

# Anti-UAV Defense System

## SYSTEM OVERVIEW



The anti-UAV defense system adopts an integrated architecture, comprising a detection subsystem, a countermeasure subsystem, and command control software. The detection subsystem employs multi-sensor technologies (radar, electro-optical devices, etc.) to achieve all-weather, omnidirectional detection, search, and tracking of low-altitude UAVs, automatically acquiring target parameters (range, azimuth, altitude, velocity, etc.). The countermeasure subsystem integrates soft/hard kill means (electronic jamming, weapon stations, DID, etc.) to neutralize threats. Command control software visualizes comprehensive situational awareness, assists in formulating defense strategies, and automatically guides directional jamming devices, weapon stations and DID to repel or intercept the targets.

It can be widely applied to the protection of key core targets such as position command posts, oil depots, ammunition depots, government security sites,

airports, and energy infrastructure.

## TECHNICAL SPECIFICATIONS

Specifications		Parameters
Radar	Band	X
	Operation Distance	>14km(RCS=0.01m <sup>2</sup> ,DJI Phantom 4 Drone)
	Coverage Range	Single array: azimuth ±45° Quadruple arrays: azimuth 360°
	Tracking Target	>1000
Infrared Thermal Imaging Equipment	Detector	Uncooled VOx IR FPA
	Detection Range	3km
	Resolution	640×512
	Lens Focal Length	38~190mmContinuous Zoom Lens
High-Definition Visible Light Equipment	Sensor	1/1.8" Target Starlight-Level CMOS with ICR Color-to-Black Function
	Detection Range	3km
	Resolution	1920×1080
	Focal Length	11~860mm High-Definition Motorized Zoom Lens
Directional Jamming Equipment	Effective Jamming Distance	≥3km
	Jamming Coverage Area	Azimuth:0°~360°; Pitch:30° ~90°
	Jamming Frequency Band	900M/1.6G/2.4G/5.8G
Weapon Station	Range	200m (W-25) 800m (W-150)
	Hit Probability	The hit rate of 1 hit in 3 attempts is ≥ 90% (W-25). The knockdown rate within 10 seconds is ≥ 60% (W-150). The knockdown rate within 30 seconds is ≥ 90% (W-150).
DID		Maximum Speed: 40m/s Range: 5km

	Interception Mode: AI autonomous interception
Dimensions	Detection section: 100×100×170 cm (L×W×H) Countermeasure section: 1170×970×900 cm (L×Wh×H)
Weight	Detection section: 240 kg Countermeasure section: 20 kg / 250 kg
Power Supply	AC 220V