HUBSAN®

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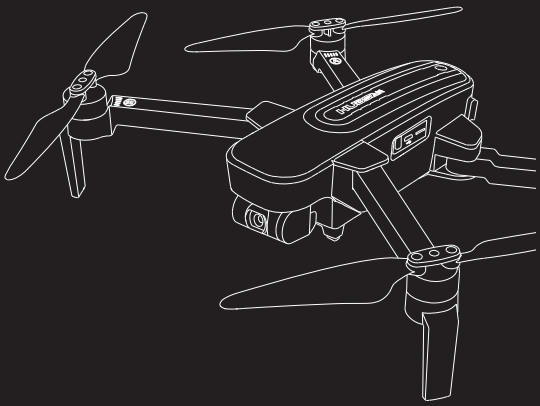


ZINO PRO

《User Manual》

Version 2.0

Disclaimer & Warning

All users must read product operating instructions as well as this liability disclaimer before using any Hubsan product. By using a Hubsan product(s), users are accepting the terms and conditions of Hubsan liability and operational guidelines. This product is not suitable for minors under 14 years of age. While operating a Hubsan product(s), users also accept all liability and responsibility for their own behavior, actions as well as any consequences resulting thereof while using a Hubsan product(s). These products may only be used for purposes that are proper and in accordance with local regulations, terms and any applicable policies / guidelines Hubsan may make available. Users agree to comply with these terms and conditions, along with any and all relevant policies / guidelines set forth by Hubsan.

Instructions

Some product flight functions are restricted in certain areas. Once you use this product, you are deemed to have read carefully the relevant ICAO regulations, local airspace control provisions and the regulations governing UAVs. You assume all liability for any non-compliance with the foregoing, are responsible for the consequences for your actions as well as any indirect and / or direct liability that arises as a result of these limitations.

Flight environment requirements

(1) Select an open environment devoid of high rise buildings and tall obstructions (such as trees and poles). Near buildings and obstacles, flight control signals and GPS signals can be severely weakened; GPS functions such as GPS mode and Return to Home may not function properly.
(2) Do not fly in bad weather conditions (such as in wind, rain or fog).
(3) Fly the aircraft in ambient temperatures of 0-40 ℃.
(4) When flying, please stay away from obstructions, crowds, high voltage lines, trees, water, etc.
(5) To avoid remote control signal interference, do not fly in complex electromagnetic environments (such as venues with radio stations, power plants and towers).
(6) The aircraft cannot be used in or near the Arctic circle or Antarctica.
(7) Do not fly in no-fly zones.
(8) Do not operate the aircraft near high pressure lines, airports or areas with severe magnetic interference.

IMPORTANT SAFETY INFORMATION

OPERATION

Be extremely careful and responsible when using the aircraft. Small electronic components can be damaged due to crashes or exposure to moisture / liquid. To avoid any injuries, do not use the aircraft with broken or damaged components.

MAINTENANCE

Do not try to open or repair the units by yourself. Please contact Hubsan or Hubsan authorized dealers for service. For more information, please visit the official website at www.hubsan.com.

BATTERY

Do not disassemble, squeeze, impact, burn, drop or trample the battery. Do not short-circuit or put the battery terminal in contact with metal. Do not expose the battery to temperatures above 60 ° C. Charge the aircraft battery prior to flight. Use a Hubsan dedicated charger for charging. Keep the battery out of the reach of children and away from any kind of moisture.

FLIGHT

Please be mindful of personal safety and the safety of others while flying.

-Do not fly in bad weather conditions.
-Do not attempt to catch the aircraft while it is in flight.
-This product is intended for experienced pilots over the age of 14.
-After every flight, completely disarm the aircraft motors and disconnect the aircraft from power. Then, you may power off the remote control.

READ THE DISCLAIMER AND SAFETY GUIDELINES FIRST BEFORE USE.

