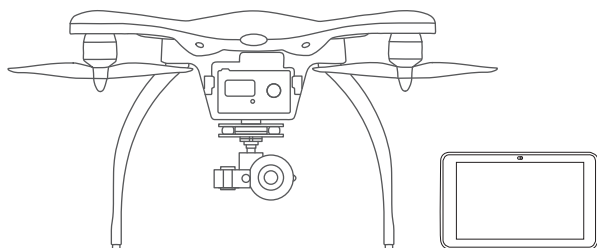


GHOSTDRONE 2.0

LTE OPERATING MANUAL



eHANG | 亿航

GHOSTDRONE 2.0 LTE Operating Manual
includes packing list, assembly, parts
and specification information.

Congratulations on purchasing your new GHOSTDRONE 2.0 LTE!
For customer service and support, please e-mail support@ehang.com
or contact our customer service hotline: 400-800-7056.

www.ehang.com
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Thank you, and enjoy your GHOSTDRONE!

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Business Hour: Monday – Friday 9:00 A.M – 5:00 P.M (CST&Shex)
Customer Service Phone: 400-622-1638
Customer Service Email: service@ehang.com
EHang Intelligent Equipment (Guangzhou) Co., Ltd. reserves the right to interpret this Operating Manual.

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1. WARNINGS

WARNINGS:

Before flying, please consult flight documentation from the International Civil Aviation Organization (ICAO) and local aviation authorities regarding the management of local air space and unmanned aircraft operation. Users are liable for any actions against the national laws due to the violation of relevant regulations and any personal injuries or property damages caused by noncompliance with the instructions and warnings of this manual, and all ensuing legal liability is solely theirs.

1. The drone requires cautious operation during flight. If you are flying your GHOST-DRONE 2.0 LTE for the first time, please fly it in an open area in order to experience its various functions safely.
2. DO NOT fly in restricted air zones .
3. DO NOT fly near obstacles, people, power lines, trees, above waters or any other environments which are not safe for flying.
4. The drone may not fly properly near tall buildings due to GPS interferences. Please fly it in an open area to reduce positioning error.
5. DO NOT fly in or around congested electromagnetic (EM) environments. The drone must be kept at least 200 m (656 ft.) away from strong EM sources, including signal towers and ground stations. EM interference can cause malfunctioning situations such as failure to take off or loss of control.
6. DO NOT fly the drone in inclement weather conditions, including extreme temperatures, heavy snow, strong wind (above force 6), storm or fog.
7. It is recommended to always retain line-of-sight with the drone during flight. Losing sight of the drone may result in accidents.
8. GHOSTDRONE 2.0 LTE is not suitable for use by children or teenagers under 18 years of age.
9. Please make sure your tablet and the drone have sufficient battery before flying.

10. Stand clear of the drone (at least 5m or 16ft) with its head facing away from you when ready to fly. Please keep away from any other unsafe elements (such as obstacles, crowds, power lines, etc.)
11. To avoid injury, DO NOT approach or touch the propellers while they are spinning.
12. Please keep an eye on the real-time battery of your tablet and the drone. We strongly suggest to land the drone when the battery of either device is low.

2. Introduction

Mainly featuring flight planning and cruising flight, GHOSTDRONE 2.0 LTE aims at providing flight solutions for commercial users. The drone can be flexibly mounted with various loads to satisfy the customized requirements from different industries.

For easier operation and control, GHOSTDRONE 2.0 LTE replaces the traditional RC control with the HD tablet-based ground-to-air interaction. The software function of waypoints flight has been optimized and enhanced. And by creatively adopting the 4G technology for remote communication, ultra-distance control has now become feasible. With the 4G communication enabled to realize the central management of remote control, users can set up flexible configurations in the TL (Takeoff & Landing) / OC (Operation & Control) sites.

■ Features

Drone: GHOSTDRONE 2.0 LTE drone body (1), 4G dedicated communication SIM card (1)

Load: spherical camera & gimbal (1)

Ground control devices: 10.6-inch HD tablet (1), 4G dedicated communication SIM card (1)

Ground control software: EHANG Pro

Communication fees: real-time 4G SIM card data usage (for a 10-minute flight, around 100M upstream and downstream data respectively)

■ Waypoints Surveying

Users can control the drone to take off/land with just one tap via the ground control device (10.6-inch tablet).

Tap a point on the tablet map to let the drone fly autonomously towards the destination.

When the drone reaches the destination, users can adjust the parameters, including drone heading, gimbal pitch, etc., via the micro-control function.

Users can keep record of a proper location/flight task by clicking "My Favorite Waypoint" on the tablet.

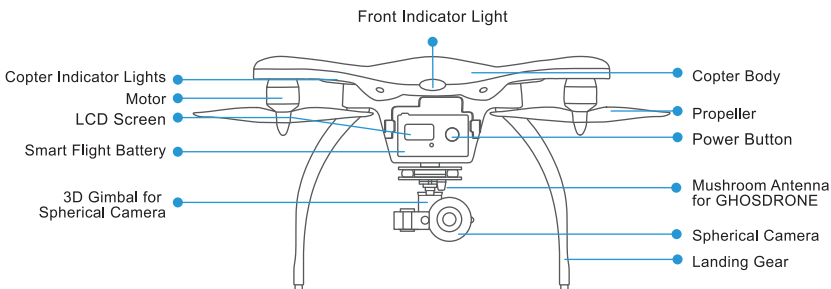
Users can view the real-time transmitted images and flight data on the ground control device. The communication between the drone and the ground control device is totally based on 4G signals transmission. And there are no specific requirements of flight direction, antenna orientation or operation skills in ultra-long-distance flight.

In waypoints surveying, users should try to avoid those areas where 4G signals are poor based on the actual circumstances.

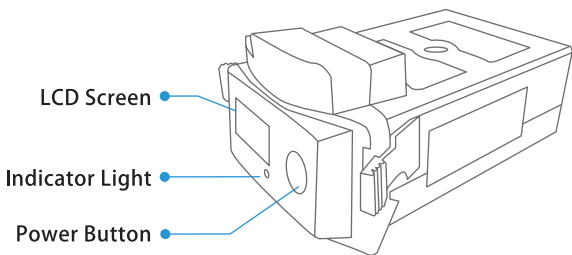
■ Flight Task Implementation

- 1. After planning a complete flight path, users can save the confirmed flight path for further flights.
- 2. The drone can be remotely controlled by the operator in any location within the communication range.
- 3. The operator is able to monitor the drone status via the real-time images and flight data transmitted back to the tablet.
- 4. The communication between the drone and the ground control device is totally based on 4G signals transmission. And there are no specific requirements of flight direction, antenna orientation or operation skills in ultra-long-distance flight.

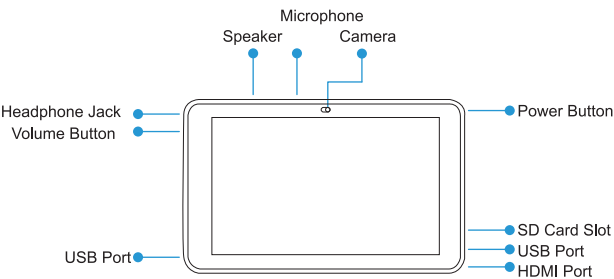
■ GHOSTDRONE Diagram



■ Battery Diagram



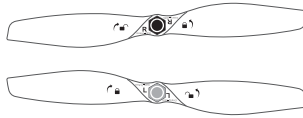
■ Tablet Diagram



3. Assembly


■ Installing/ Removing the Propellers

GHOSTDRONE 2.0 LTE uses 2-bladed 8.5-inch self-tightening propellers. Propeller nuts have two colors, silver and black. Each indicates different rotating directions, and should be installed to the motor shaft with the same color.



