

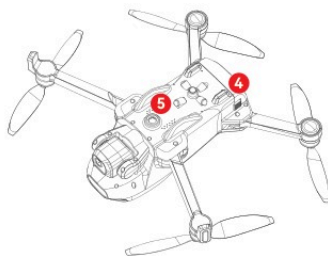
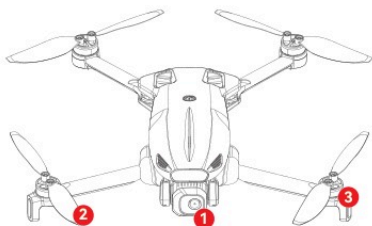
GT7 User Manual



Scan the QR code to watch the tutorial video

Aircraft

1. Aircraft Component Names

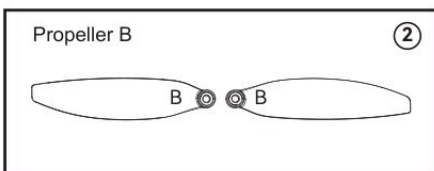
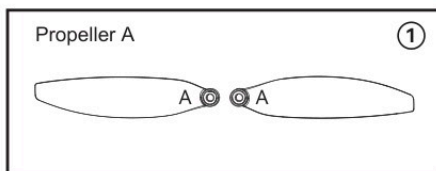


1. Adjustable Lens 2. Propeller 3. Motor 4. Lithium Battery 5. Bottom Optical Flow Lens

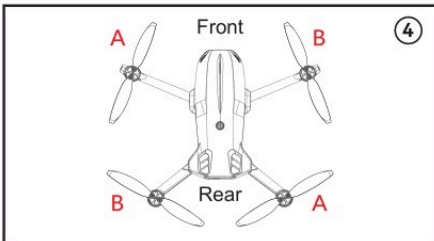
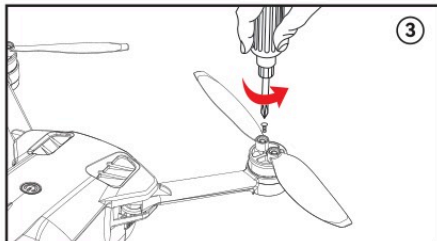
2. Propeller Installation

This product uses two types of propellers: Type A and Type B. If damaged, please replace them with the spare propellers included in the accessory kit.

⚠ (1) During initial installation, please carefully distinguish between the propeller models.



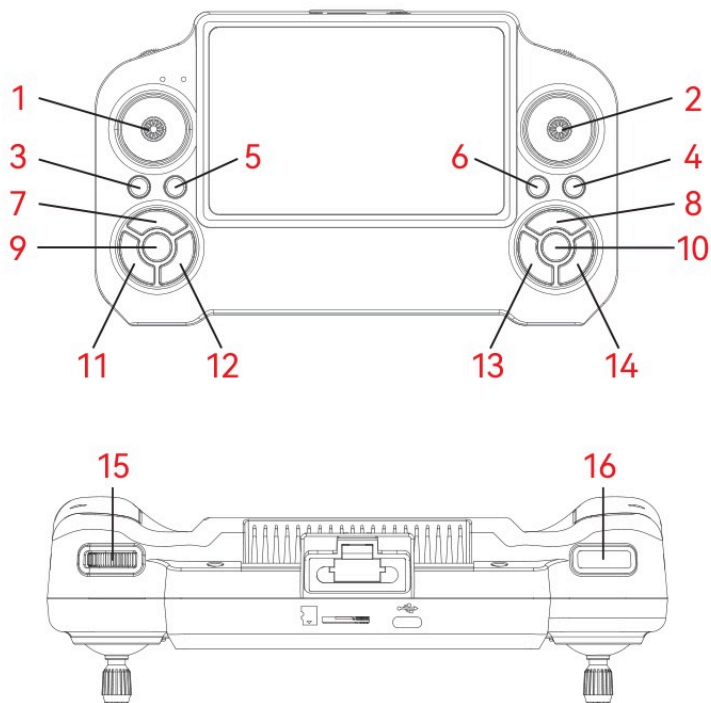
⚠ (2) Refer to Figure 3. Use the provided screwdriver to unscrew the screw holding the propeller to be replaced, remove the original propeller, install the new propeller, and retighten the screw.



⚠ (3) Refer to Figure 4 to verify that the propeller model on the aircraft matches the illustration. Install the propeller in the correct position; otherwise, the aircraft will not fly properly.