Symbol Explanation:

⊘ Prohibited Operation

⚠ Important Notice

Instruction

Explanation / Reference

USAGE ADVICE

(Hubsan has created the following operational and safety materials):

Quick Start Guide

Hubsan Safety Advisory Notice for Lithium-Polymer (LIPO) Batteries

LiPo batteries are different from conventional batteries in that their chemical contents are encased in a relatively lightweight foil packaging. This has the advantage of significantly reducing their weight but it does make them more susceptible to damage if roughly or inappropriately handled. As with all batteries, there is a risk of fire or explosion if safety practices are ignored:

- If you do not plan to fly the aircraft for a long time, store the battery ~50% charged to maintain battery performance and life.
- Please use Hubsan chargers for battery charging.
- Discharge the battery at 5C current or below. To avoid discharge related battery damage, do not prolong the discharge time.
- Do not charge on carpet to avoid fire.
- Batteries need to be recharged if unused for over 3 months.

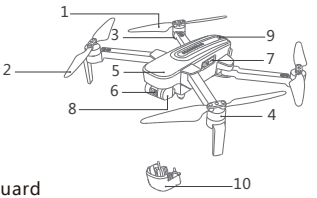
1. Do not disassemble or reassemble the battery.
2. Do not short-circuit the battery.
3. Do not use or charge near sources of heat.
4. Do not put the battery in contact with water or any kind of liquid.
5. Do not charge batteries under sunlight or near fire.
6. Do not puncture or subject the battery to force of any kind.
7. Do not throw or manhandle the battery.
8. Never charge a battery that has been damaged, become deformed or swelled.
9. Do not solder on or near the battery.
10. Do not overcharge or over discharge the battery.
11. Do not reverse charge or reverse the battery polarities.
12. Do not connect the battery to a car charger / cigarette lighter or any kind of unconventional power source.
13. This battery is prohibited for non-designated devices.
14. Do not touch any kind of liquid waste or byproduct from batteries. If skin or clothes come in contact with these substances, please flush with water!
15. Do not mix other types of batteries with lithium batteries.
16. Do not exceed the specified charging time.
17. Do not place the battery in a microwave or in areas of high pressure.
18. Do not expose the battery to the sun.
19. Do not use in environments with high static electricity (64V and above).
20. Do not use or charge in temperatures below 0 ℃ and above 45 ℃.
21. If a newly purchased battery is used, leaking, possesses a bad smell or other abnormalities, return immediately to the vendor.
22. Keep away from the reach of children.
23. Use a dedicated battery charger and follow all charging requirements.
24. Minors who use the battery and its dedicated unit must be supervised by an adult at all times.

Contents

1 Aircraft

1.1 Aircraft Diagram

1. Propeller A
2. Propeller B
3. LED indicator
4. Motor
5. Body shell
6. 4K HD Camera
7. Micro-SD/TF Slot
8. Gimbal
9. Power
10. Gimbal Protection Guard



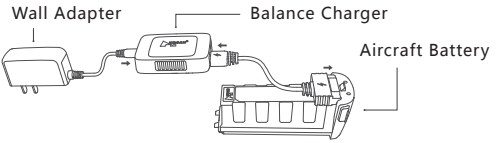
1.2 Aircraft battery charging

Charging:

Aircraft lithium battery capacity: 3000mah, 11.4V equipped with standard adapter and Balance Charger, charging time is about 4 hours.

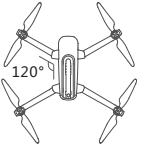
Balance Charger LED Status:

Standby mode	Green Fast Blink
Charging	Solid Red
Full	Solid Green
Abnormal charge	Red Fast Blink



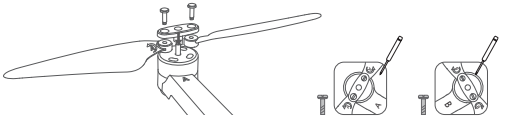
1.3 Aircraft battery installation

Extend the front arms first then extend the rear arms to the maximum angle. Pinch the sides of the battery and push the battery in until you hear a click. Make sure the battery is locked in. To remove the battery, hold the head of the aircraft and pinch the sides of the battery then pull the battery out.