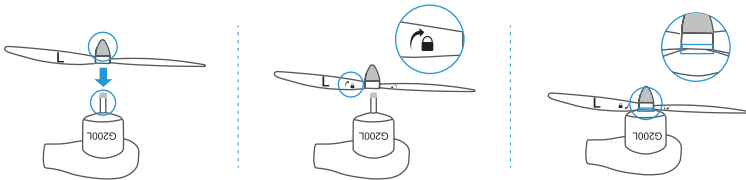
Legends

 Lock: Tighten the propeller in this direction.

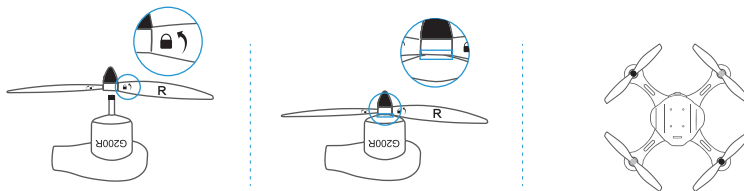
 Unlock: Remove the propeller in this direction.

Installation

1. Put the drone upside down.
2. Match the silver nut propellers with the L motors (with silver motor shaft), and tighten the propellers according to the LOCK instructions.

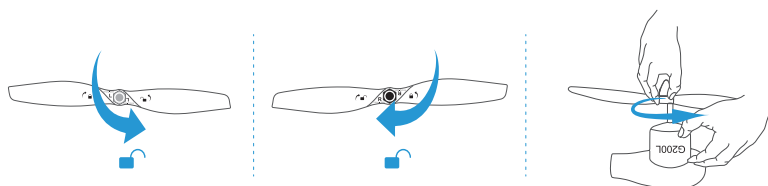


3. Attach the black nut propellers to the R motors in the same way.



Disassembling

Keep the motor deadlocked in place with one hand and remove the propeller according to the UNLOCK instructions.



Warning

1. Check that the propellers are installed correctly and firmly before each flight.
2. It is necessary to check that all propellers are in good condition. DO NOT use any damaged, aged or deformed propellers.
3. To avoid injury, DO NOT approach or touch the propellers or motors while they are spinning. Be careful not to get cut by the thin propeller blades.
4. For a better and safer flight experience, please use original EHang propellers. EHang does not offer warranty for propellers. If you need to replace your propellers, please go to our website www.ehang.com.

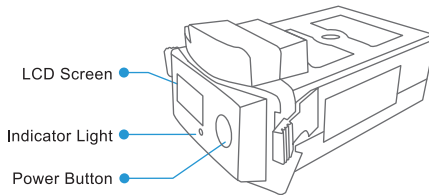
4. Accessories

■ Smart Flight Battery

⚠ Improper use of battery may lead to fire, explosion or other dangers. Please be familiar with the product before using.

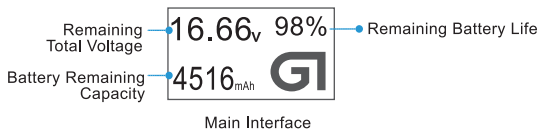
The smart flight battery is specially designed for the GHOSTDRONE 2.0 LTE, with capacity of 4500 mAh, maximum voltage of 17.4 V(Rated voltage:15.2 V), charge-discharge management functionality and a smart display screen. The battery should only be charged by EHang power

Battery Diagram



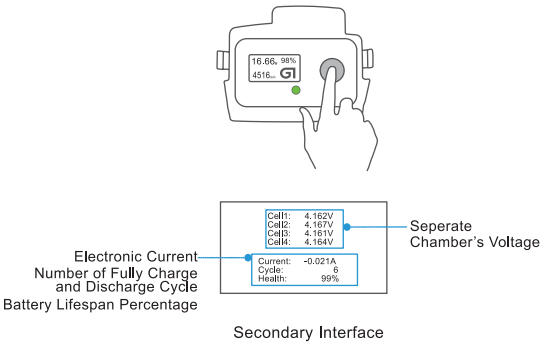
Powering On

Press the power button shortly, then quickly press and hold the button again. Don't release it until the last letter "G" of logo "EHANG" fully appears on the screen. The LED indicator light turns on once the battery is turned on, referring to the diagram below.



Note: When the battery is powered off, press the power button to check the battery life. (Main interface will display for 3 seconds while the LED Indicator light stays off during the whole process.)

After turning on the battery you can enter the battery status interface by clicking the ON button, to return to the main interface click the ON button again.



Powering Off

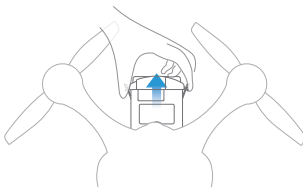
Press the power button shortly, then press and hold again until the '!' of 'SEE YOU !' message disappears on the screen.



Battery Removal & Installation

Remove Battery

Turn off the battery first. Hold the battery handles to remove it from the battery compartment.



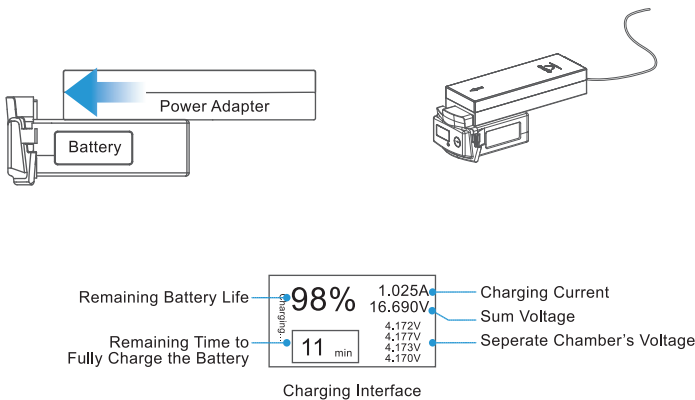
Install Battery

Hold the battery handles and push the battery into the battery compartment until you hear a click.

Note: DO NOT remove or install the battery into the copter when it is powered on, otherwise the battery will be damaged.