Remote Control

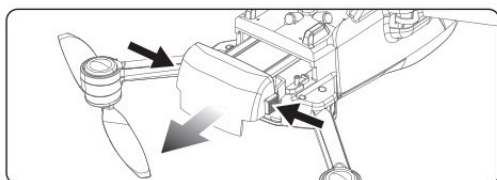
1. Remote Control Functions



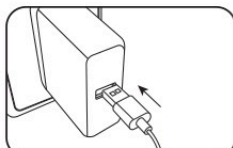
- | | | | |
|--|---|--------------------|-----------------------|
| 1. Throttle Stick | 5. Magnetic Calibration | 9. Power | 13. Scroll Up |
| 2. Steering Stick | 6. Tap briefly to take a photo / Press and hold to record a video | 10. Menu/Play | 14. Scroll Down |
| 3. Short press: Gyro Calibration / Long press: Headless Mode | 7. Unlock | 11. Return to Home | 15. Camera Adjustment |
| 4. Obstacle Avoidance Mode | 8. Back | 12. GPS On/Off | 16. Speed Adjustment |

Lithium Battery

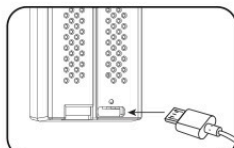
1. Charging the Aircraft Battery and Remote Control



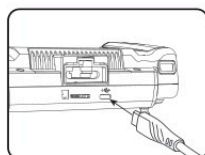
Press and hold the latches on both sides of the battery to remove it from the aircraft.



Smartphone Adapter: 5V,
1A-2A
(You need to purchase it
separately)

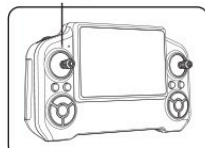


Charging time: Approximately
360 minutes
(We recommend using the
original charging cable)



Connect the remote control to a power
source using the original USB
charging cable to charge it.

Indicator Light



The remote control's indicator light
turns red during charging and turns off
when fully charged.

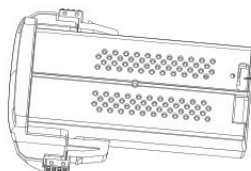
2. Lithium Battery Charging Instructions

1. Charging: The battery indicator light turns red during charging and turns off when fully charged.
2. You can use a power bank or a car charger to charge the battery.
3. The drone's lithium battery takes approximately 360 minutes to charge and provides approximately 32 minutes of flight time.
4. The remote control uses a lithium battery, which takes approximately 180 minutes to charge; during charging, the charging indicator light stays on; it turns off when fully charged.

Precautions During Charging:

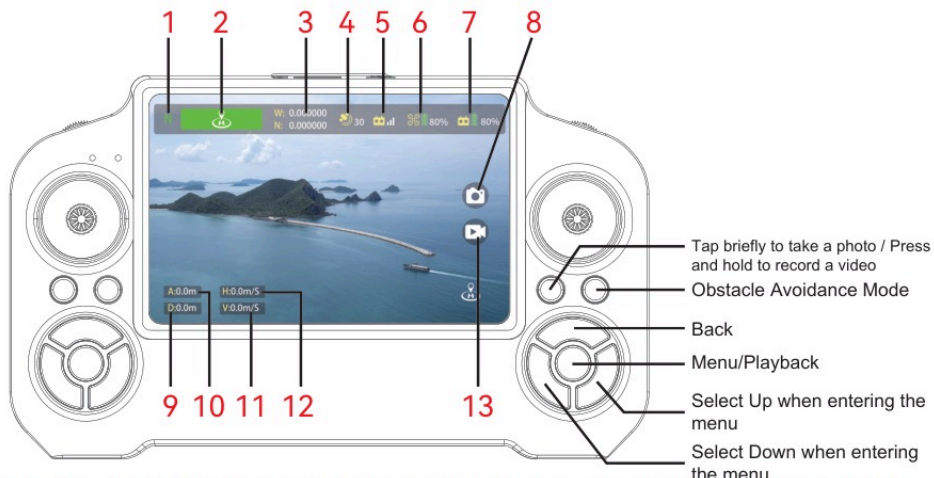
- ※ Never place a charged battery in a high-temperature or heated area, such as near an open flame or electric heating device, as this may cause damage or an explosion.
- ※ Never drop or strike the battery against a hard surface.
- ※ Never submerge the battery in water; store it in a dry place.
- ※ Do not leave the area while the battery is charging.
- ※ Do not disassemble the battery.

