

InphiGo P1

User Manual

V2.0



Copyright and Declarations

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When using this product, please strictly comply with all applicable laws and regulations. In the event of any conflict between the content of this manual and applicable laws, the law shall prevail.

Declaration of Corporate Standards

The production and sale of this product shall comply with the enterprise standard specifications established by the company.

Reading Tips

This manual applies to the UAV radio detection equipment developed and produced by the company. The manual provides comprehensive specifications, functional design, structure and specification requirements of the system, as well as installation, deployment, and operational requirements, serving as an operational guide for end users.

Symbol Legend

	Supplementary Notes: Additional explanations and annotations to the main text of the manual.
	Safety Notices: Important operational warnings and risk prevention guidelines for users.
	DANGER: Indicates imminent hazards which, if not avoided, will result in death or serious injury and major property damage.

Manual Usage Recommendations

1. Before using the product, please read this manual thoroughly. Retain this manual for future reference to address any operational inquiries.
2. All photographs, graphics, charts, and illustrations in this manual are for explanatory purposes only and may differ from the actual product. Refer to the physical product for exact specifications. The company reserves the right to update this manual due to product version upgrades or other requirements, with the latest electronic version to be distributed to users.
3. The company recommends using this manual under the guidance of qualified personnel.

Safety Notice

Before using the product, please carefully read the following precautions and operate the product correctly as required.

Installation Precautions

Environmental Requirements

Do not install or store the product in any of the following locations:

- Extreme environments: places where temperatures exceed the range of the device operating temperature or where frost may form.
- Near strong electromagnetic interference sources or equipment with large current fluctuations.
- Areas with flammable, explosive, corrosive gases or dust.
- Damp or water-exposed areas. Liquid ingress may cause electric shock or fire hazards.

Operational Guidelines

- Only qualified personnel or designated maintenance staff may open the chassis.
- All antennas must be fully connected and tightened according to the labels. Powering on the device without antennas installed is strictly prohibited.

Usage Precautions

Power and Electrical Safety

- Use only the specified AC 110 V–220 V power supply.
- Do not pull or bend the power cord. Avoid crushing or twisting it, and stop using it if damaged.
- Do not operate the equipment during thunderstorms. Avoid touching power lines or device connectors during lightning to prevent electric shock.
- Always unplug the power cord before moving the device.

- Do not touch the power plug with wet hands.
- When unplugging the power cord, hold the plug body firmly.

Operational Risk Warnings

- If abnormal conditions such as smoke, unusual noises, or burning smells occur, shut off power immediately and contact our after-sales service department.
- Do not install any software unrelated to the software platform; system issues caused by such software are not covered under warranty.
- Do not connect unauthorized USB drives or external hard drives to avoid malware infection. Do not delete server files arbitrarily, change the system time, or shut down or restart the server without authorization.
- Unauthorized personnel are prohibited from disassembling the device to avoid damaging internal components or compromising your rights. If the device malfunctions during use, contact our after-sales service department.

Regulatory Compliance

- This device may cause radio interference during operation. Users must take feasible measures to mitigate such interference.
- If suspected interference occurs with civil-aviation or military frequencies, stop using the device immediately, investigate the cause, and report the incident.

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1 Product Overview

The product includes the InphiGo P1 device and its accompanying APP. The InphiGo P1 is a handheld drone detection device that supports Bluetooth, WiFi, and 2.4G/5.8G signal detection. It can detect the location of drones within its range and provide alarm notifications.

The InphiGo P1 device can be used independently or connected to the APP via Bluetooth. By connecting to the APP, users can access more detailed information and adjust device functionalities during use.

1.1 Product Features

Compact and Portable

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

Precise Identification

Precisely identify the serial number, model, position, speed, altitude, trajectory, and remote controller information of the drones.