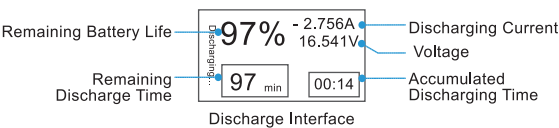
Battery Charging

Connect the battery to the power adapter, and then connect the power adapter to a wall socket (use the plug if necessary). Once connected successfully, the LED indicator light flashes slowly and the screen displays current battery information as below:



Battery Discharging

When the battery is discharging, the LED indicator light stays on and the screen displays as below:



LED Indicator Light Instructions

	Low frequency flash (Green)	Charging
	High frequency flash (Green)	Low battery
	Solid green	Working
	Light off	Standby

Warning

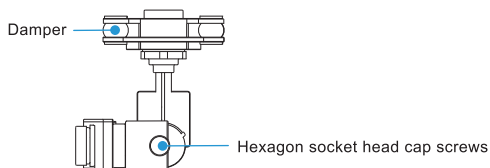
1. Only the EHang power adapter should be used to charge the battery.
2. DO NOT use batteries from other companies for the GHOSTDRONE. EHang is not responsible for any accidents caused by third party batteries.
3. DO NOT use used LiPo batteries. EHang is not responsible for any dangerous accidents caused by used batteries.
4. DO NOT use the battery if it is inflated, damaged or deformed. DO NOT charge or discharge the battery if it is inflated, damaged or deformed.
5. DO NOT plug or unplug the battery into the copter when it is powered on, otherwise the battery will be damaged.
6. DO NOT overcharge the battery. DO NOT "trickle" charge the battery.
7. DO NOT leave the battery unattended when charging for a long time.
8. DO NOT charge or store the battery under direct sunlight. Please store batteries at room temperature. DO NOT store batteries under high or low temperature condition.
9. Recharge the battery only after it cools down to room temperature. Use the charged battery only after it cools down to room temperature.
10. DO NOT use the battery in strong electrostatic or electromagnetic environments, otherwise the electronic protection devices might be damaged leading to dangerous accidents.
11. DO NOT use any conducting wires or any metallic substance that would cause batteries to develop a short circuit.
12. DO NOT attempt to dismantle the battery case. DO NOT attempt to dismantle, pierce or cut a battery.
13. DO NOT discharge the battery below 3.0 V per cell. Ideally you never want to go below 3.2 V per cell to maintain a healthy battery. 2.9 V per cell and lower will cause permanent damage.
14. DO NOT leave the battery sitting around on a full charge for more than 2-3 days. If by the 3rd day you realize you are not going to use your battery, you need to discharge your battery down to 3.6 V-3.8 V per cell for safe storage until you are ready to use the battery again.
15. Depending on how they are used, most LiPo batteries typically do not last longer than 300 charge cycles. Leaving the batteries around on a full or depleted charge all the time, running them completely dead, or exposing them to high temperatures will shorten this lifespan dramatically.
16. Always pack your batteries in your carry-on bag and never in your checked baggage when traveling on an airplane. It's the law.

Storage Instructions

1. The battery should be stored in an environment with the temperature of $23\pm5^{\circ}\text{C}$.
2. The battery must be stored in places away from children, water, fire and metal.
3. Always keep a Class D fire extinguisher near your battery charging/discharging and storage area. The battery charging/discharging and storage area should be free from any materials which can catch fire such as wooden tables, carpets, or gasoline containers. The ideal surfaces for charging and storing batteries are concrete or ceramic.
4. DO NOT use your flight case/travel case for long term battery storage. The foam and plastic in these cases can help spread a fire caused by batteries. Always use a fire proof container such as a metal ammo box or fire proof safe for storage.
5. If the battery is not being used for more than 1 week, keep the battery capacity between 50% to 60%. Charge and discharge the battery once every two months.
6. Do not discard batteries in general household waste. Damaged or unusable batteries must be disposed in containers specially reserved for this purpose. When disposing of batteries, follow appropriate local guidelines and regulations.

■ 3D Gimbal for Spherical Camera

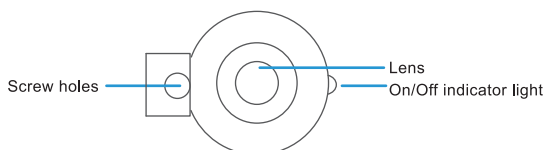
The 3D Gimbal for Spherical camera is equipped with a specialized 3D gimbal. Its ultra-thin motor makes it very light and responsive. The same time, we adopt the bracketing gimbal design that makes the gimbal and the camera more stable.



■ Spherical Camera

Spherical camera is lightweight with a design that tremendously reduces wind friction, especially under air turbulence when maneuvering at high speed. It has low picture deformation and performs well under low illumination conditions.

Spherical camera supports up to 30 frames per second high quality video recording with 4K resolution, and up to 12 mega pixel images. Standard storage is 16 GB Class 10 Micro SD card, and supports up to 64 GB. Micro SD card with Class 10, UHS-1 or higher is recommended to support high speed video data storage.



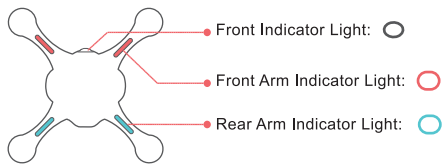
How to use the camera

You can control the camera's start and stop recording in the flying interface of the EHANG PRO. Click the camera recording icon once to start recording and click again to stop. You can also take photos by clicking the photo button located next to the recording button (Note: Photos cannot be taken while the camera is recording).

Copter Indicator Lights Instructions

On GHOSTDRONE 2.0, there are four arm indicator lights and one front indicator light. The front indicator light displays multiple colors; the two front arm indicator lights display red; and the rear two lights display blue.

The following chart describes the display status of the lights and their corresponding explanation.



Legend

High Frequency

Low Frequency Flash

Solid

Front Indicator Light	Arm Indicator Light	Descriptions
After powering on, front indicator light shows in white solid color then flashes in blue and green at high frequency until stop	→	Initializing.
Flashes in yellow and blue at low frequency alternately		Control signal not receive.
High frequency flash (red)		Unlock check failed, do not unlock.
Low frequency flash (yellow)		GPS is not 3D locked. Unlock is only accessible in manual mode.
Low frequency flash (blue)		GPS is 3D locked. Ready to unlock.
Solid yellow		GPS is not 3D locked. Unlock successful.
Solid green		GPS is 3D locked. Unlock successful.
Low frequency flash (yellow)		Low battery. (Not related to unlock or not.)

Aircraft Indicator Light Status Information Chart

Terminologies


3D Lock: Lock copter's current three-dimension location using GPS.

High Frequency Flash: Flash rapidly.

Low Frequency Flash: Flash slowly.

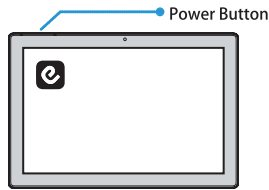
■ Tablet & Portable Wi-Fi

Turning On Your Tablet

1. Press and hold the Power button  for 2 seconds to turn on your tablet.
2. If the lock screen image displays, swipe your finger from the bottom of the display to switch to the login screen, and then enter the passwords to log in to Windows.

Locking the Screen

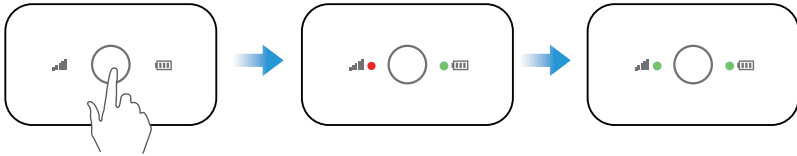
Shortly press the Power button  once to lock the screen.



Portable Wi-Fi

Press and hold the Power button for 5 seconds to turn on the portable Wi-Fi. The indicator light will turn to solid green.

Turn on the tablet and search the Wi-Fi name, then enter the password to connect.