1.4 Propeller installation and disassembly

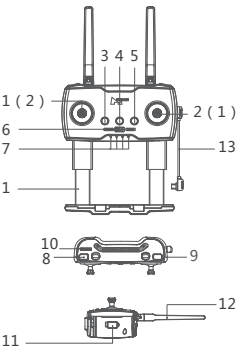
Before installing propellers for the first time, please check that each Propeller A is matched with motor A and each Propeller B is matched with motor B. Then use the provided screws to secure each propeller. Tighten the screws clockwise to install them. When the propellers need to be replaced, unscrew the propellers by loosening the screws counterclockwise and then removing the damaged propellers.



2 Remote Controller

2.1 Remote Controller Diagram

(1). Throttle / Aileron stick
(2). Elevator / Rudder stick
1. Throttle / Rudder Joystick
2. Elevator / Aileron Joystick
3. Return to Home (Aircraft Returns to Takeoff Point)
4. Power (Long press)
5. Auto Takeoff / Land
6. Expert / Normal Mode
7. Power Status LEDs
8. Photo
9. Video
10. Gimbal Adjustment Wheel
11. Charging / Adapter Port
12. WIFI Antenna
13. Adapter Cable



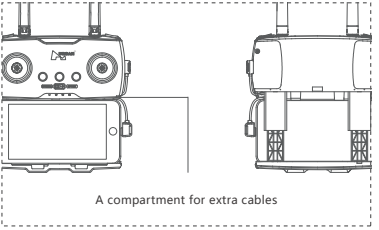
When installing the mobile device, place the device in its dedicated frame and avoid pressing the device's buttons with the frame.

2.2 Remote Controller Features

S/N	Key / Switch	Function
(1)	Throttle / Rudder Stick	Push the stick forward or backward and the quadcopter will ascend or descend (respectively). Push the stick left or right and the quadcopter will fly left or right (respectively).
(2)	Elevator / Aileron Stick	Push the stick forward or backward and the quadcopter will fly forwards or backwards (respectively). Push the stick left or right and the quadcopter will rotate counterclockwise or clockwise (respectively).
1	Throttle / Aileron Stick	Push the stick forward or backward and the quadcopter will ascend or descend (respectively). Push the stick left or right and the quadcopter will rotate counterclockwise or clockwise (respectively).
2	Elevator / Rudder Stick	Push the stick forward or backward and the quadcopter will fly forwards or backwards (respectively). Push the stick left or right and the quadcopter will fly left or right (respectively).
3	Return to Home	Long press to enter the return mode, short press to exit one button to return to the air; During the flight, the remote control "Beep... Beep..." prompt (once every three seconds) (RTH in the aircraft GPS normal and search. Can only be enabled when there are 6 or more stars)
4	Power Switch	Long press to power on or off.
5	Auto Takeoff / Land	Long Press to auto takeoff or land.
6	Normal / Sport Land	Normal mode (left): The aircraft flies at the maximum speed set by the APP Expert mode (right): The maximum flight speed of the aircraft is 10m/s
7	Power Status LEDs	The 4 LEDs are battery indicators. Each LED represents 25% of the battery.
8	Photo	Short press to take photos.
9	Video	Long press to start recording. Short press to end recording.
10	Gimbal Adjustment	Controls the angle of the gimbal.
11	Remote control charging / patch cord interface	(1) Remote control charging interface (2) Mobile device patch cord interface

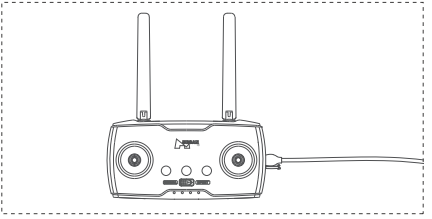
S/N	Key / Switch	Function
12	Low Battery Warning	Low battery warning for the aircraft or remote control: Remote control "Beep...Beep..." prompt (one time per second)
12	Standby protection	The remote control has no operation for 10 minutes after standby, the remote control "Beep...Beep..." Tips (once every three seconds) After 3 minutes of prompting the sound, the remote control will automatically shut down, and there will be operation within 3 minutes, and the prompt tone will stop

