

MANTIS

Anti-Drone System

Advanced Shield Against Unseen Eyes

MANTIS is a Anti-Drone System, an advanced, modular solution engineered to provide comprehensive drone security. Leveraging AI-powered image recognition, it delivers precise real-time detection, identification, and classification of drones, ensuring accurate threat assessment. Designed to localize, identify, and neutralize unauthorized UAVs, MANTIS seamlessly integrates state-of-the-art technologies to safeguard critical infrastructure, sensitive environments, and restricted airspaces with unparalleled efficiency and reliability.

Key Features

-  Modular configuration based on requirements
-  Multi sensors - RF and PTZ
-  Multiple drone tracking in detector and DF
-  Portable unit for easy setup
-  Jamming capability up to 2 km effective range
-  AI verification and visual tracking

Technical Specifications

Jammer

Frequency	1.5 GHz (30 W)
	2.4 GHz (30 W)
	5.8 GHz (30 W)
Effective Range	Up to 2 km
Antenna	Yagi

Mechanical

Maximum Power Consumption	Up to 5000 W (2 Stations Configuration)
Equipment Weight (Per Station)	Ground Unit : 25 kg Aerial unit : 35 kg



Sensor

Radio Frequency	Detector	Freq Band	2.4 GHz / 5.8 GHz
		Detection Distance	5 km
		Antenna	High Gain Omni
		Sensor	360 degree
		Drone ID Decode Capability	Serial number, Model, Drone and altitude, pilot, home position
	Direction Finding	Freq Range	850 MHz – 6000 MHz
		Detection Distance	4 km
		Antenna	Log Periodic Dipole Array
		Sector	360 degree
		Bearing Accuracy	10 degree RMSE
Visual	PTZ Camera	DF Method	Amplitude Comparison
		Maximum Zoom	52x
		Detection Distance	500 m
		AI Verification Distance	300 m