Press and hold the power button for 5 seconds

The indicator light turns solid red when searching signals

Successfully powered on when the indicator light turns solid green

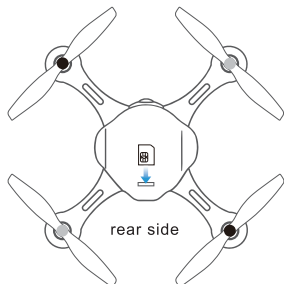
Note: The name and password of the Wi-Fi is enclosed on the back of the device.



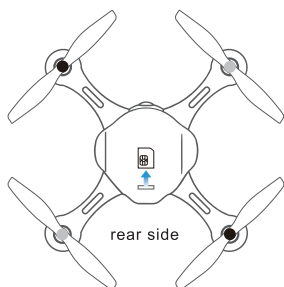
■ SIM Card Installation/Removal

The SIM card slot is located in the drone bottom on the rear side.

As shown below, gently insert the SIM card into the slot, then press to firmly secure it.



As shown below, apply a small amount of pressure until the SIM card pops out from the slot, then gently remove it.




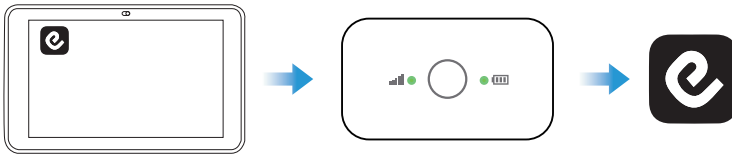
5. Connecting Devices

■ Turning on Your Drone

- (1) Place the drone on a flat surface.
- (2) Press the power button shortly, then quickly (within less than 3s) press and hold the button again. Don't release it until the last letter "G" of logo "EHANG" fully appears on the screen. When the drone lets out a "DIDI" prompt tone and the LED indicator light turns on, it means the drone has been successfully turned on.

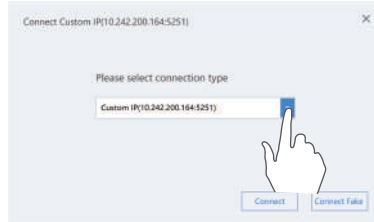
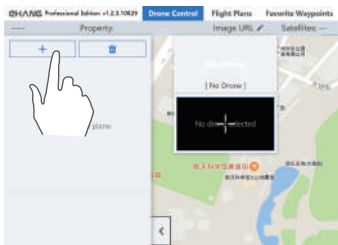
■ Turning on Your Tablet, portable Wi-Fi and Running the EHANG Pro Software

- (1) Press and hold the Power button  for 2 seconds to turn on the tablet.
- (2) Power on the portable Wi-Fi, search the Wi-Fi name and enter the password.
- (3) Tap the "EHANG Pro" icon on the desktop to enter the main interface of the software.



■ Connecting the Drone

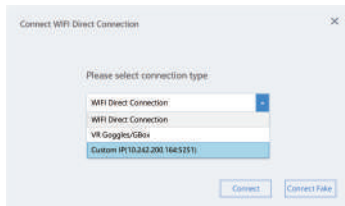
- (1) Click "+" to connect the drone.
- (2) Click the Dropdown icon, you'll see a popup menu of "Connection Method".



Note:

For the IP address, please see the IP sticker attached on the right side of the drone.

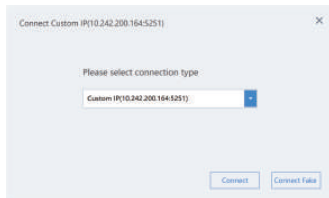
(3) Select "Custom IP()", you' ll see a popup window where you can type in the IP address.



(4) Type in the IP address of the Sim card and click "OK" .



(5) Tap "Connect" to connect the drone.

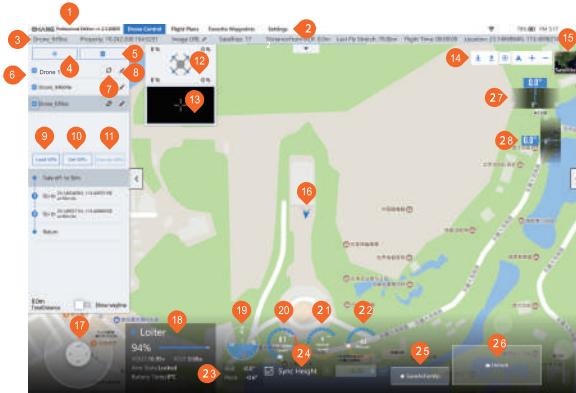


(6) Back to the main interface, check whether the drone is properly receiving data:

- a. Check whether the "Heartbeat" beats;
- b. Check whether it' s set to "Self-stabilization" mode;
- c. Check the drone' s detailed status;
- d. Check whether the GPS positioning aligns with the drone's current position.

6. Software Application

■ Interfaces Introduction



- | | |
|--|--|
| 1 Software Version | 13 Camera image transmission and map switching button |
| 2 The Ribbon | 14 Small Icons |
| 3 Status Bar | Download map Load offline map |
| 4 Add Drone | Locate laptop position Drone position |
| 5 Delete Drone | Map zoom in Map zoom out |
| 6 Drone Name | 15 Map mode switching |
| 7 Connect or Disconnect Drone | 16 Drone position |
| 8 Drone Status Details | 17 Micro-control: Slightly adjust the drone position. Drag the white dot and control the drone to fly slowly. Please be cautious about the drone heading. |
| 9 Import the preset flight path. Only applicable after setting the flight plan. | 18 Battery level |
| 10 Read and check the flight path after "Import Flight Path". | 19 Level gauge and compass |
| 11 After finishing steps 9 and 10, tap "Implement Flight Path", the drone starts cruising. | 20 Horizontal flight speed |
| 12 Detected drone type and motor load | 21 Vertical flight speed |

22 Flight distance from the takeoff point

23 Roll angle; Pitch angle

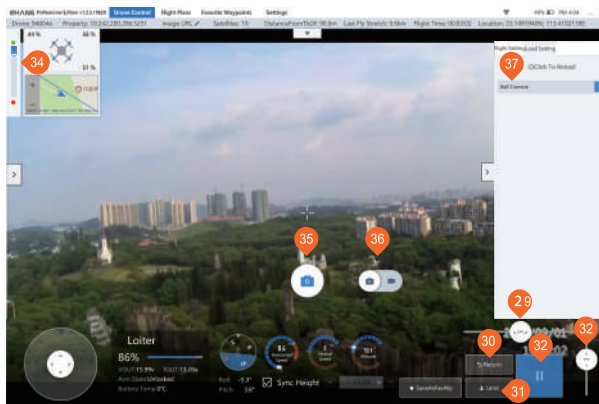
24 Maintain the initial flight altitude

25 Add current flight position to favorite waypoint

26 Unlock button: tap to check whether the propellers are functioning normally.

27 Gimbal yaw slide bar: slide leftward/rightward to adjust yaw angle (auto reset to default)

28 Gimbal pitch slide bar: slide upward/downward to adjust pitch angle (not auto reset to default)



29 Drone nose yaw control slide bar: slide to the left, the drone will rotate anticlockwise; slide to the right, the drone will rotate clockwise.

30 Return: tap the button, the drone will return to preset altitude above the take-off point.

31 Landing: tap the button, the drone will vertically and slowly land to the ground. Please make sure the landing point is safe enough.

32 Hover: tap the button, the drone will hover.

33 Altitude adjustment slide bar: slide upward, the drone will lift vertically, slide downward, the drone will descend vertically.