3. Aircraft Lithium Battery



Type-C Port

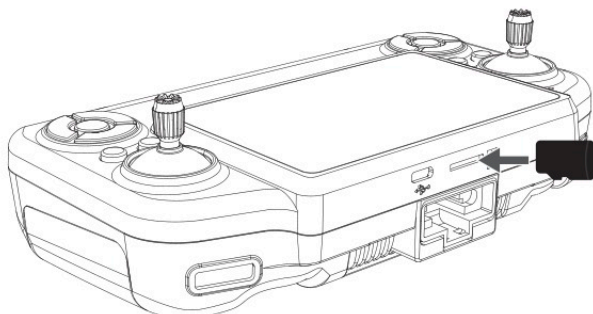
LCD Screen Features



Press the Menu button to view photos, video files, or access system settings. Once you have finished viewing or configuring settings, press the Back button to return to the main screen.

1. Speed Level: Displays the current speed level of the drone.
2. Flight Status/Mode: Displays the drone's current flight mode and status.
3. Latitude and Longitude: Displays the current latitude and longitude of the drone's flight.
4. Number of Satellites: Displays the number of satellites currently detected by the drone.
5. Remote Controller Signal: Displays the current signal strength of the remote controller.
6. Drone Battery Level: Displays the drone's current remaining battery level.
7. Remote Controller Battery Level: Displays the remote controller's current remaining battery level.
8. Photo Mode: Displays the drone's current photo mode status.
9. Distance Information: Displays the drone's current distance data.
10. Altitude Information: Displays the drone's current altitude data.
11. Horizontal Speed: Displays the drone's current horizontal speed.
12. Vertical Speed: Displays the drone's current vertical speed.
13. Video Recording Status: Displays the drone's current video recording status.

Installing the Memory Card in the Remote Controller



1. You can only use the photo and video recording functions when the screen is on and the drone is in flight mode.
2. You can only save photos and videos after inserting a memory card into the remote controller.

Note: Insert the memory card first, then turn on the remote controller.

Flight Operation Guide

Due to the large size of this drone, we recommend that you use this product outdoors only to avoid unnecessary loss or damage.

Step 1: Turn on the drone; the remote control's power indicator light will flash slowly

The remote control will automatically pair with the drone. When pairing is complete, the remote control's power indicator light will flash red slowly.



Step 2: Turn on the drone and place it on a level surface

—At this point, the drone placed on a level surface will automatically enter pairing mode.

Before pairing:

Front arm light: Green — slow flashing,

Rear arm light: Red — slow flashing.

—Remote control pairing successful:

Front arm light: Green — steady,

Rear arm light: Red — slow flashing.



Step 3: Level the aircraft

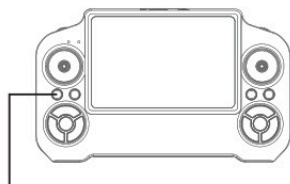
— Briefly press the gyro calibration button

— The lights on all four arms of the aircraft: Flash rapidly,

After calibration is complete, they will change to:

Front arm light: Green — Steady,

Rear arm light: Red — Slow flash.



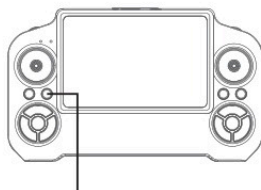
Press the gyro calibration button briefly



Important Note: Be sure to place the drone on a level surface when performing level calibration; otherwise, flight attitude will be affected.

Step 4: Geomagnetic Calibration

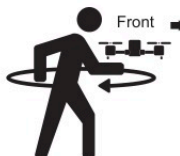
—Press the geomagnetic calibration button briefly to enter geomagnetic calibration mode.
All four arm lights on the drone: Red and green lights flash slowly simultaneously.



Short press to calibrate the magnetometer

Step 5: Geomagnetic Horizontal Calibration—Part 1

—Pick up the aircraft horizontally and, while holding it, rotate your body completely in a full circle (360°); the remote controller will emit a “beep.”
—Front arm light: green — steady on,
Rear arm light: red — slow flashing.



Step 6: Geomagnetic Vertical Calibration—Part Two

—Hold the drone nose-down and rotate it completely around your body (360°); the remote controller will emit a “beep.”
—The drone's lights will change to:
Front arm lights: green — steady,
Rear arm lights: red — fast flashing.
—The rear arm light changes from fast flashing to slow flashing, indicating that geomagnetic calibration is complete.



Step 7: GPS Satellite Acquisition Successful

—Place the aircraft back on a level surface outdoors.
—Wait for satellite acquisition.
—This step takes a few minutes to complete.
—When satellite acquisition is complete, the remote controller will beep once.
Aircraft light status:
Arm lights: All four arm lights — steady on.
Note: Ensure that at least 8 GPS satellites are acquired before takeoff.



GPS satellites



Precautions: Please search for GPS signals in an open area; GPS signals cannot be acquired indoors or under structures such as metal-sheet buildings.



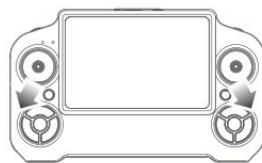
Important: When the drone returns to home due to low battery, the body lights will flash slowly; when the battery is low but still capable of takeoff, the lights will flash rapidly.