2.3 Connecting Your Mobile Device



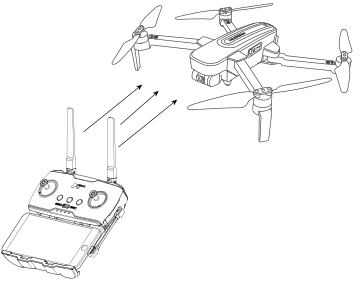
2.4 Charging Remote Controller

The remote is charged using the Micro USB cable as shown:



The remote control charging time is about 2.5 hours.The remote control battery indicator light flashes during charging.When charging is complete, the LEDs will be solid green.

2.5 Remote Control Antenna Angle



(1) Adjust the angle of the remote control antenna and try to face the flight direction of the aircraft as much asap;

(2) Long-distance state, the distance between the two antennas is properly tightened to maintain the antenna directivity;

(3)Closer state, the two antennas are properly separated to maintain a wide receiving range;

(4) Do not form an occlusion or cross between the antennas.

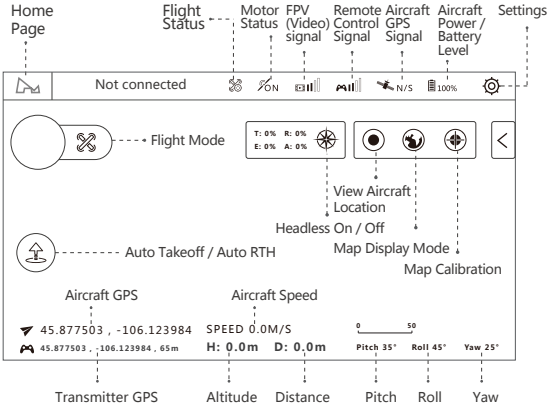
3 Flight

3.1 Download the X-Hubsan App

Before flying, users must download the X-Hubsan APP.

Download the APP for free by scanning the code on the right or by downloading it via the App Store (iOS) and Google Play (Android).

3.2 Main Interface Guide



(Note: This interface is the interface in map mode.)

3.3 Pairing the Aircraft

(1) Long press the power button on the aircraft to power it on.

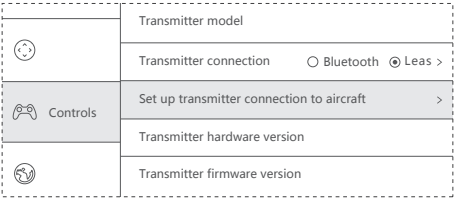
(2) Long press the transmitter power button to power it on. Use the adapter cable to connect the transmitter to your mobile device.

Before Pairing

After Pairing

4. Open the binding mode (this step is only needed when binding for the first time or switching to a different transmitter. Must be done manually).

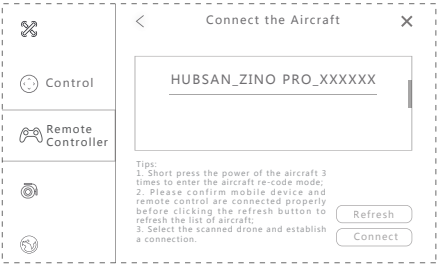
1) Go to APP settings - transmitter, transmitter connection method: Leas



2) Select "Set the Connection Between the Transmitter and the Aircraft" to search for the aircraft.

3) Short press the power button of the aircraft 3 times to enter binding mode.

4) Select the detected aircraft and establish a connection.



Tips :

① The binding process is completed in the factory. Generally, the user only needs to perform the first 3 steps.

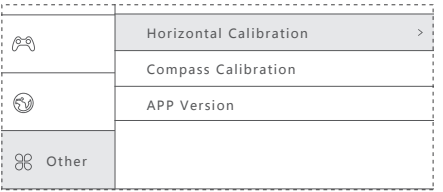
② After the aircraft entered binding mode, the 4 LED and the video LED (by the TF card slot) will turn into flashing green lights. After the binding is completed, the LED will turn into solid green.

③ During binding, please keep the distance between the aircraft and the transmitter less than 1 meter.