34 Flight path progress bar: The green dot represents the takeoff point, the red dot represents the destination, and the blue line represents the covered flight path. This progress bar only appears during route flight.

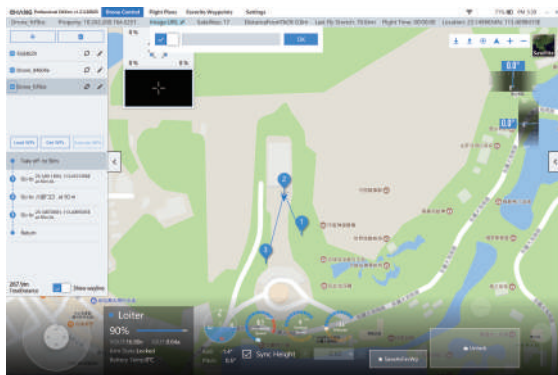
35 Take photos/ Record videos: In Photo mode, tap once to take photos; In Video mode, tap once to start recording, tap once again to stop recording.

36 Photo/Video mode switching button

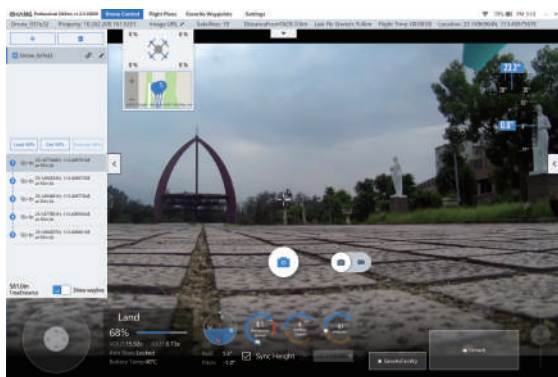
37 Camera type

■ Input Image Transmission Address

Tap "Image Transmission Address" to type in the image transmission address. The IP address format of GHOSTDRONE2.0 LTE is: rtsp://xx.xxx.xx(Sim card IP address)/live. Tap "Connect" to receive image transmission from the camera.

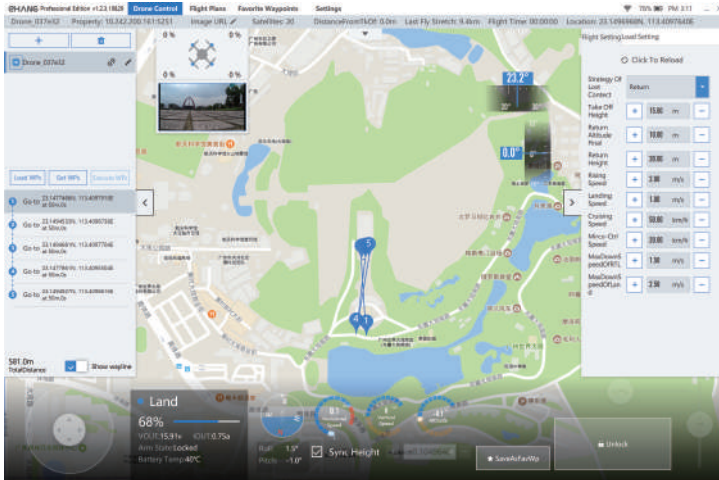


After successfully connecting the image transmission, you can view the images captured by the camera.



■ Flight Parameters Settings

Tap to unfold the “Flight Settings” on the right, set the flight parameters based on your requirements.

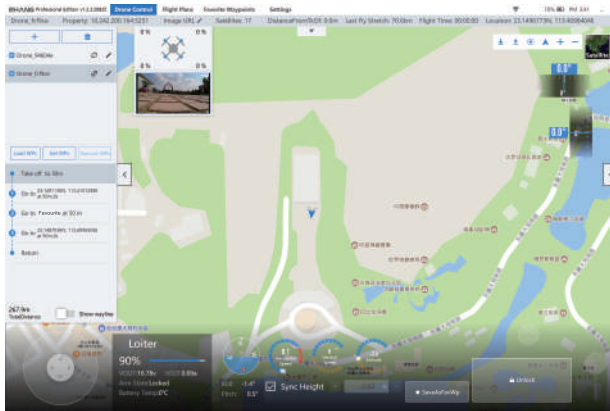


1. Strategy of Lost Contact: the drone' s next move after losing connection. Recommend to select “Return” .
2. Takeoff Height: The altitude to which the drone ascends after takeoff. It will hover at that altitude to wait for the next command.
3. Return Altitude Final: The altitude at which the drone hovers after it returns above the take-off point.
4. Return Height: The altitude at which the drone flies during its return path to the takeoff point.
5. Rising Speed: The speed at which the drone ascends. Recommended value: 1.5 m/s.
6. Landing Speed: The speed at which the drone descends. Recommended value: 1.5 m/s.
7. Cruising Speed: The speed at which the drone flies horizontally. Recommended value: 36 km/h.
8. Micro-Ctrl Speed: The speed at which the drone flies horizontally. Recommended value: 5 m/s.

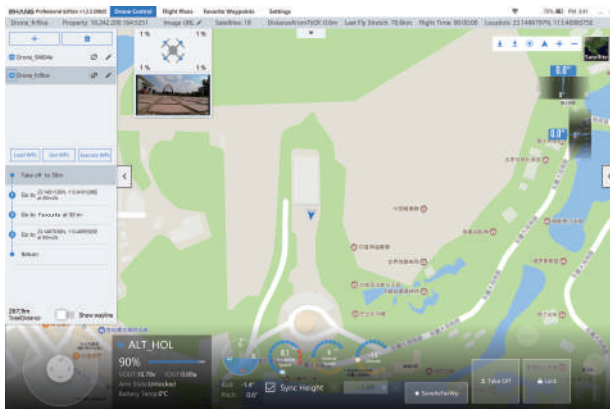
■ Unlock to Take off

Before unlocking, make sure the surrounding environment is safe and spacious without interferences, and more than 14 satellites can be detected.

Tap the “Unlock” button, the propellers and motors will start spinning. Check whether the rotating speed and direction are accurate, and whether the motors are rotating normally.

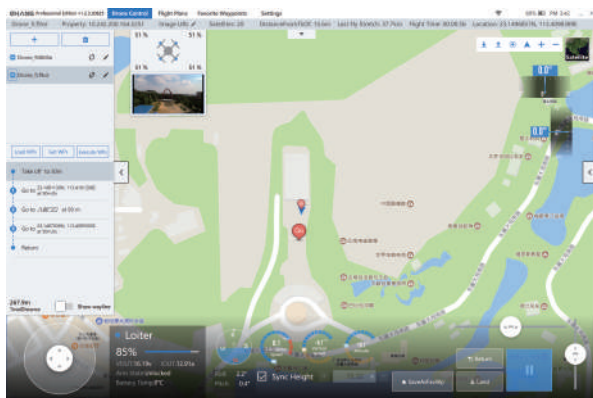


In case of any detected malfunctions after the check, tap the “Lock” button to abort the take off. If everything is functioning normally, continue to tap the “Take off” button, the drone will ascend to the preset altitude and hover, waiting for the next command.