Enable obstacle avoidance: All four arm lights will flash simultaneously.

Step 8: Motor Unlock

- Push the throttle and steering sticks on the remote control outward and downward (as shown in the figure).
- The motor will automatically unlock and start; simply push the throttle stick to take off.
- To cancel the motor unlock: Pull the throttle stick down for 2 seconds to cancel the motor unlock.



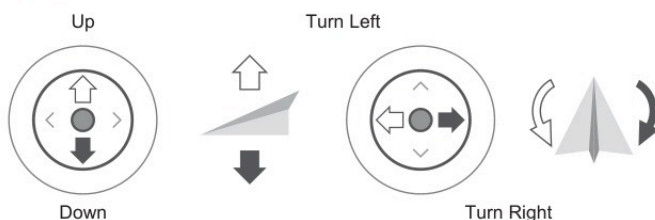
Throttle Control Stick Steering Control Stick



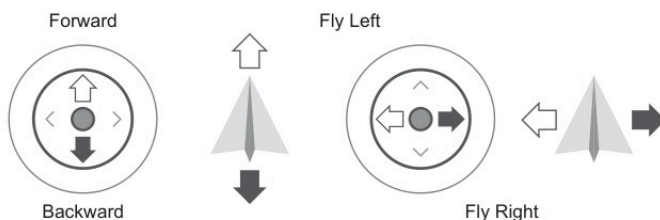
Tip: When the remote control battery is low, the battery icon will flash. At this point, please stop flying as soon as possible and recharge the remote control.

2. Remote Control Operation Guide

Throttle Control Stick

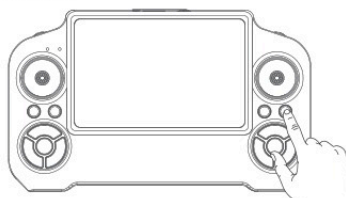


Steering Control Stick



Obstacle Avoidance Mode Instructions

After the drone takes off, press the "Obstacle Avoidance Mode" button. The light on the bottom of the drone will begin to flash slowly, indicating that Obstacle Avoidance Mode is active. At this point, if you move the control stick in any direction, the drone's obstacle avoidance sensors will automatically detect whether there are any obstacles in that direction. If obstacles are detected, the drone will not be able to fly in that direction.



Obstacle Avoidance Mode

Analysis of Drone Functions

1. GPS Return-to-Home

The GPS Return-to-Home (RTH) function allows the drone to return to its takeoff point.

This function is only available in GPS mode.

The drone offers three types of Return-to-Home (RTH): GPS RTH / Low Battery RTH / No Signal RTH

① GPS Return-to-Home:



Press and hold the () button on the remote control or the mobile app interface briefly; the remote control will begin to emit a “beep-beep” sound. The drone will automatically return to the vertical position above the takeoff point and then slowly descend to the takeoff point. Press the () button again to stop the return-to-home process, or manually lower the throttle and steering sticks to guide the drone to a safe landing area.

② Low Battery Return:

Low Battery Return is triggered when the battery level is low.

When Low Battery Return is activated, the drone will automatically return to a position approximately 20 meters above the operator, at which point the operator can manually control the drone. You can also pull back on the throttle stick to land the drone in a safe location.

When the battery is completely depleted, the drone will automatically return to the takeoff point.



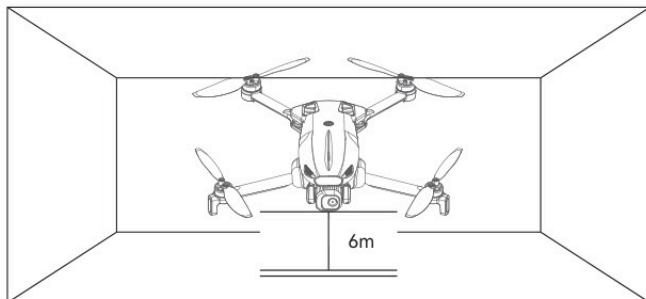
(Note: Do not push the directional stick forward when entering the low battery return-to-home mode. Doing so will disable the return-to-home function, putting the aircraft at risk of being lost.)

③ No-Signal Return-to-Home:

If the connection between the aircraft and the remote controller is lost, the aircraft will automatically enter Return-to-Home mode. The aircraft will automatically return to and land at the takeoff point. During the return flight, the aircraft will automatically attempt to re-pair with the remote controller. If the connection is successful, the operator can resume control of the aircraft.