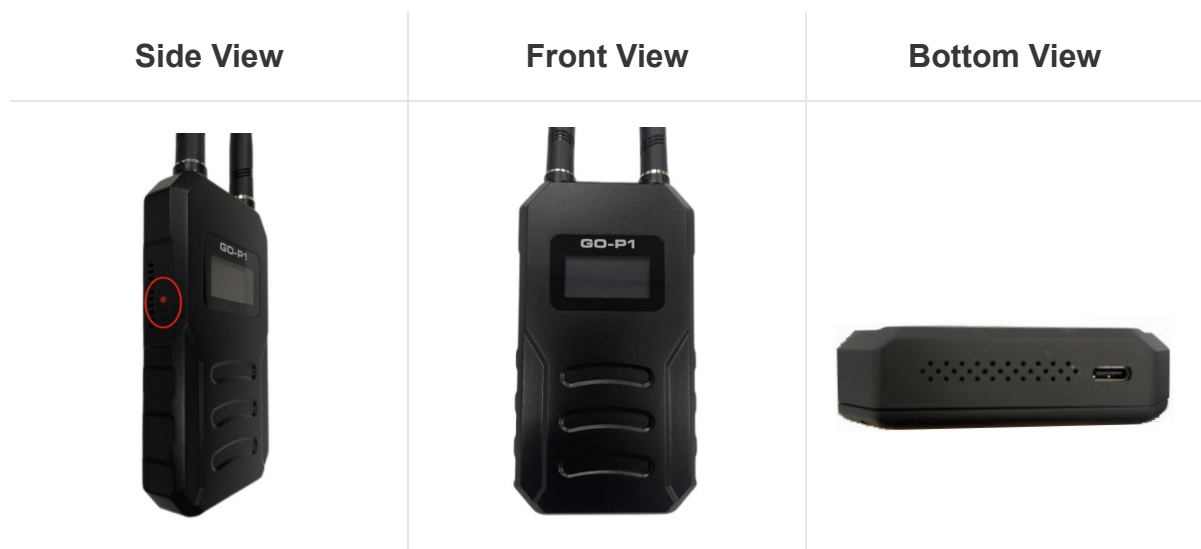
1.2 Device Appearance



1. Main Unit

2. Antennas

The overall appearance of the device is as follows:



2 Equipment Deployment Preparation

This device adopts a portable design ideal for rapid outdoor deployment. Under compliant environmental conditions, it ensures stable operation and optimal detection performance. First check the specifications and quantity of all parts and standard parts according to the equipment delivery list, and then assemble them step by step according to the following installation steps.

2.1 Site Selection

The equipment is typically deployed outdoors. Site the equipment should pay attention to the following factors:

Visibility environment:	Choose a flat, open highland or building rooftop, ensuring a 360° unobstructed view for the antenna placement.
Electromagnetic environment:	Avoid electromagnetic interference zones such as microwave stations, radio transmission towers, and high-voltage power line crossings, as well as areas near glass curtain wall clusters and large metal structures (e.g., bridges, transmission towers).
Natural environment:	● Avoid the wind to reduce the equipment antenna wind load. ● When deploying in thunderstorm-prone areas, avoid locations susceptible to water accumulation and lightning strikes.
Electrical Environment:	Avoid areas near electrified railways, base stations, or any other sources prone to signal interference.
Infrastructure:	Ensure the site has mains power access and supports connection to public or dedicated communication networks.

3 Deploy the Device

3.1 Connect Antennas

1. Connect the two radio signal receiving antennas to the corresponding ports on the main unit by turning them clockwise, and tighten securely.



3.2 Power On / Power Off

1. The antennas must be installed before powering on the device.
2. Press and hold the power button on the left side of the device to power it on.



Charging the device while it is off will trigger the device to power on, which is a normal behavior.

3. Press and hold the power button on the left side of the device to power it off. The screen will turn off when the device is powered down.

3.3 Drone Detection

Once powered on, the device enters its working state. When a drone is detected, the screen displays the number of detection, drone ID, frequency, direction, distance, and altitude, as shown below:



1/3: 1 (current displayed drone) / 3 (total detections)	188NE: Drone direction
DJI 123456: Drone ID	1.2km: Drone distance
2.4G: Frequency of the detected drone	20m: Drone altitude

3.4 Switch Multi-Drone Display

If the device detects more than one drone, press the power button twice to switch to the display interface of other drones.

3.5 Sound and Vibration On/Off

When the device detects a drone, it will trigger an alarm sound or vibration. Press the power button once to turn off the sound or vibration.

Pressing it again will not reactivate the sound or vibration. If a new drone is detected, the sound or vibration alarm will be triggered again.

3.6 Charge

The device is equipped with a built-in battery and features a Type-C charging port on the bottom for charging.

