



Falcon Drone Defense System

With the development of UAV technology, the traditional anti-UAV systems may not be able to effectively meet the challenges of new UAVs, so there is a need to build systems with long-range detection and strike capabilities to deal with the evolving UAV threats.

The Falcon Drone Defense System is designed through an integrated structure, which is mainly composed of active radar detection + passive RF sensor → RF jamming → GPS Spoofing → Central control software, this system can achieve timely detection, tracking and jamming functions of civil UAVs.



Functional indicators

Detection type	All kinds of sports drones
Active frequency band	9400MHz ~ 9600MHz
Passive frequency band	2400-2500MHz, 5725-5850MHz (Expandable)
Navigation interference band	1575.42MHz ± 1.023MHz (GPS-L1) 1602MHz+N*5625kHz±511kHz(N take-7 to 6) (GLONASS-L1)
Interference band	1560-1620MHz, 2400-2500MHz, 5150-5850MHz (Expandable)
Coverage area	360°
Active detection radius	≥5km
Passive detection radius	≥5km
Navigation interference distance	0.5-3km (Tunable)
Jammer operating distance	5km
Dimension(Open)	850mm×850mm×1700mm
Weight	250kg
Wind strength	Force 10 wind
Operating temperature	-40 ~ 55 °C
Storage temperature	-45 ~ 65 °C
Working humidity	≤95%
Data interface	RJ45
Power interface	220V
Overall power consumption	≤450W(Detection) · ≤1000W(Counter)
Platform function	Black and white list, real-time detection, photoelectric tracking, automatic countermeasures, manual countermeasures, GIS mapping, data storage, event query

Product advantages



Integrated product design, highly integrated, ensure equipment stability and reliability



One platform, four units, a comprehensive solution to low and slow small drones



The fusion detection of active radar and passive spectrum detection solves the detection problem of all models of multi-shape and multi-state brands.



The combination of advanced navigation decoy scheme and targeted electromagnetic interference only acts on the location of the target, reduces the impact on the surrounding environment, and effectively solves problems such as disturbed navigation.