

ANTIDRONE SYSTEM

Detection, Tracking
and Neutralization



In a context where drones are increasingly accessible and their misuse can create security risks, VENG develops a comprehensive solution for the protection of airspace in critical zones, fully integrable with existing airport infrastructures.

The system combines detection, localization, and neutralization technologies, providing constant and adaptable surveillance. Its scalable design allows adjustments to different risk levels and environments, ensuring an effective response against unauthorized threats.

General Features



Receiver antenna array for **passive drone detection**



Identification of operating frequency and **signal origin direction**



Active defense module via **blocking signal emission**



Advanced triangulation system for precise geolocation



Adaptable configuration to regulations and risk levels



National development with **scalable technology to different scenarios**

Advantages

- ◆ **Continuous aerial surveillance** without the need for direct line of sight to the drone
- ◆ **Non-invasive neutralization**, without physical contact with the aircraft
- ◆ Immediate interruption of flight or automatic drone retreat
- ◆ **Accurate geolocation** to optimize response
- ◆ **Comprehensive protection** of critical facilities, mass events, borders, and airports
- ◆ **Scalable and adaptable** solution for each client



Drone Detection Equipment



Passive system that detects unmanned aircraft omnidirectionally or directionally without emitting signals. Identifies UAVs and locates their operator through the flight path.

Operates between 300 MHz and 6000 MHz, capturing radio signals to alert intrusions. Provides visual and audible alarms upon detection.

Neutralizes UAVs by forcing them to land or leave the risk area. Key tool to protect sensitive areas against drone threats.

FREQUENCY RANGE	300MHZ~6000MHZ
WORKING DIRECTIVITY	OMNIDIRECCIONAL - DIRECTIVA
DETECTION RANGE	≥6KM
AZIMUTH DETECTION ACCURACY	≤3° (RMS)
LOCATION ACCURACY	±5 M
IP RATING	IP66

Directional Suppression Equipment (with/without Gimbal)

OPERATING FREQUENCY BANDS	400MHZ, 800MHZ, 900MHZ, 1,2GHZ, 1,4GHZ, 1,5GHZ, 2,4GHZ, 5,1GHZ, 5,4GHZ, 5,8GHZ
INTERFERENCE MODES	DISCONNECTION MODE / FORCED LANDING MODE
INTERFERENCE RANGE	1-5 KM (VARIES DEPENDING ON ENVIRONMENT AND UAV MODEL)
RESPONSE TIME	<5S
GIMBAL ROTATION ANGLE	HORIZONTAL 360° / VERTICAL 0-60°
OPERATING TEMPERATURE	-40°C TO +60°C
PROTECTION LEVEL	IP6
POWER SUPPLY	AC220V+44V

Features

- Forced landing / Return-to-home
- Long-range countermeasure
- Multi-frequency interference
- Band indicator
- Smart functionality
- Automatic mode



Waterproof Omnidirectional Suppression Equipment

POWER CONSUMPTION	≤600W
OPERATING DISTANCE	≥2 KM.
DIMENSIONS	489MM*461MM*233MM
OPERATING FREQUENCIES	400MHZ/800MHZ/900MHZ Y 1,2 GHZ Y 1,4 GHZ Y 1,5 GHZ/2,4 O 5,8 GHZ/5,1~5,9GHZ
OPERATING TEMPERATURE	-40°C A +60°C
CONTROL INTERFACE	RJ45

Features

- Omnidirectional
- Effective suppression
- Resistance to adverse weather



Commercial Contact

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