3.7 Reset the Device

1. If the device is unresponsive, locate the reset button hole marked in blue in the following figure.



2. Insert an ejector pin into the hole to press the reset button and force the device to restart.



4 APP Usage

4.1 APP Installation

The APP that accompanies the device can be downloaded and installed from the app store by scanning the QR code below.



The APP icon is as below:



4.2 APP Authorization

After installation, the first time enter the APP, two authorization request will be prompted. The first prompt is for location authorization, and the second is for Bluetooth authorization (the second prompt may appear twice for Bluetooth authorization, which is normal as it involves two different Bluetooth authorizations).

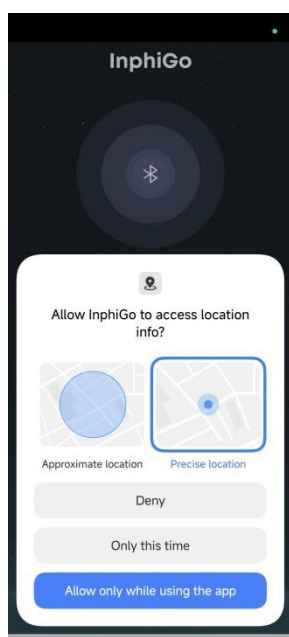


Figure 1. Location Authorization

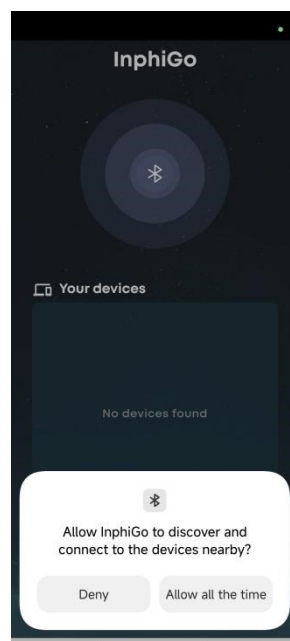


Figure 2. Bluetooth Authorization

4.3 Device Scanning

After authorization, the APP will automatically scan for nearby devices. Scanned devices will be displayed in the list below. If no devices are found, ensure the device is powered on or click the “Rescan” button to rescan.

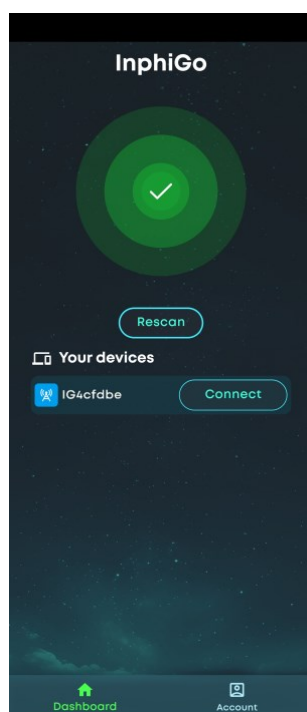


Figure 3. Rescan

4.4 Bluetooth Connection

After scanning the device, click “Connect” to pair the device via Bluetooth. Click “Pair” to initiate pairing. The InphiGo P1 will display a pairing code for a few seconds. Enter this code into the APP to successfully connect.