3.4 Calibration

3.4.1 Horizontal Calibration

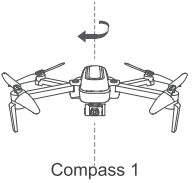
If during takeoff or flight the aircraft drifts, lifts off unevenly, perform a horizontal calibration. First, land the aircraft if it is flying and make sure all motors come to a complete stop. The aircraft must also be on a completely flat and horizontal surface for the calibration to work properly. Tap the Settings cog, followed by "Other". Select "Horizontal Calibration" and allow the aircraft to calibrate itself. Calibration is complete when all 4 LED indicators stop flashing. Do not move the aircraft during.

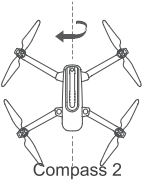


3.4.2 Compass Calibration

When using for the first time, the compass calibration will pop out before takeoff. Follow the instructions on your screen, rotate the aircraft horizontally then point the aircraft nose down and rotate it clockwise. The compass calibration message will disappear once it is completed. You must complete the compass calibration before flying the aircraft for the first time.

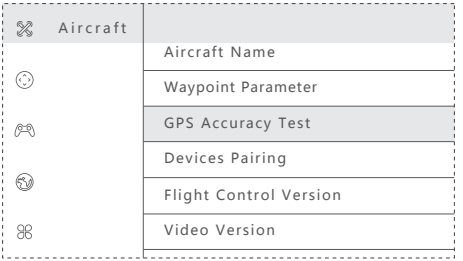
The compass is susceptible to interference by electronic equipments, magnetic interference and metals and interference could lead to erratic behavior and loss of control. Regular calibration helps to keep the compass and its readings accurate. To manually calibrate the compass, tap the "Settings" cog on the upper right hand corner of the main interface. Then select "Other" followed by "Compass Calibration".

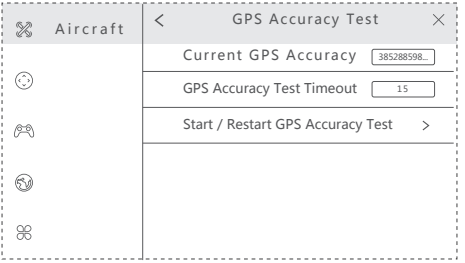

Compass 1


Compass 2

3.4.3 GPS Accuracy Test

After entering the APP interface, tap on "Aircraft", select "GPS Accuracy Test" then tap on "Enable / Restart GPS Accuracy Test". The aircraft will automatically proceed to test.





3.5 Staring/Stopping the Motors

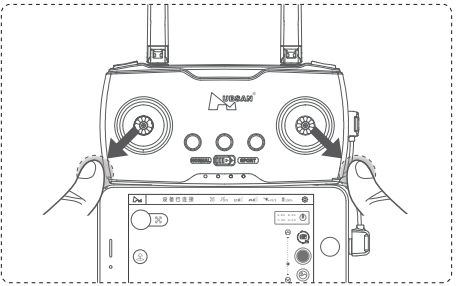
Motor starting condition

1. The aircraft, remote control and mobile phone have been connected;

2. The aircraft has been calibrated by the compass (four Orientation lights are always on);

3. The aircraft must be placed horizontally.

4. It is recommended to take off when the GPS signal is ≥6 stars.



Staring the Motors

Push both stick to the bottom outer corners to start the motors.Once the motors have started spinning,Release both sticks simultaneously.

Stopping the Motors

When the motor is running,Push both stick to the bottom outer corners to stop the motors.Release both sticks once motors stop.

Stop the Motor Mid-flight

When flying in the air, the outer eight-bar can force the motor to stop for 2 seconds.Only stop the motors mid-flight in emergency situations when

doing so can reduce the risk of damage or injury.

4 Flight Controller

4.1 Flight Control Mode

Hover mode	Hover mode works best when the GPS signal is strong.
Attitude mode	When the GPS signal is week or the compass is disturbed, the aircraft will enter the attitude mode. In attitude mode, the aircraft will drift in the horizontal direction.
Sport mode	The maximum flight speed is 10m/s.
Normal mode	APP settings - aircraft - maximum speed settings can be adjusted 10% -100%,The aircraft flies at the speed set by the APP. The maximum flight speed is 8m/s.