2. Optical Flow Positioning

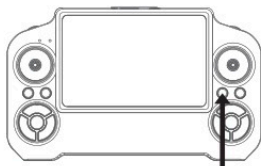
The drone is equipped with optical flow positioning, which allows it to hover steadily at low altitudes.



Note:

1. Optical flow positioning is designed to assist flight in environments with sufficient ambient light and rich textures; it cannot completely replace the user's judgment. Please pay attention to the drone's status and app prompts, and do not rely excessively on optical flow positioning.
2. Optical flow positioning may perform poorly or fail in scenarios such as excessively bright or dim lighting, mirror-like surfaces, smooth surfaces with solid colors, water surfaces, reflective surfaces, or surfaces with sparse textures.
3. The optimal operating range for optical flow positioning is between 0.5 and 6 meters. Outside this range, positioning accuracy may be compromised; please fly with caution.
4. Ensure the optical flow positioning lens is clear, free of smudges, and unobstructed.

3. Camera Function Guide



To operate, press the button briefly to take a photo or hold it down to record video



Take a Photo

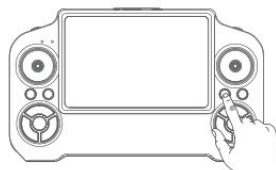


Record Video

Icons on the App

Remote Control

- ① Briefly press the button on the remote control (as shown in the figure on the right). When "OK" appears on the remote's display, it indicates that a photo has been taken.
- ② Hold down the button on the remote control (as shown in the figure on the right). When "Timing" appears on the remote's display, it indicates that video recording is in progress. (You cannot take photos while recording video.)



APP

- ① Tap the () button on the app interface to take a photo.
- ② Tap the () button on the app interface to start recording. (You cannot take photos while recording.)

4. GPS Mode / No GPS Mode (Switch to No GPS Mode for Indoor Flight)



In environments with poor GPS signal reception—such as indoors or in complex environments—if the drone cannot acquire a GPS satellite signal for an extended period, you can press and hold the GPS button on the remote control for 3 seconds to disable GPS mode. The remote control will emit a “beep,” and the drone will enter Indoor Mode, allowing you to take off; however, all GPS functions will be disabled.



Press and hold the GPS button for 3 seconds to disable GPS mode

The remote control indicator light remains solid red

GPS Mode

In GPS mode, the drone uses its GPS module for positioning. When GPS mode is enabled, the drone works in conjunction with a barometer to achieve precise stationary hovering at a fixed position and altitude, significantly reducing the difficulty for the pilot to operate the drone. Additionally, when paired with a ground station system, it enables autonomous flight along predefined routes and transmits the drone's real-time location to the ground station. In environments with poor GPS signal, the drone cannot achieve precise hovering and provides only attitude stabilization; at this time, the drone effectively operates in Attitude Mode.

Attitude Mode

Attitude mode is used when GPS positioning is unavailable; the flight controller provides only attitude stabilization. This mode is commonly used in situations where GPS signals are weak. The drone primarily relies on its IMU (Inertial Measurement Unit—comprising a barometer, gyroscopes, and accelerometers) to determine its state. In this scenario, the drone cannot hover precisely and may drift erratically from side to side, requiring the pilot to constantly correct its position using the remote controller. Therefore, this mode requires the pilot to possess a high level of operational skill. When taking the drone pilot license exam, flights at the Beyond Visual Line of Sight (BVLOS) level must be conducted in attitude mode. The primary purpose is to train drone pilots to develop better piloting skills, enabling them to operate the drone in complex terrain and rescue the aircraft in emergency situations.

APP User Guide

HFun+

- **Helpful Tips**

- **Control Interface**

Control Interface Overview

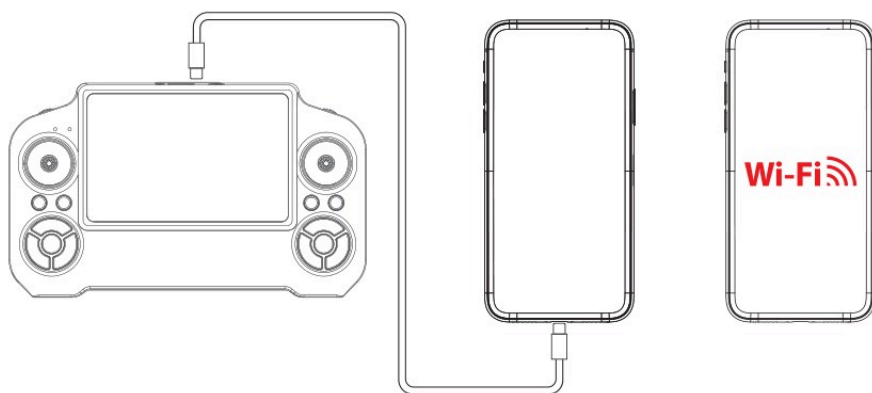
Control Interface Features

Gesture Recognition Feature

- **MV Interface**

MV Interface Overview

APP User Guide



Two connection methods: one is to connect directly via your phone's Wi-Fi, and the other is to connect your phone via a data cable; both allow for simultaneous data transfer.