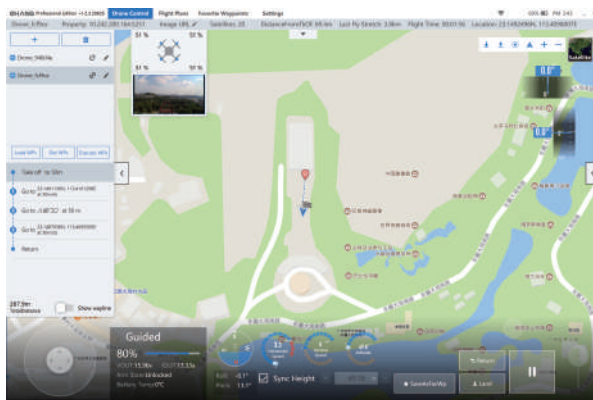


■ Touch-to-Go Mode

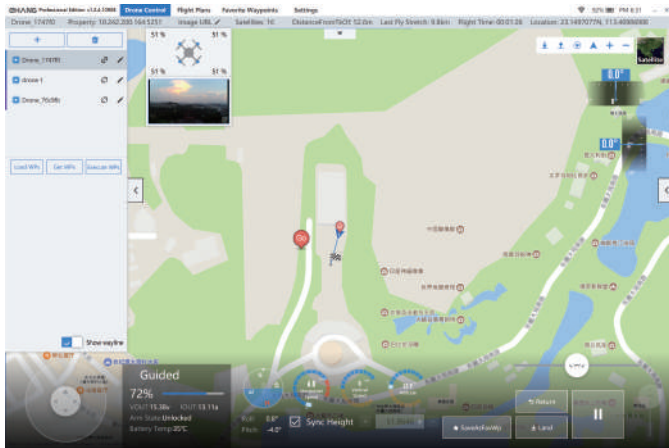
Adjust the flight altitude via the altitude adjustment bar at the bottom right corner, then select (single tap the map) the flight destination on the map, tap the “Go” that appears on your selected point, the drone will fly towards the destination.



The blue line represents the preset flight path, and the white line represents the route already covered by the drone. In case of emergency, tap the “Hover” button immediately.

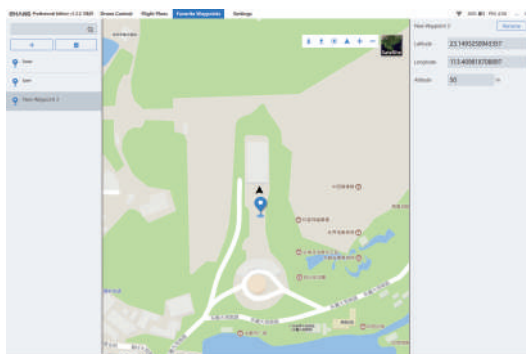


If you want to modify the flight path during flight, tap the “Hover” button first, then tap the new destination on the map and tap “Go” .

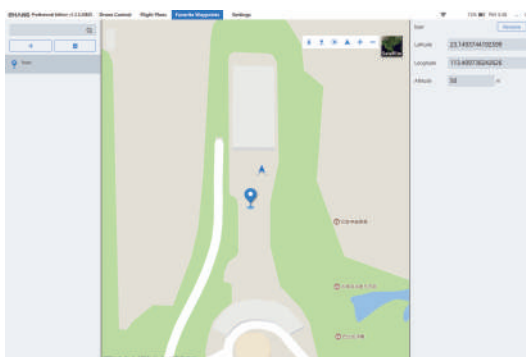


■ Favorite Waypoint

Tap “+” or double tap the map to add waypoints. Tap “Rename” on the top right corner to change the waypoint name. You can change the waypoint location by dragging it to a different position on the map. Based on your needs, you can set the parameters including the longitude, latitude and relative altitude of the waypoint. Tap “Save” to save your new settings.

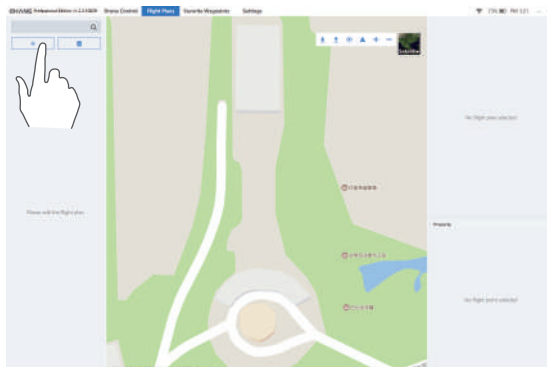


If you have added too many favorite waypoints, you can search the specific waypoint in the search bar.

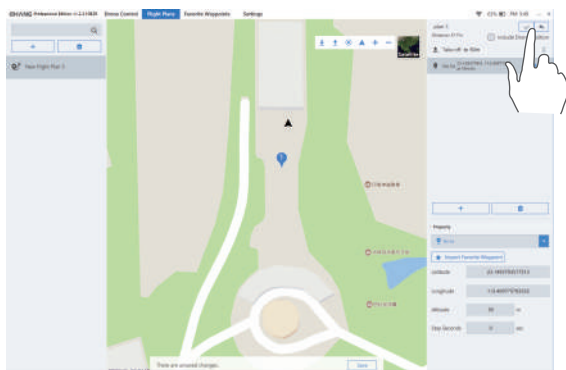


■ Flight Plan

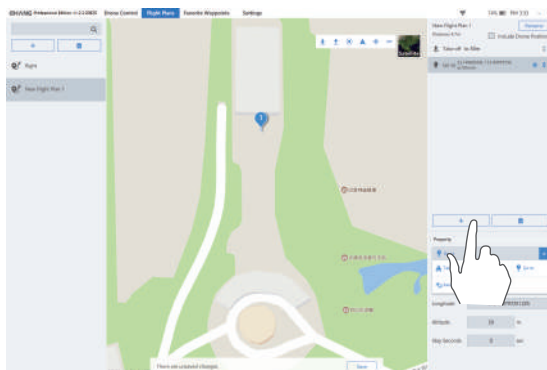
Step 1: Tap “+” to create new flight paths.



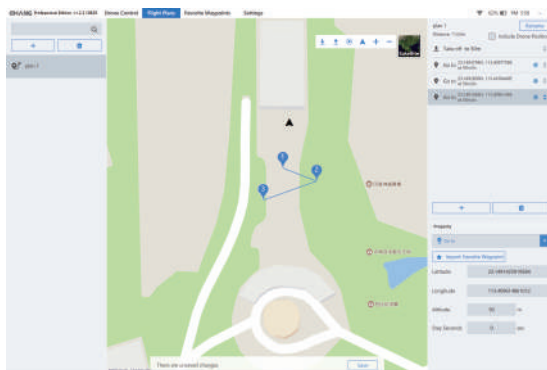
Step 2: Tap “Rename” on the top right corner to change the name of flight path. The first action of executing the flight path is “Take off” , please DO NOT change it, or you' ll encounter error when executing the flight path.



