

Portable Drone Detection and Positioning All-in-One System

Technical Data Sheet



PRODUCT OVERVIEW



Figure 1. HD5-R

The HD5-R portable drone detection and positioning all-in-one system is used for drone detection and identification, offering advantages such as easy deployment, mobile compatibility, early warning, and positioning with trajectory tracking. When a drone enters defense areas, this device can raise the alarm, determine the real-time location of the target and the pilot through CRPC message level protocol cracking, and record the trajectory of the drones.

KEY FEATURES

Passive Detection: Passively receives only and does not emit any electromagnetic signals, it has no impact on the surrounding environment.

Trajectory Tracking: Multi-target drone trajectory tracking, and pilot (remote control) tracking.

Precise Identification: It can accurately identify the serial numbers of different drones from the same brand, the same model, and the same frequency band.

Cost-effective: A Single set of equipment which has full functions, can be used for individual operations, is easy to use and deploy, and can also work in coordination with other equipment.

Position with a Single Device: One device can position the drones and pilot (remote

control).

User-friendly: By a simple click, the system runs automatically, carrying out automatic detection and alarm functions.



Figure 2. Dimensions: 470mm × 357mm × 176mm



Figure 3. Diagram of the ports

PACKAGING INFORMATION

Packaging Dimensions (Main Device)	Specifications
Device Dimensions	470mm × 357mm × 176mm
Packaging Dimensions	490mm × 470mm × 630mm
Weight	≤28kg
Packaging Method	Flight Case

*The packaging information is for your reference only.

TECHNICAL SPECIFICATIONS

Main Bands (Customizable)	900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz
Detection Distance	0~5km(Differences exist due to different environments and drone types)
Detection Range	360° Full Airspace
Detection Quantity	≥20 Drones (Simultaneous)
Number of Trajectories Tracking	≥10 Drones (Simultaneous)
Position Accuracy	≤10m (RMS)
Position Distance	0~5km
Detection Height	0~1km
Power Supply	Built-in lithium battery or AC110~240V
Power Consumption	≤50W
Continuous Runtime	>12hours (at full load condition)
Dimensions	470mm × 357mm × 176mm
Weight	<13kg
Operating Temperature	-40°C to +65°C
IP Rating	IP66 (Closed state)