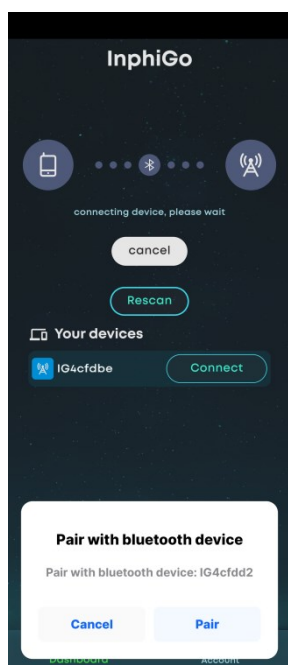


Figure 4. Bluetooth Pairing

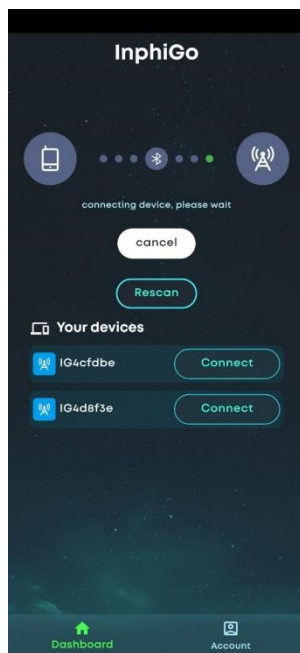


Figure 5. Connecting

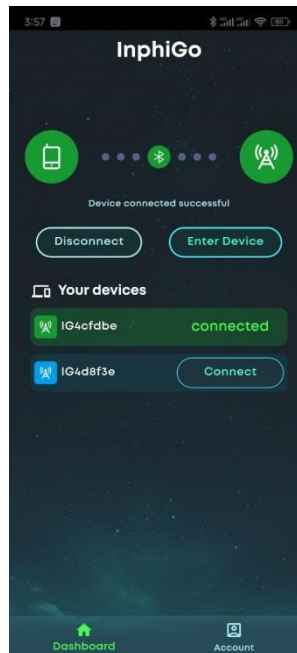


Figure 6. Connection Successful

4.5 Map Operations

After a successful connection, click “Enter Device” to access the map interface. View the location information of detected drones in the map interface. The four buttons in the map interface are: return to center, zoom in, zoom out, and switch.

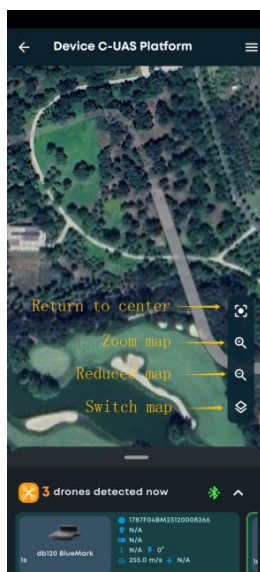


Figure 7. Map Interface

Access the menu interface, in the upper right corner of the map interface. From the menu, the user can navigate to the device information, historical events, and settings interfaces.

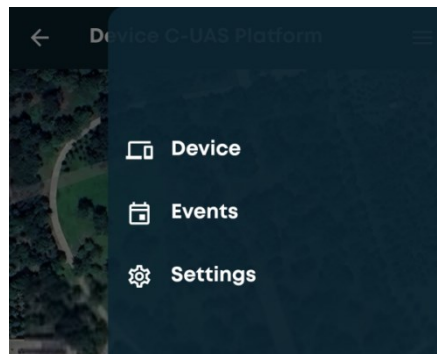


Figure 8. Menu Interface

4.6 Device Information Interface

Enter the first item in the menu to view the device name, product model, serial number, firmware version, hardware version, manufacturer, and battery level of the currently connected device.

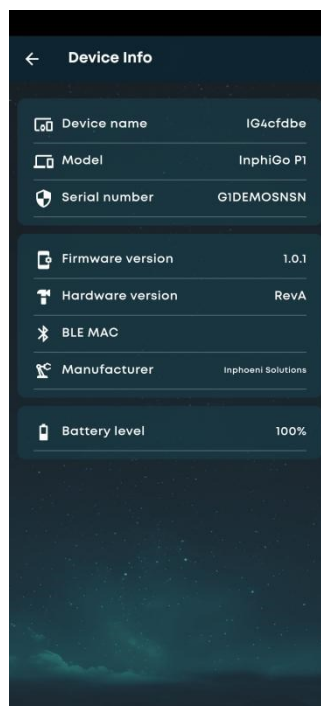


Figure 9. Device Information Interface

4.7 Historical Events Interface

The second item in the menu is the historical events interface. This interface requires a logged-in account to view complete information. Logging in to view historical drone detection information in this interface (the data shown in the figure is test data).

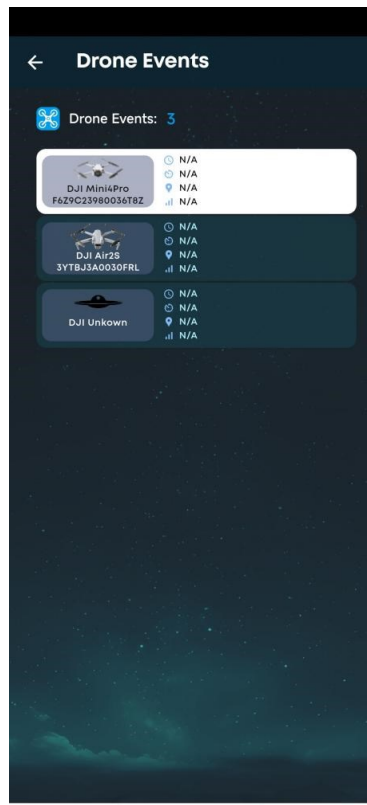


Figure 10. Historical Events Interface

4.8 Settings Interface

The third item in the menu is the settings interface, where perform the following operations:

- (1) Modify the device name of the currently connected device

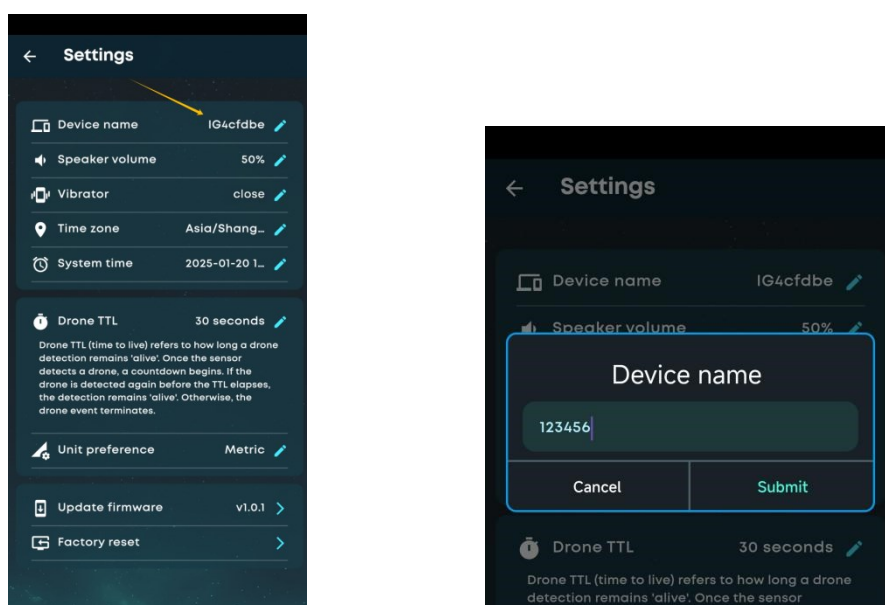


Figure 11. Modify Device Name

- (2) Adjust the alarm sound volume of the current device by sliding to adjust the volume level

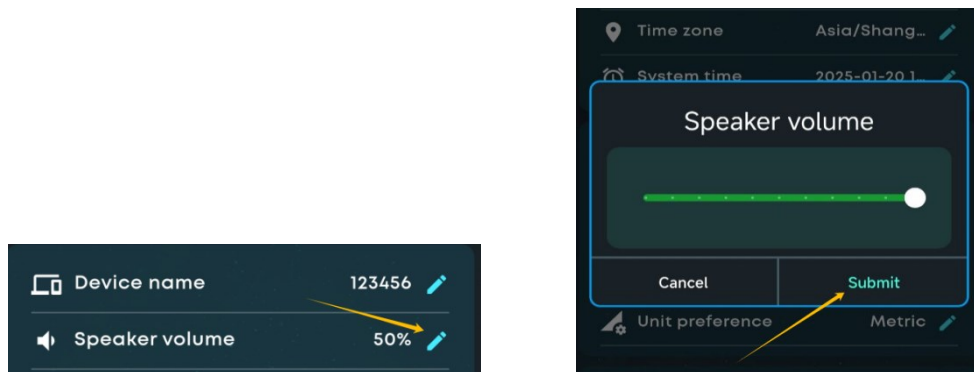


Figure 12. Adjust Alarm Volume

- (3) Adjust the alarm vibration switch of the current device. When vibration is enabled, the device will vibrate upon detecting a drone. Press the power button to temporarily disable vibration, which will reactivate upon the next drone detection. When vibration is disabled, the device will not vibrate.

