

UAMS-D03 Spectrum Detector

Specification Sheet

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1 Function and Purpose

UAMS-D02 drone detection and positioning detector can achieve drone detection and pilot positioning by analyzing the communication link. It features a blacklist and whitelist function as well as trajectory tracking, allowing for flexible deployment and is suitable for various scenarios and environments.



1.1 Product Features

1) Drone pilot positioning、 Trajectory Tracking

D02 can display real-time flight trajectories of drones, remote control frequency bands, models, unique IDs, flight altitudes and speeds, locations of drones, and locations of pilots.

2) conjunction with radars, GPS deception

D02 provide extended interfaces, which can conveniently realize the linkage

with radar, GPS guidance, interference and other devices.

3) Blacklist and Whitelist

By pre-defining or dynamically learning the signal characteristics of drones, precise control and management can be achieved to allow passage for legitimate devices and to intercept illegal targets, effectively reducing the false alarm rate and enhancing the efficiency of security protection.

4) Flexible deployment and Ease of Operation

D02 is lightweight, can be set up by a single person, making it convenient for users. Additionally, the human-machine interface is intuitive and straightforward, and the configuration is simple.

1.2 Product Specifications

- 1) Frequency range: 30MHz—6000MHz;
- 2) Detection range: $\geq 10\text{km}$ (standard field with a drone transmission power of 0.1W);
- 3) Scan speed: 20GHz/s (25kHz resolution);
- 4) Identification technology: spectral features, positioning analysis (including O4 analysis), RID analysis;
- 5) Polarization method: Vertical polarization;
- 6) Range accuracy: $\leq 5\text{m}$ (RMS standard site);
- 7) Positioning accuracy: $\leq 10\text{ m}$;
- 8) Simultaneous target detection: ≥ 30 aircraft (simultaneous positioning of pilots ≥ 10);
- 9) Equipment power consumption: $\leq 100\text{W}$;
- 10) Structural dimensions 450mm * 450mm * 380mm;
- 11) Weight : $\leq 13\text{Kg}$;
- 12) Power supply method: 220V AC alternating current;

13) Data Interface: Network Port;

14) Protection level: IP65;