Software Installation Instructions

1. Install the Mobile App

Please scan the QR code below to visit the corresponding website and download the mobile app



ios



Android (China)



Android (International)

2. Connect to the Drone’s Wi-Fi

- 1. Turn on the drone
- 2. In your phone’s “Settings > Wi-Fi,” locate the drone’s hotspot named “HY-GPS-002-”
- 3. Select this hotspot (no password required), and your phone will automatically connect.

 **Note: Your phone’s Wi-Fi must support IEEE 802.11 a/b/g/n/ac, i.e., 5G band WLAN**

3. Recommended Model Configurations

1.ios

Model Specifications	Recommended Specifications	Optimal Specifications (Supports 2K)
Product Model	iPhone 6 and later	iPhone 7 and later
System Version	iOS 8.0 and later	iOS 9.0 and later

2.Android

Model Specifications	Recommended Specifications	Optimal Specifications (Supports 2K)
CPU Model	Snapdragon 630 or higher Samsung Exynos 7420 or higher MediaTek Helio X25 or higher Kirin 950 or higher	Snapdragon 835 or higher Samsung Exynos 8895 or higher MediaTek Helio X30 or higher Kirin 970 or higher
OS Version	Android 5.0 or higher	Android 8.0 or higher
RAM Size	3 GB or higher	6 GB or higher
CPU Usage	Usage at 25% or lower	Usage at 10% or lower

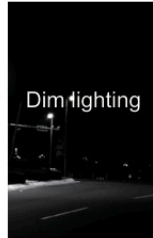
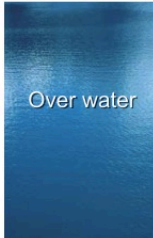
Clearing background processes can effectively reduce CPU usage

Friendly Reminder

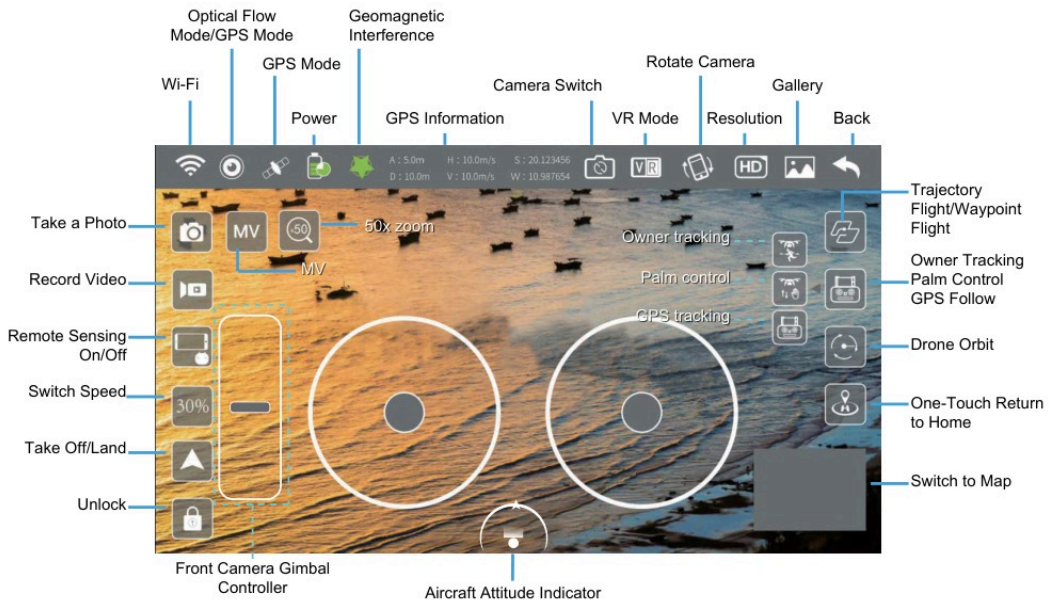
Note: Only one mobile app is allowed to connect to a single drone at a time!



