Handheld Drone Passive Detection System

H3 Pro

Technical Datasheet



1. Product Profile

Based on CRPC 2.0 technology, it adopts a deeper data chain decoding solution to analyze and extract real-time flight attribute information from data in specific formats, and accurately identifies the drone's graphic and video stream, serial number, geo-location, trajectory, altitude, speed and remote control position, etc., to detect, identify and locate the unauthorized drones more quickly and accurately. The device has an integrated design, small in size, light in weight, and easy to carry, which is suitable for all kinds of single-soldier low-altitude protection.



Figure 1 H3 Pro Appearance

2. Key Features

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

Precise Identification: Precisely identify the SN, model, geo-location, speed, altitude, trajectory, and remote controller information of the drones in real time.

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

Position Navigation: Detect the pilot's (remote controller) position in real-time, one-click to track the pilot and the drone.

Black and White List: One-click to mark the whitelist, there will be no alarm for white-listed drones.

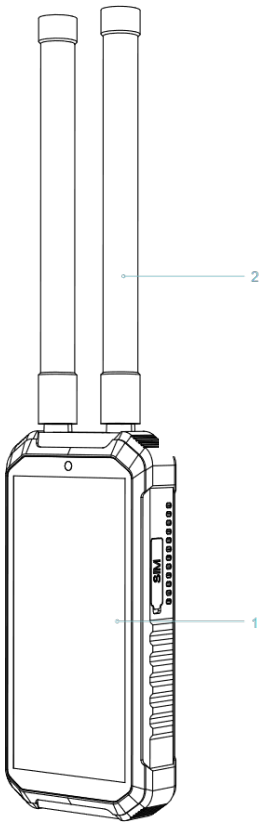
Network Management: Support network access to the control platform, to achieve multi-device collaboration, and to achieve a wide range of prevention and control scenarios.

Analog Video Transmission: The system can provide a live FPV stream of detection, identification, and real-time video transmission.

Compact and Portable: Light in weight and small in size. Portable, shockproof, and drop-proof.

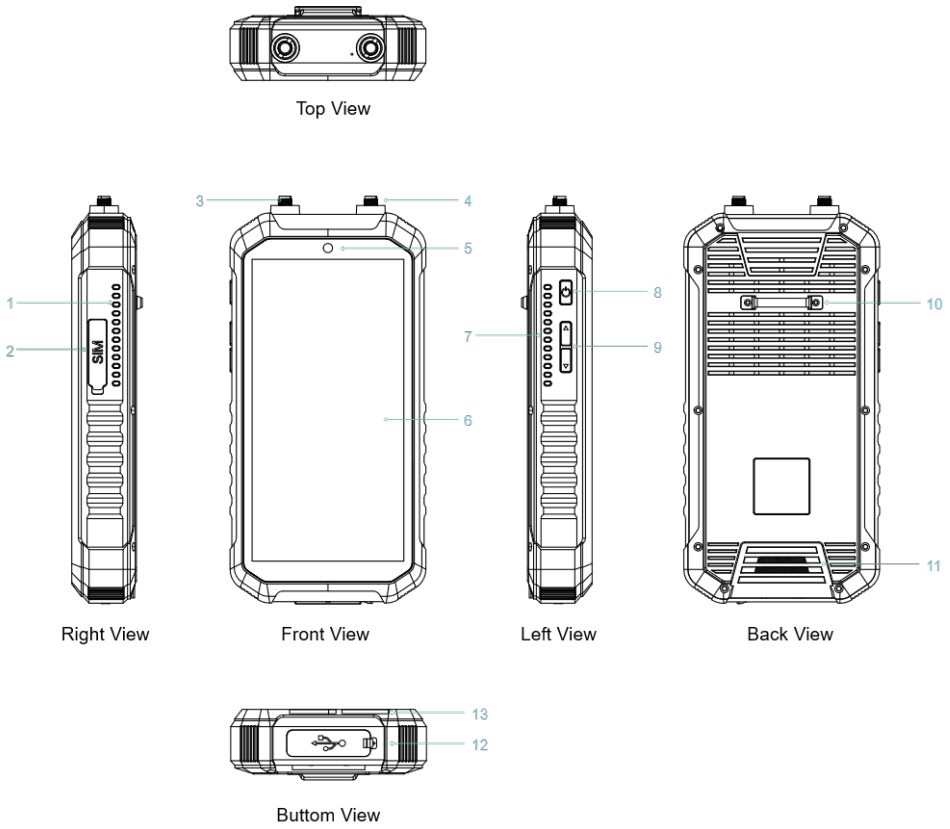
3. Product Dimensions and Interface

■ Dimensions



1. Main unit 2. Antennas

Figure 2 Dimensions: 177mm × 89mm × 30mm



1. Ventilation Holes
2. SIM Card Slot
3. Wi-Fi Detection Antenna Port
4. Full-band Detection Antenna Port
5. Front Camera
6. Touch Screen
7. Ventilation Holes
8. Power On/Off Button
9. Volume Keys
10. Wristband Mount
11. Speaker
12. Type-C Port & 3.5mm Audio Jack
13. Wristband Slot

Figure 3 Diagram of the ports

4. Packaging Information

Packaging Dimensions	Specifications
Device Dimensions	177mm × 89mm × 30mm
Packaging Dimensions	375mm × 310mm × 115mm
Weight	≤3.5kg
Packaging Method	Packaging Box

*The packaging information is for your reference only.

5. Technical Specifications

Detection Bands (Customizable)	800MHz&900MHz, 1.2GHz, 2.4GHz, 5.2GHz&5.8GHz, Wi-Fi
Detection Distance	0~3km(Differences exist due to different environments and drone types)
Sensitivity	-95dBm
Position Accuracy	≤3m (RMS)
Detection Quantity	≥15 Drones (Simultaneous)
Number of Trajectories Tracking	≥11 Drones (Simultaneous)
Response Time	≤5s
Dynamic Detection	0~80km/h (Vehicle speed)
Power Supply	Built-in lithium battery
Battery Capacity	12000mAh
Charging Power	Charging Input: DC 12V, 2~3A Fast Charging Supports Power Delivery 3.0 (PD 3.0)
Charging Time	≤3 hours (0% to 100%, powered off) ≤4 hours (0% to100%, during operation)
Power Consumption	≤15W
Continuous Runtime	≥4h (Support charging while using)
Dimensions	177mm × 89mm × 30mm
Screen Size	6.0 inch
Weight	≤580g (±50g, without antenna) ≤46g per antenna
Operating Temperature	-25°C to +65°C