4.2 Flight Orientation Indicator (Single-Color Lamp)

Calibration	
Power On And Start Up	All 4 LEDs flash slowly
Compass Calibration	Calibrate Compass 1:LEDs flash in vertical pairs, alternately Calibrate Compass 2:All 4 LEDs flash simultaneously
Horizontal Calibration	All 4 LEDs flash slowly
Flight Mode	
Flight mode	All 4 LEDs are solidly lit
Low Power	Fore / frontal blue LEDs stay solidly lit and the rear red LEDs flash rapidly

Loss Of Flight Control Indicator	The front Orientation light flashes slowly in blue, and the rear Orientation light is steady red. (When there is a conflict with low battery, priority is displayed.)
Headless Mode	Fore / frontal LEDs are solid blue and rear red LEDs flash alternately
RTH	The front Orientation light is steady blue, and the rear Orientation light is red and slow.
Photo	Rear red LEDs flash once
Video	Rear red LEDs flash alternately
Turn off the light	Long press the camera button.

4.3 Return-to-Home(RTH)

There are three types of RTH: One-key RTH,Low Battery RTH,and Failsafe RTH.When taking off, GPS ≥ 6 stars, the aircraft successfully recorded to the return point. If there is no GPS signal forced take-off, the position with the latest GPS ≥ 6 stars is recorded as the return point.

One-key RTH
APP one-Key RTH / remote control one-Key RTH

RTH-Process

1. Record "Home Point"
2. Trigger return conditions
3. Adjust the direction of the head
4. Return to the return altitude set by APP
(1) Regardless of the current height of the aircraft, if the aircraft is within 5 meters of the horizontal distance, land directly;
(2) If the horizontal distance is within 5 meters and within 20 meters, return at the current altitude;
(3)The aircraft will return directly to the return altitude outside 20 meters, and the return altitude will increase to the return altitude and then RTH.
5. Search for the drone apron during the landing process (Make sure this function is on).

Low Battery RTH

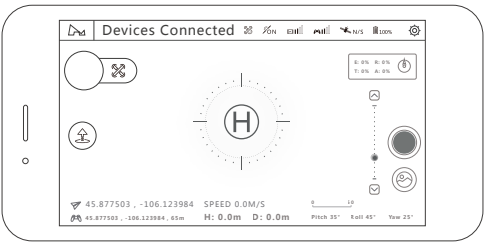
The flight controller will display a notice when a low battery warning is triggered.
The aircraft will automatically return to the Home Point if the current power is enough,otherwise it will land directly. when without GPS signal or signal is not strong that will land directly.
Performance requirements:
(1) The appropriate low-voltage protection voltage is automatically calculated according to the altitude and distance of the flight;
(2) After the low power forced landing or crash, if the power is lower than 10%, enter the protection mode: turn off the picture transmission, but save normal data communication.

Failsafe RTH

When the aircraft loses connection with the remote control for more than 5 seconds, the aircraft automatically returns or land directly.
Performance requirements:
(1) After the aircraft loses control for 5 seconds, it triggers automatic return;
(2) If the connection is restored during the return flight, the return flight can be cancelled;
(3) Landing directly when there is no GPS signal or the signal is not strong.
(4) After the aircraft re-establishes the connection, the priority control signal establishes a connection.
The connection is not established until 10 seconds after the signal is transmitted, and the image connection can also be forced by the shortcut button.

4.4 Search the Drone Apron

When the aircraft landed or returned to a height of about 10 meters from the ground, it will automatically enter the search for the drone apron function.



(1) The gimbal overlooks the search for the drone apron [H], Apron requirements: 1 Sharp contrast,2 white "H" lettering, 3 Apron without obstruction.

(2) The aircraft will first pan to the top of the apron and lock the apron, then descend smoothly after successful recognition . When landing to a height of less than 3 meters, the aircraft pan/tilt will resume normal view and no longer adjust the position of the aircraft and land directly. If an error is identified or other unexpected circumstances occur, press the stop button to exit the function.