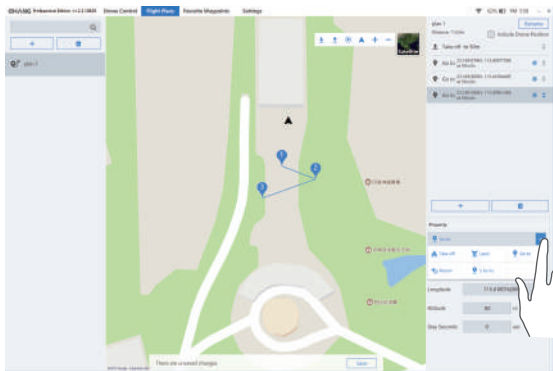
Step 3: Tap “+” on the right or double tap on the map to add waypoints. You can change the waypoint location by dragging it to a different position on the map. On the bottom right corner, you can adjust the waypoint parameters including the longitude, latitude, relative altitude, hovering duration, etc.




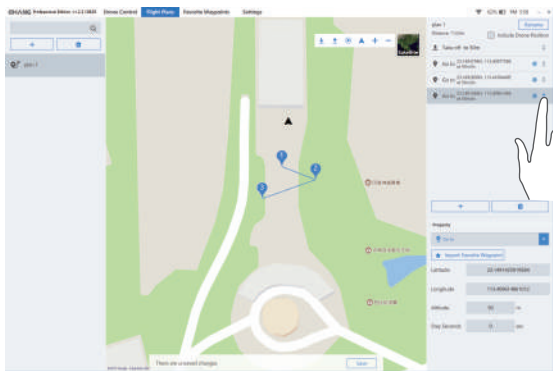
Step 4: Tap “+” on the right or double tap on the map to continue adding waypoints.



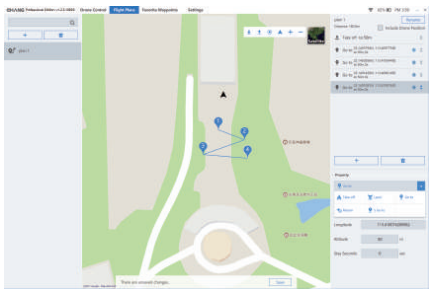
Step 5: Unfold the “Property” tab and set the flight missions at the waypoint based on your needs.



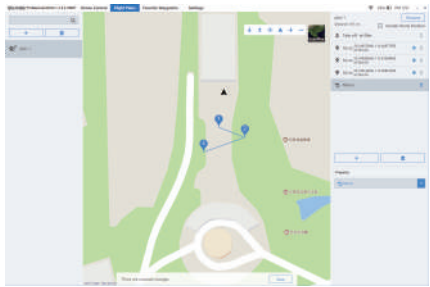
Step 6: As shown in the picture, drag  to adjust the waypoints order. Please DO NOT make any change of the first flight mission “Take off” .



Step 7: If the flight path involves three waypoints, you need to add a fourth waypoint. Tap to adjust its “Property” by setting this waypoint as a flight mission, such as “Return” .

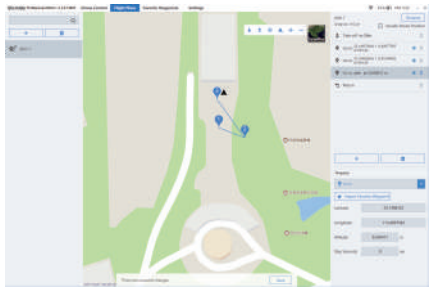


The final flight path will display three waypoints, as shown below:



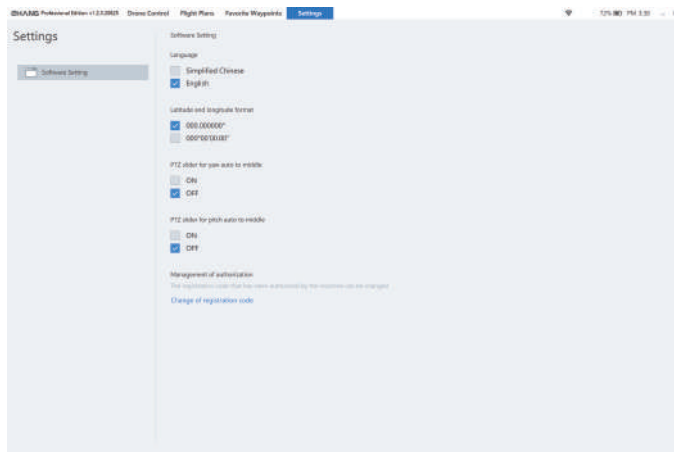
■ Add Favorite Waypoints

Select the waypoint to be replaced, tap “Import Favorite Waypoint” (make sure you have added favorite waypoints in advance) and select the waypoints from your favorites.



■ Settings

Below are basic settings of software/system. Please refer to the “Flight Control” section for settings of flight parameters.

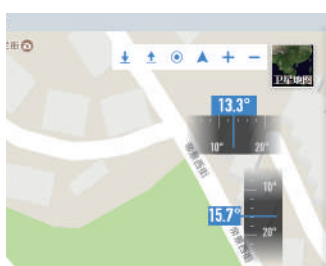


1. Language: Simplified Chinese/English.
2. Latitude and longitude format: select the display format of longitude/latitude based on your personal needs.
3. PTZ slider for yaw auto to middle: Select “On” , the value will auto reset to 0.0 after the rotation angle is adjusted; Select “Off” , the current value remains after the rotation angle is adjusted.
4. PTZ slider for pitch auto to middle: Select “On” , the value will auto reset to 0.0 after the pitch angle is adjusted; Select “Off” , the current value remains after the pitch angle is adjusted.

Legends: "PTZ slider for yaw auto to middle" On. "PTZ slider for pitch auto to middle" Off.

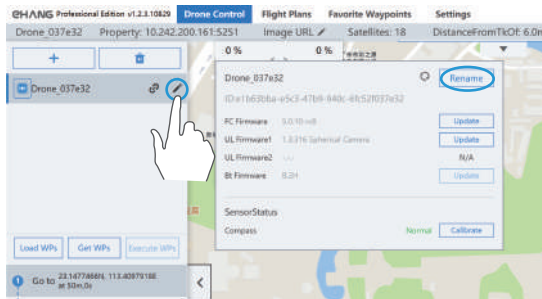


Legends: "PTZ slider for yaw auto to middle" Off. "PTZ slider for pitch auto to middle" Off.

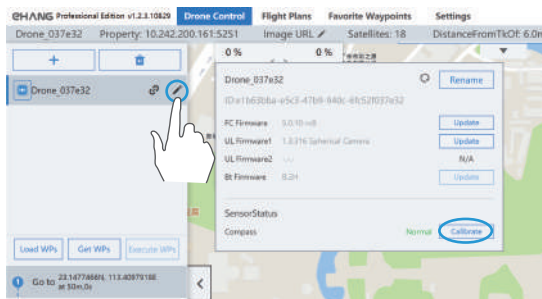


■ Renaming the Drone

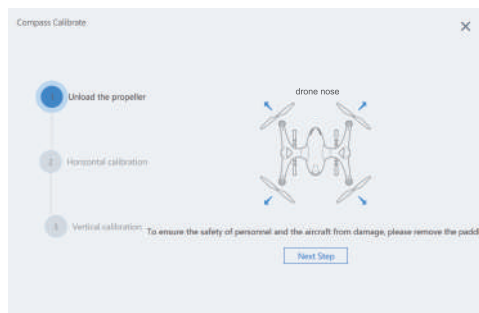
Tap  to enter the Rename interface, edit the name, then tap "OK" .



