemetry channel, resulting in loss of control over the drone
- Blocking the video downlink transmission
- Jamming the GPS signal, disabling the drone's navigation & stabilization capabilities

Main Features

- Covers all drone threats: 433MHz, 900MHz, GPS, 2.4GHz, 5.8GHz
- Simultaneously blocks multiple threats
- Multiple jamming schemes: barrage, sweep, spot and complex waveforms
- Does not require Line of Sight
- Compact, lightweight robust design in a MIL-STD back-pack
- Hot swappable rechargeable batteries - continuous operation
- Radiation Safety - SAR (Specific Absorption Rate) tested and qualified
- Based on an SDR platform, enabling DDS signal generation
- Compact shoulder mounted Remote Control Unit (RCU)
- Zeroize function to delete sensitive data from the system

Technical Specifications:

Total Transmission Power	60W
Frequency Range	433MHz, 900MHz, GPS, 2.4GHz, 5.8GHz
TX Signal Source	Direct Digital Synthesis (DDS)
Battery Operating Time	Over 75 Minutes
	Standard Li-Ion 2590 batteries (2)
Heat Dissipation	Forced-air cooling
Built-in Test	Low transmitted power, under Voltage, VSWR, Over temp, missing signal programming
Environmental	Operating temperature: -10° to +49° C
	Humidity: 90%
Dimensions (cm)	34x52x21 cm
Weight (Kg)	Up to 20 kg

