

ROOF-RACK COUNTER-UAS SYSTEM

The roof mounted counter-UAS system integrates detection and jamming in one compact unit. Easily installed on vehicles, it provides mobile, real-time protection against drones with fast response and high reliability.



REMOTE
CONTROL



WATERPROOF
IP66



DETECTING



JAMMING

DISTINCTIVE ADVANTAGES

→ Automatic North-seeking

Identifies the bearing angle relative to north.

Integrated Detection and Jamming

→ Passive Detection with
Integrated Detection-and-Jamming Design.

Positioning Function

→ Built-in positioning module,
supporting GPS/Beidou positioning.

Passive Detection

→ The system shall not transmit radio signals while in
detection mode.



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This integrated counter-UAS system provides passive detection from 30 MHz to 6 GHz with a range of over 5 km and high angular accuracy. It can detect more than 60 drones simultaneously, identify multiple models and controllers, and display detailed flight information in real time. The system supports multi-band jamming (418 MHz–5.8 GHz) with an effective range of 2 km, disrupting up to 35 targets at once. Built to IP66 protection standards, it features GPS/Beidou positioning, automatic north alignment, and remote management via cloud, mobile, or tablet, ensuring reliable situational awareness and rapid response.



PASSIVE DETECTION

Enables operators to remain undetected



DETECTION ACCURACY

The system provides a detection accuracy of $\leq 1.0^\circ$



Simultaneous Detection

60 UAVs (simultaneously)



Simultaneous Jamming

35 UAVs (simultaneously)

Specifications

WRJZ-DW-3	
Detection Frequency Range	30MHz~6GHz
Detection Range	Up to 5 km / 3.11 miles
Frequency Measurement Accuracy	The system can display the detected drone operating frequency on the control platform with an accuracy of up to 1 kHz.
Intelligent Detection	Supports detection of drones operating on 433 MHz, 800 MHz, 900 MHz, 1.2 GHz, 1.4 GHz, 2.4 GHz, and 5.8 GHz.
Simultaneous Detection	Supports simultaneous detection of ≥ 60 drones, with identification of ≥ 35 drone types and ≥ 12 types of remote controllers concurrently.
Transmission Frequency	Channel 1: (418 \pm 5) MHz~(452 \pm 5) MHz Channel 2: (891 \pm 5) MHz~(936 \pm 5) MHz Channel 3: (1167 \pm 5) MHz~(1276 \pm 5) MHz Channel 4: (1538 \pm 5) MHz~(1622 \pm 5) MHz Channel 5: (2395 \pm 5) MHz~(2510 \pm 5) MHz Channel 6: (5150 \pm 5) MHz~(5400 \pm 5) MHz Channel 7: (5698 \pm 5) MHz~(5875 \pm 5) MHz
Waterproof	IP 66
Jamming Range	≥ 2 km
Jamming Response Time	≤ 3 s
Simultaneous Jamming	≥ 35
Remote Control	Supports remote management via cloud server and mobile device interfaces such as smartphones and tablets.

* Depending on the RF environment & line of sight

* Please email us for more information