(3) If the aircraft has not been found to the apron or critical low battery when it has landed 5 meters, the aircraft will land directly.

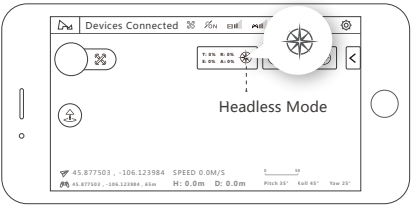
(4) The search for the drone apron function cannot be performed in video mode.

(5) If needn't ,please turn it off in the settings.

4.5 Intelligent Flight Mode

4.5.1 Headless Mode

Record a flight path , the direction of the nose is the direction of advance , the heading and forward direction of the aircraft are independent of the direction of the nose during flight.



4.5.2 Creative video

Panorama Photography:

(1) Select the direction of rotation (clockwise / counterclockwise);

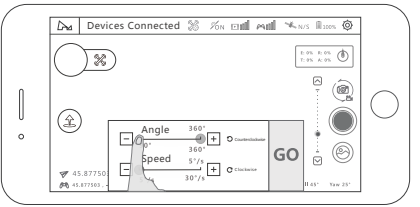
(2) Set the rotation angle, the range of rotation angle (90 ° -360 ° , accuracy 1°);

(3) Set the speed (2-30 ° / sec, accuracy 1);

(4) Click GO, the aircraft rotates in place in the hover position, shooting during the rotation + storage

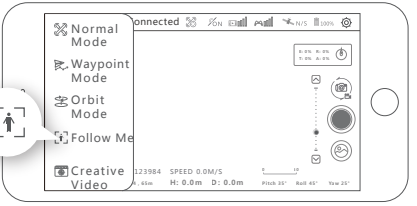
Video recording

(5) During the execution, you can click the exit button to exit the mode and save the video;



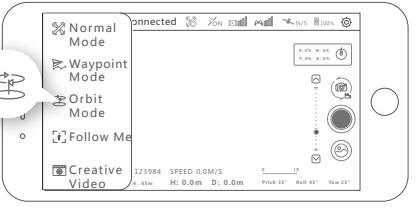
4.5.3 Image Tracking

Select the target on the APP. After the selecting successfully, tap on "Go" and the aircraft will follow the movements of the target. The range of tracking altitude and distance is 5-15 meters.



4.5.4 Orbiting

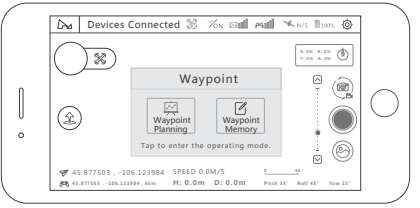
Tap on "Mode Selection" then "Orbit Mode" to set the current location or the position of the mobile device as the center.During Orbit mode, you can adjust the speed and direction by moving the control stick left and right and adjust the orbit radius by moving the control stick forward and backward.



4.5.5 Waypoint

The aircraft will fly along the flight path drawn on-screen or saved ,you can adjust the speed of the aircraft during flight .

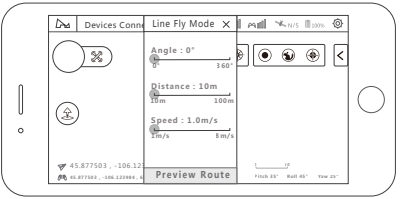
Waypoint Planning: You can preset the waypoint parameters such as the number of waypoints, the altitude of each waypoints and other parameters. The aircraft will follow the preset parameters after you activate waypoint mode. You can control the flying speed during flight or you can pause or resume the Waypoint mode. Waypoint Memory: After entering the mode, fly the aircraft and tap on "Memorize Waypoints" on the APP and the aircraft will mark the location. After memorizing all the waypoints, upload and execute, then the aircraft will fly according to the memory.
If the aircraft is not in the starting position, the aircraft will fly to the starting position before starting this function.



