

C-UAS

MODEL: JP-D20C-LY206

RF DETECTION SYSTEM

The **JP-D20C-LY206** Fixed Passive RF Detection System is engineered to detect, analyze, and classify radio frequency signals emitted by unmanned aerial vehicles across a wide-band spectrum ranging from 20 MHz to 6050 MHz. The system performs UAV detection and direction finding by processing the RF signals radiated from the target platform.

Once powered on, the device rapidly and automatically identifies and locates UAV activity, while delivering immediate early-warning notifications through integrated audible and visual alarm indicators.

The system provides rapid UAV threat awareness by passively locating drones and their operators, determining signal direction, and enabling precise source positioning through triangulation.

With real-time early warning, accurate threat localization, and dependable drone communication recognition, it significantly enhances situational awareness and response effectiveness for fixed-site counter-UAS protection. The RF detection system is integrated with the command and control for automatic response or manually command.



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PRODUCT PERFORMANCE

RF DETECTION

PRODUCT PERFORMANCE DETECTION AND POSITIONING

System Attribute	Parameter
Detection and Identify UAV Type	Multi-rotor drones, fixed-wing drones, FPVs
Example of UAV Type/Model in the library	DJI (Air, Mini), FPV, Autel, Dahua, Yuneel and other common brands
Detection Frequency	20 MHz~6050 MHz
Detection Range	10km (Coverage signal : Drone Data link, Remote Control Link, and Video Down Link)
Detection Height	0-2000 m
Detection Coverage	360°
Simultaneously Detected Target	≥40
Azimuth Error	≤0.5° (RMS)
Detection Finding Accuracy	Max 3° (RMS)
Positioning Accuracy	≤10m
Probe Success Rate	≥99%

PRODUCT PERFORMANCE

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PRODUCT PERFORMANCE DETECTION AND POSITIONING

System Attribute	Parameter
Scan and Update Rate	≤2.5s (1 scan every 2.5 seconds across the entire monitored frequency band)
Continuous Working Time	7*24h
Communication Method	RJ45 interface communication TCP/IP protocol
Power Supply	220V/50Hz AC power supply
Total Power Consumption	90W
Operating Temperature	-40°C ~ +70°C
Storage Temperature	-50°C ~ +75°C
Protection Standard	IP65 equivalent to Military Standard (GJB 150A)
Dimensions	600 mm x 600 mm x 386 mm
Weight	≤18 kg
Data Coverage	Covers drone data link, remote-control link, and video downlink signals of unmanned aerial vehicles (UAVs)
Compliance (EMC/EMI)	GJB151B (equivalent to MIL-STD-461G)