Handheld Drone Detection Device

User's Manual

The handheld drone detection device is highly powerful and widely applicable. It is primarily designed for analog fpv drones used in aerial surveys and DIY unmanne aerial systems (UAS).

This system is designed for detection using human-machine interfaces and drone models from brands such as DJI and Autel drones and is also compatible with all types of drones compliant with the standards GB42590-2023,ASD-STAN-PR EN 4709-002, and ASTM F3411.

Characteristic：

- Multi-channel detection mode: Combines spectrum analysis with packet parsing to ensure comprehensive and accurate detection.
- Enhanced information capture: Supports GB42590-2023, ASD-STAN-PR EN 4709-002 and ASTM standards. The F3411 standard drone can obtain extensive information, including the aircraft and pilot's latitude and longitude, device ID, and distance.
- The system displays parameters such as distance, altitude, and aircraft orientation.
- The screen features a built-in map that shows drone entries, using different icons to indicate the pilot's position, drone location, and device location. Clicking on positioning displays the drone's real-time trajectory.
- Historical records can be queried, and the offline map ensures accurate positioning even without internet connectivity.
- Ultra-wide band coverage: Fully covers all frequency bands of analog video transmission devices, leaving no potential threat undetected.
- Precise Band Detection: Capable of accurately identifying the specific frequency bands used for FPV video transmission (analog).
- Security and offline detection: The detection process relies on no external infrastructure, ensuring device independence and security.
- Multiple alert options: Supports text display, sound, and vibration alerts to promptly notify users.
- Long-lasting battery life: Equipped with a built-in 8Ah high-capacity battery that delivers stable operation for 5 –6 hours, meeting extended usage requirements.

- User-friendly experience: The device features a compact and lightweight design, is ready to use upon startup, offers simple operation, and is easy to carry. It is fully capable of handling both outdoor inspections and emergency response tasks.

Parameter

Frequency range: 70 MHz to 6000 MHz.

Detection range: 0.5 –3 km (depending on the surrounding electromagnetic environment)

Product dimensions: ≤170x72x30 mm (excluding antenna)

Weight: 320 g

Power Consumption: ≤12 W

Operating temperature: -30 °C to +50 °C

Continuous usage duration: 5 –6 hours

Product picture

Note: L is the low-frequency antenna connected to the left side of the device, and H is the high-frequency antenna connected to the right side.

Direction for use

1. Open the packaging and remove the device. Check whether the appearance, battery, and screen are intact; report any damages to the technical support team.

2. Figure 1 shows the main power button. Pressing it repeatedly will illuminate the screen. When pressing the switch, ensure you press it at the center position. Once the screen lights up, release the switch and wait for startup; the startup duration is 30 seconds.

3. Figure 2 shows the charging port. Connect our standard charger to begin charging. Note that this charger requires 12 V at 4 A; other chargers are not permitted.

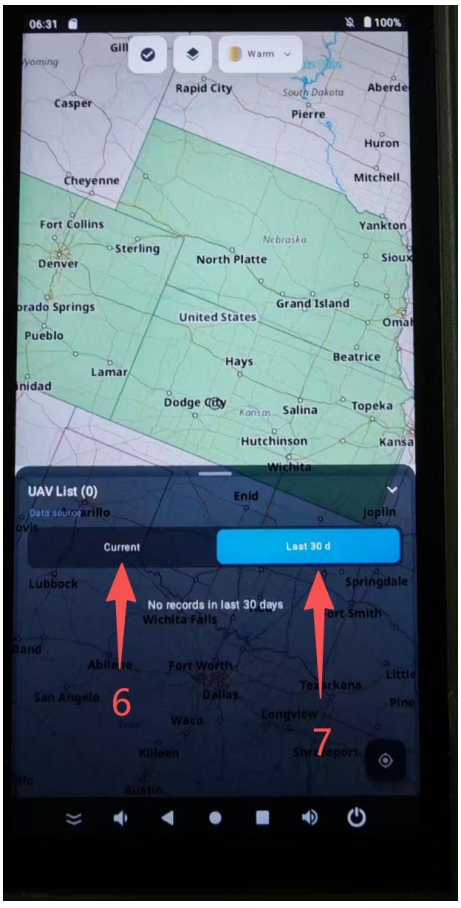
Figure 3 below shows the SD card slot. To export data from the past 30 days, customers can remove the SD card and copy the tables from the device to their computer.

4. Figure 4 shows the touch screen.

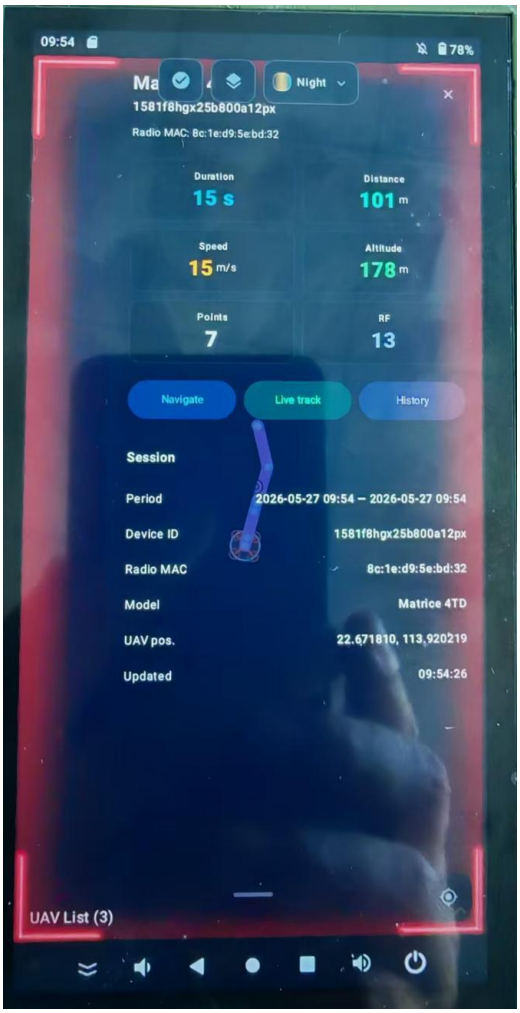
5 、 Figure 5 shows the device's desktop interface, which includes a Detector app. Opening this app automatically grants access to the device.

6. This displays the current number and models of detected drones. If you need detailed information, click here or the drone appearing on the screen will open a 9-panel interface showing aircraft altitude, azimuth, distance to pilot, distance to drone, real-time trajectory, and other data.

7. For the 30-day domestic drone data, the same results as those presented in Figure 7 can also be observed.



8. For drone data, the red border indicates a detected alarm, accompanied by an audible alert.



9. Export historical data for the past 30 days and copy it to your computer via an SD card (Max. support 256G).