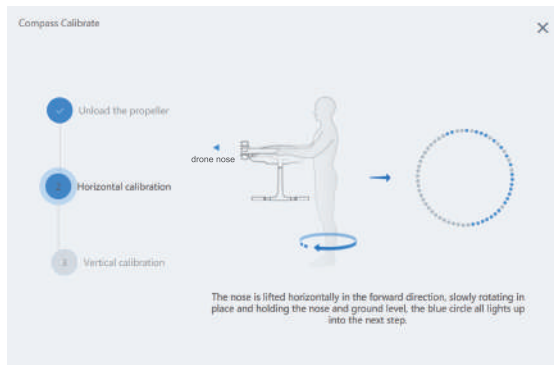
■ Compass Calibration



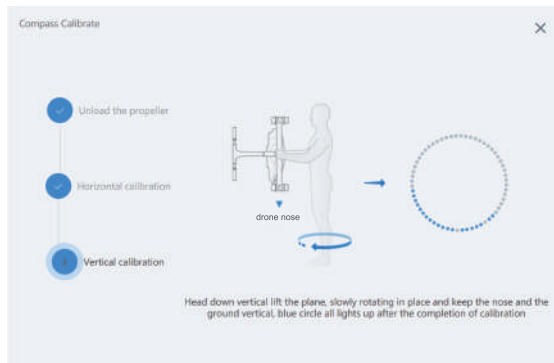
Step 1: To ensure safety, please remove all the propellers.



Step 2: As shown in the picture, hold the drone horizontally with its nose pointing away from you, spin with the drone until the grey circle is filled with blue dots, then the interface will automatically proceed to the next step.

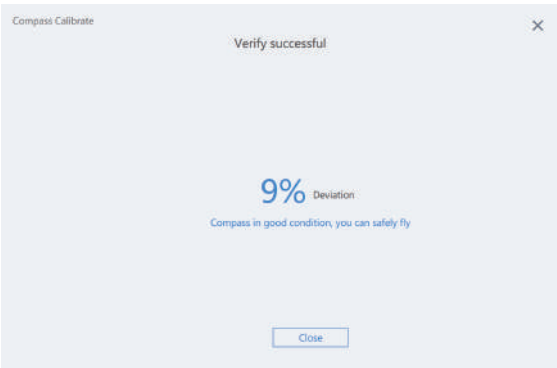


Step 3: As shown in the picture, hold the drone vertically with its nose pointing downward to the ground, spin with the drone until the grey circle is filled with blue dots, then the interface will automatically proceed to the next step.

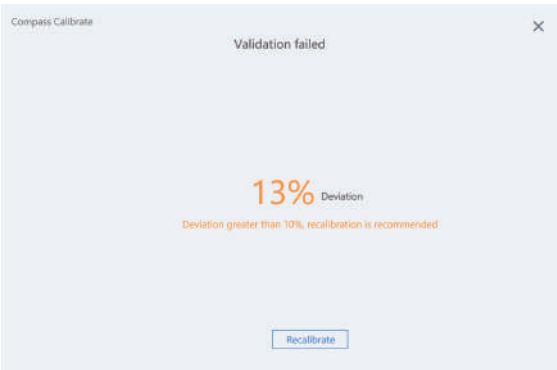


Step 4: You'll see either of the following two results after calibration.

Result 1: "Verify successful" with a deviation value less than 10%. Just tap "Close" to exit the calibration interface.



Result 2: "Validation failed" with a deviation value greater than 10%. You need to tap "Recalibrate" and repeat the aforementioned steps.



7. Parameters

■ Drone

Drone Body Materials	Composite materials
Dimension	300*300*195 mm
Diagonal Length	350 mm
Operating Temperature	-10°C~+40°C
Storage Temperature	-30°C~+70°C
Relative Humidity	No more than 98%
Landing Pad Requirements	Radius no less than 1 m
Max Cruising Flight Speed	60 km/h
Cruising Altitude	No more than 150m (height above ground level)
Max Rate of Climb	2.5 m/s
Max Rate of Descend	1.5 m/s
Hover Duration (Full Payload)	19 min
Max Flight Distance	10 km
Max Flight Duration	19 min
Hover Accuracy	horizontal: ±1, vertical: ±0.2 m

■ Smart Flight Battery

Weight	400 g
Type	LiPo 4S
Maximum Voltage/ Rated Voltage	17.4 V / 15.2 V
Current	4500 mAh
Operating Temperature	-10°C~40°C
Charging Temperature	0°C~+45°C
Charging Time	60 min ~ 70 min
Storage Temperature	23±5°C

■ 4G Communication

4G Network	TDD LTE, FDD LTE
Frequency bands supported	-E: LTE FDD B1/B3/B5/B7/B8/B20 LTE TDD B38/40/41
	-J: LTE FDD B1/B3/B8/B18/B19/B26 LTE TDD B41
	-A: LTE FDD B2/B4/B12
	-AU: LTE FDD B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD B40
	-V: LTE FDD B4/B13
Frequency bands supported	CAT4: DL 150M bps, UL 50M bps

■ 3D Gimbal for Spherical Camera

Weight	115 g
Static Accuracy	±0.03°
Dynamic Accuracy	±0.1°
Controllable Range	Yaw -45° to +45°/ Pitch Angle -90° to +30°
Supported Cameras	Spherical Camera

■ Spherical Camera

Weight	45g
Dimension	57*49*45 mm
Lens	F/2.8 93°
ISO	100 – 800
Effective Pixels	12MP(12 mega pixel)
Video/Photo Format	MOV/JPG
Compressed Format	H.264
Video	4K@30fps, 2.7K@60fps, 1080P@120fps
Storage	Micro SD memory card with Class 10 or UHS-1 rating, up to 64 GB

■ Power Adapter

Input Voltage	100 V~240 V
Input Current	2 A
Input Frequency	50/60 Hz
Output 1	DC 16.8 V 3.5 A
Output 2	DC 5 V 2 A
Rated Power	60 W
Operating Temperature	0°C~40°C
Storage Temperature	-20°C~85°C

■ Live Stream Video

Frequency	5.725 GHz~5.850 GHz
Maximum Operating Distance	1000 m
Stable Transmission Distance	500 m

■ Tablets

Chipset	Intel Lynx Point
Processor Type	Intel Haswell ULX Y series CPU
Memory Capacity	4 GB / 8 GB
Communication Network Adaptor	WLAN, LTE, HSPA+
LCD Screen Size	10.8-inch HD
Dimension	250.20*149.25 mm Diagonal: 239.04 mm
Max Resolution	1920 x 1080 Pixels
Front Camera	OV 2722 (2 Megapixels)
Rear Camera	IMX 175 (8 Megapixels)
Storage	NGFF SSD 128 GB / 256 GB
Battery Type	2-chip lithium-ion (36 WHr)
Weight	240.00 g (0.53 lb)
Operating Environment Temperature	0°C~+40°C

■ Tablet Power Adapter

Input Voltage	100 VAC ~ 240 VAC
Input Current (Max)	0.60 A
Output Power	23.4 W
Output Current (30 W)	1.2 A/2.0 A
Rated Output Voltage	19.5 Vdc

■ Tablet Battery

Type	2-chip lithium-ion (36 WHr)
Voltage	7.4 VDC (Rated) and 8.7 VDC (Max)
Weight	240.00 g
Dimension	240.85*7.17*70.60 mm
Rated Output Voltage	19.5 Vdc



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