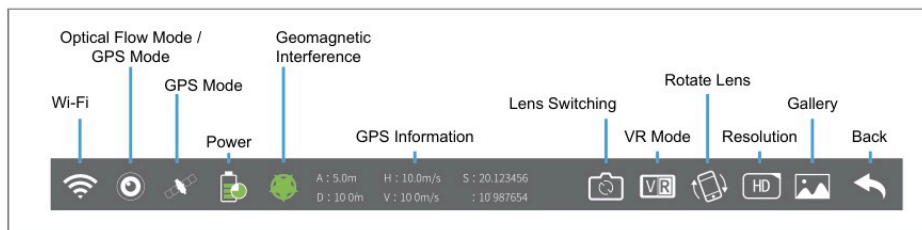
Note: When the drone is in the following environments, the down-facing camera's optical flow-based stationary hovering performance may be compromised, making it difficult for the drone to fly smoothly and potentially causing the drone to shake.



Control Interface Overview



Control Interface Feature Description



Wi-Fi: Displays the strength of the video transmission signal.

Satellite Signal: Indicates the current flight mode and the number of satellites; a flashing light indicates that the drone is currently in Optical Flow Positioning Mode, and functions such as Return-to-Home, Follow, Orbit, and Point-to-Point Flight are unavailable. A steady light indicates that the drone is currently in GPS Mode.

Battery Level: **(Drone battery status)**

(1) 2–4 bars indicate normal battery level; in GPS mode, the Return-to-Home, Follow, Orbit, and Waypoint functions operate normally.

(2) 1 bar (flashing) indicates low battery; the drone will automatically return to the home point. The Follow, Orbit, and Waypoint functions are unavailable when the battery is low.

GPS Signal: Displays the current altitude, distance from the return-to-home point, and corresponding latitude and longitude of the drone.

Camera Switch: Switch between the front and bottom cameras: **(See next page for details)**

VR Mode: Tap to enter VR mode.

Rotate Camera: Tap to rotate the camera.

Resolution: Switch between HD and SD resolutions.

Gallery: View photos and videos.

Multi-Camera Function Description



Switch Cameras

Tap the [Switch Cameras] button to cycle through the following three modes:

(1) Standard front camera; (2) Downward-facing camera; (3)

Picture-in-Picture

If the [Switch Cameras] button is not tapped, the default mode is the standard front camera.

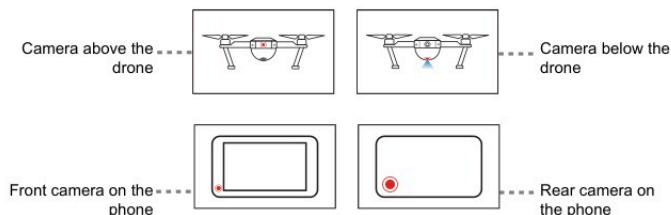
Picture-in-Picture

In Picture-in-Picture mode, you can view real-time video from the drone's downward-facing camera:
on the control page, after tapping to enable Picture-in-Picture, the video feeds from the drone's downward-facing and front-facing cameras will be displayed simultaneously. **(Not supported on 4K Wi-Fi drones)**

• Once Picture-in-Picture is enabled, if you enter MV mode at this time, you can record video from both cameras simultaneously

Multi-Camera Feature Description

Camera Switching and Multi-Camera View



Camera Switching and Multi-Camera View: (Supported on select models)

From the expanded menu, freely switch between the drone's top and bottom cameras, as well as Picture-in-Picture (not supported on 4K camera Wi-Fi drones); and freely combine views with the phone's camera to create custom multi-view layouts.

Album Description

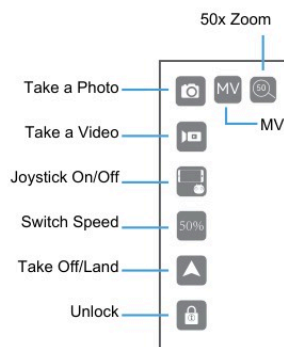
Album -----  Tap the album to view photos and videos, and enter the creation interface.



Select Photos/Videos

Enter the Creation Interface

Control Interface Function Description



Take a Photo: Tap the button to take a photo based on the current camera view (front or bottom).

Video Recording: Tap the button to record video using the current camera (front or bottom).

Joystick On/Off: Tap to switch between phone control and remote control.

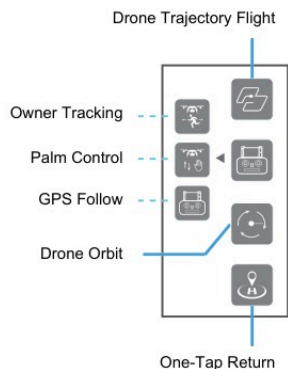
Speed Switch: Displays the current speed setting. In phone control mode, tap to switch between high and low speeds.

Takeoff/Landing: Tap after unlocking to perform one-touch takeoff or one-touch landing. Unlock: After calibration is complete, place the drone horizontally. Tap the unlock button to begin flight operations.