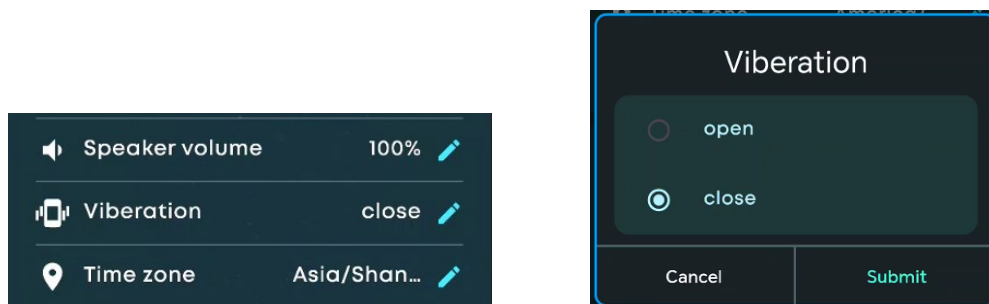


Figure 13. Set Vibration Switch

- (4) Modify the time zone. After successful modification, the InphiGo P1 device will synchronize with the APP's time zone.

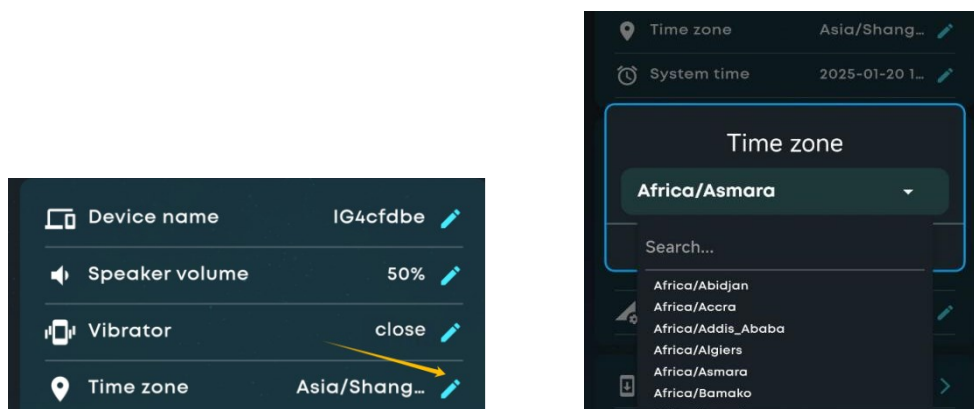


Figure 14. Modify Time Zone

- (5) Synchronize the system time. Click Sync time to synchronize the time. After successful synchronization, the InphiGo P1 device and APP will have the same time.



Figure 15. Synchronize System Time

- (6) Modify the drone detection timeout period. After the detected drone signal disappears, the InphiGo P1 device will stop displaying the drone information after this period.

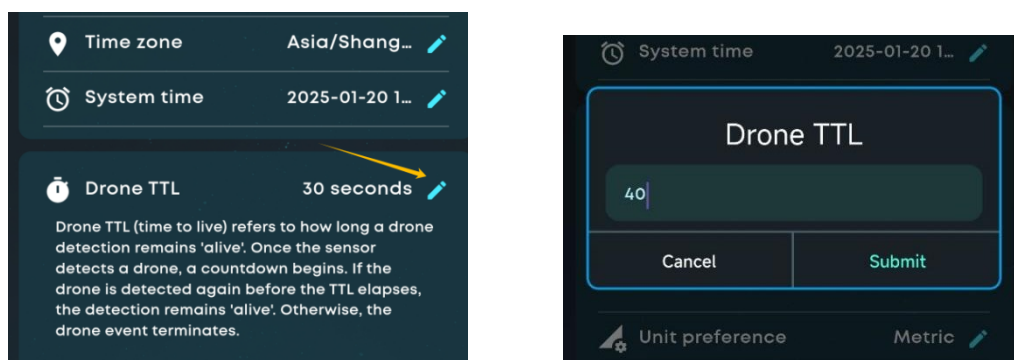


Figure 16. Modify Timeout Period

- (7) Modify the speed display unit to metric (m/s) or imperial (ft/s)

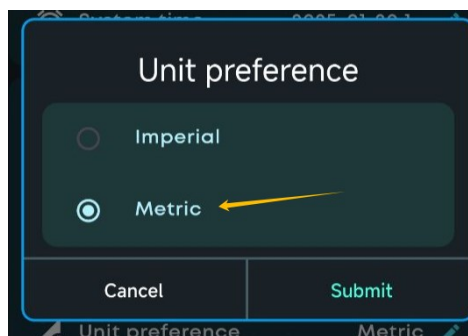


Figure 17. Modify Speed Unit

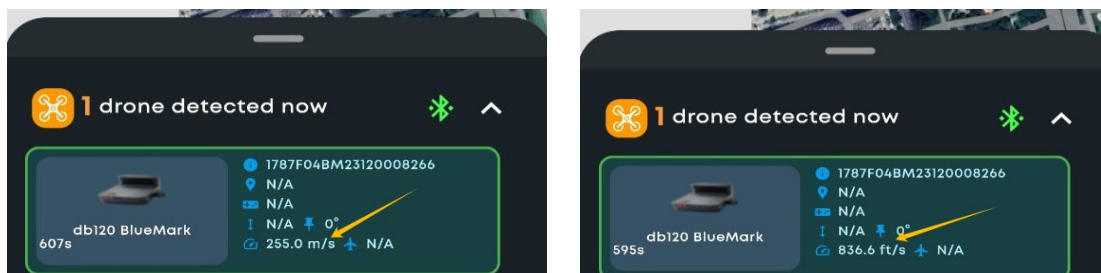


Figure 18. Unit

- (8) Update the device firmware version. If a new firmware version is available, click “Check updates”, then use the file manager to locate the new firmware package (with a .bin extension) and select it to upgrade.

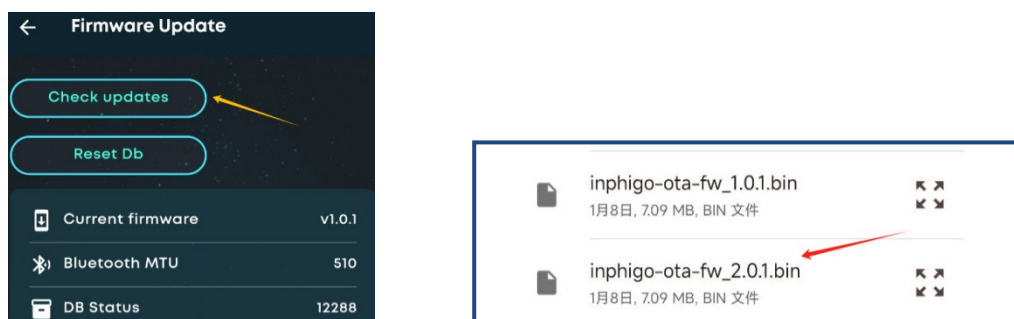


Figure 19. Firmware Update

- (9) Factory reset. This will reset the device name and Bluetooth connection. After resetting, the APP will need to reconnect to the device via Bluetooth.

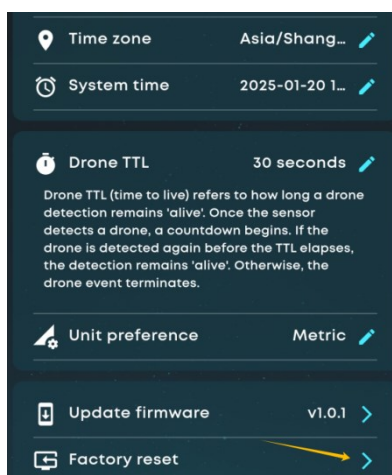


Figure 20. Reset

4.9 Account Registration and Login

The APP can be used without registering, but it will not be able to view complete historical events.

Registration process: On the main interface ACCOUNT page, click “Sign Up” to enter the registration page. Enter email and password, then click “send code” to receive a verification code via email. After entering the verification code, click “submit” to complete registration. Then log in to the APP using this account.



The APP supports login via Inphoeni Cloud Account.