MV: Tap the button to open the MV interface.

50x Zoom: Once enabled, adjust the zoom level by moving the slider on the right. After zooming in, swipe your finger across the screen to move the field of view.

Control Interface Function Descriptions



Waypoint Flight: In GPS mode, the drone will fly according to the locations selected on the map.

Orbit Flight: In Optical Flow mode, the drone will fly according to the selected location. Follow Me: In Optical Flow mode, tap "Follow Me," and the drone will follow the selected person.

Palm Control: In Optical Flow mode, tap [Palm Control], and the drone will follow your palm as you move it up or down.

GPS Follow: In GPS mode, tap this button, and the drone will follow your phone.

Circle Flight: In GPS mode, the drone will circle clockwise or counterclockwise around its current position.

During the circle flight, you can adjust the drone's altitude and direction (forward or backward).

One-Tap Return to Home: In GPS mode, tap this button to return the drone to its takeoff point with a single tap.

Control Interface Function Description

Owner Tracking



(1) In optical flow mode, tap the [Owner Tracking] button; a blue target selection box will appear on the screen.



(2) On the screen, use your finger to tap and select the target person.



(3) Once the target person is locked, the blue box will frame the target person in the center of the screen.

(4) When the drone is approximately 2 meters away from the target person, it will begin tracking flight. If the drone loses track of the target person, you will need to select the target person again.

Tracking performance is optimal when the red box covers more than 80% of the person's silhouette.



Palm Control

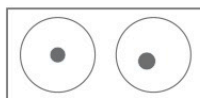
(1) In Optical Flow mode, tap the [Palm Control] button;

(2) Face the drone's camera and hold one hand out flat;

(3) When your palm is enclosed by the red box on the app, move your palm smoothly;

Control performance is optimal when your palm is approximately 1 m away from the camera.

Control Interface Function Description



Joysticks

The left joystick controls the drone's up, down, left, and right movements; the right joystick controls the drone's forward, backward, left, and right movements.



Front Camera Gimbal Controller

After the drone takes off, the front camera gimbal controller will appear on the left side of the screen.

At this point, if you move the slider on the controller upward, the drone's front camera will tilt upward by a certain angle;

if you move the slider downward, the drone's front camera will tilt downward by a certain angle.

Share

Tap the () button in the upper-right corner of the control page to access the photo gallery. When viewing a photo or video, you can tap the () button in the upper-right corner to share it on major social media platforms.

Gesture Recognition

Face the drone's front camera and make the following gesture to trigger the drone's automatic photo or video capture feature:



About 2 meters directly in front of the drone's camera, hold one hand out flat and make a "Yeah" gesture; once the drone successfully recognizes the gesture, a 3-second countdown will begin before the photo is taken.



Hold one hand out flat and make a "Yeah" gesture about 2 meters directly in front of the drone's camera; once the drone successfully recognizes the gesture, a 3-second countdown will begin before the photo is taken.



About 2 meters directly in front of the drone's camera, hold one hand out with all five fingers closed; once the drone successfully recognizes the gesture, video recording will begin. Recognizing the gesture a second time will stop the recording (the total time between the two recognitions must be greater than 3 seconds).

*Friendly Reminder

To ensure a high recognition rate

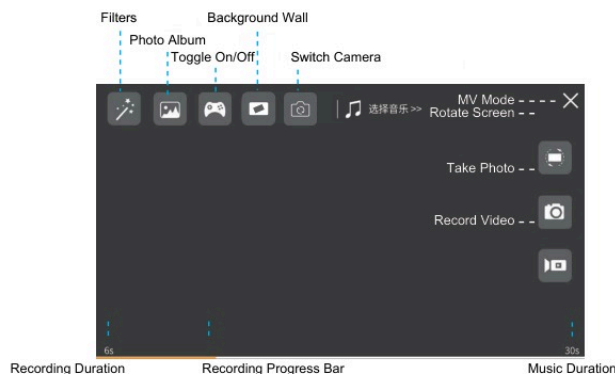
1. Please face the camera directly;
2. Please fly in a well-lit environment;
3. Please perform gesture recognition operations at a distance of approximately 2 meters from the camera.
4. Please ensure your face is directly facing the camera; (Face Assist Feature)

Camera recognition rates may decrease under the following conditions

1. Low light or backlit environments;
2. Weak Wi-Fi signal or signal interference.

MV Interface Overview

Tap the (MV) button in the upper-left corner of the control page to enter the MV interface. In the MV interface, you can record music videos.



Rotate Screen

Tap this button to enable the screen rotation feature. You can then rotate the image by swiping your finger across the screen; double-tapping anywhere on the screen will instantly zoom in on the image (this feature also applies when recording video).