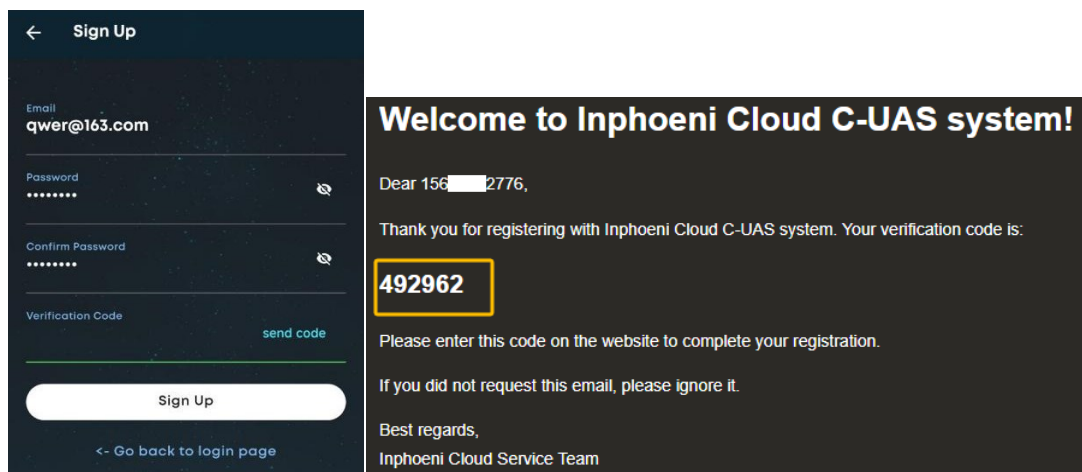


Figure 21. Account Registration

4.10 Reset Account Password

Click “Forgot your password?” on the login interface to enter the password reset page. Then reset account password via email.

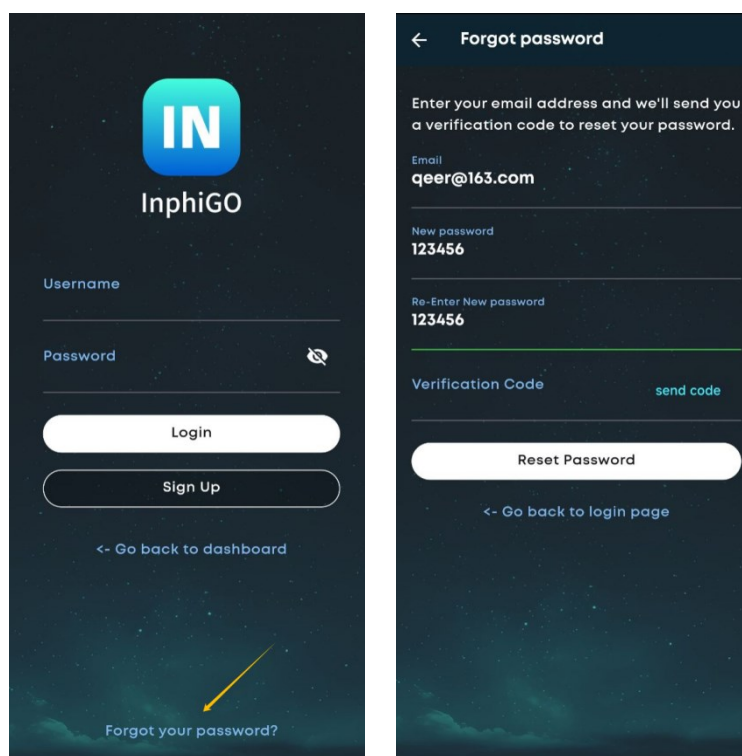


Figure 22. Reset Account Password

5 Equipment Maintenance

To ensure stable operation of the equipment, please comply with the following maintenance specifications.

5.1 Routine Maintenance

Maintenance Type	Maintenance Method
Interface protection	Seal unused interfaces with protective covers.
Cable maintenance	● Do not replace antennas without authorization after deployment. ● Ensure cables and interfaces are fully engaged and securely locked. ● Immediately replace any feeder/power/Ethernet cables with damaged jackets or exposed wires. ● Ensure plug pins are not bent or damaged.
Power inspection	Verify that the device is powered normally.

5.2 Basic Troubleshooting

Fault Type	Troubleshooting Method
Power-related fault	● Power off the device, wait for 30 seconds, and then restart it.
Network disconnection	If using Wi-Fi connection, try reconnecting or switching to another available network.
System Process Exception	Log in to the "Device" interface to check the process status of the controller, engine, and sensors.

If the issue persists, contact our technical support team.



Unauthorized personnel or non-designated maintenance personnel are prohibited from disassembling the chassis.

6 Packaging, Transportation and Storage

The equipment shall comply with the following requirements for packaging, transportation, and storage:

6.1 Packaging

The packing boxes shall be moisture-proof and shock-proof, and contain the following items:

- Delivery list
- Product Inspection Certificate
- User manual.

6.2 Transportation

In the process of transportation, avoid throwing, sun and rain, avoid mixing corrosive substances.

6.3 Storage

The storage shall meet the following requirements:

- Products should be stored in a cool, ventilated, dry warehouse.
- Do not put together with oil, away from heat sources.
- Stacking should be 20cm from the ground and 20cm from the wall.