4.5.6 Line Fly Mode

Tap on "Mode Selection" then "Line Fly Mode".Set the angle,distance and speed of the aircraft.
Performance requirements:
1. Set the angle (0 ~ 360 °, accuracy 1 °);
Set the distance (10-100 meters, accuracy 1 meter); set the speed (1-8 m / s, accuracy 0.1);
2 , Once setup is complete, the aircraft will execute Line Fly mode. During the flight, pilots can take photos or videos manually, or pause / resume / stop the flight at any time.
During the flight, the throttle stick is controllable and the other directions are uncontrollable;

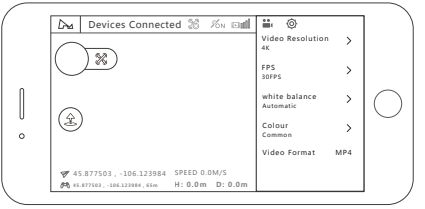
3. You can pause/resume/stop the flight at any time.
4. When the aircraft is low on battery or lost connection,the aircraft will always set Return to Home as the priority mission.



4.6 Camera and Gimbal

4.6.1 Camera

Use this APP to set the video resolution, white balance, colour, etc,as shown APP.



4.6.2 Camera TF Slot

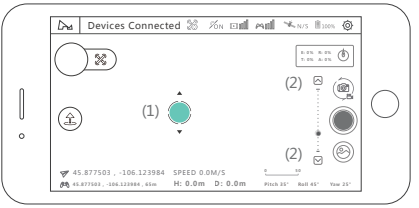
1.Support TF card, U1 or Class10 and above 16G/32G/64G/128G;
2. Support hot swap, it is recommended to plug in the TF card after turning off the power asap;
3. The maximum recording time is up to 30 minutes.

4.6.3 Gimbal Pitching Axis Adjustment

APP Adjustment

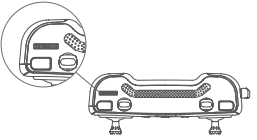
Method 1: Long press the blank space in the video preview interface, the mobile device should vibrate once and the icon (1) should appear by your finger then you can move your finger up and down on the screen to adjust the pitching axis.

Method 2: Click the up and down adjustment buttons of the gimbal pitching axis slider to tune the pitching axis.



Transmitter Adjustment

Adjust the gimbal pitching slider on the transmitter to adjust the angle of the gimbal.



4.7 Intelligent Protection Function

4.7.1 Low Power Failsafe

When the aircraft battery is low, there is likely insufficient power to support the return of the aircraft. Please land the aircraft immediately, otherwise the aircraft will fall and cause damage to the aircraft and surrounding objects. To prevent this, the aircraft flight control will use flight information to determine whether to perform a Return to Home or to land immediately.

4.7.2 Loss of Flight Control Failsafe

When the flight control connection between the aircraft and transmitter is lost, the aircraft will automatically land or return to where the remote control / transmitter was last located and land there. This can drastically reduce the possibility of the aircraft crashing or being lost.

Conditions that may trigger a failsafe:

1) Transmitter is powered off / loses power.

2) The flight distance exceeds the remote control's signal transmission range.

3)There is an obstacle between the remote control and aircraft.

4) The flight control or transmitter signal is interrupted by strong external electronic interference.

⊘ To ensure the successful return of the aircraft if it loses flight control connection, users must confirm that the aircraft has enough GPS satellites to fly safely in GPS mode. Users must also be certain that the flight environment is clear enough for an emergency return and landing.
If the aircraft's GPS satellites drop below 6 for more than 20 seconds while the X4 is returning to Home Point, the aircraft will automatically descend.

Frequently Asked Questions

1.Aircraft and remote control are not pairing

(1) Check if the status of the APP control signal icon changes.

(2) Android phone requires USB settings, please check the "Connecting Tutorial for Android Phones"

2. Aircraft can't be searched

(1) Restart the aircraft, remote control and X-Hubsan APP first.

(2) Update aircraft firmware.

(3) Check if the position of the TF card slot in the fuselage is steady red. If it flashes that is abnormal.

3.Figure transmission or easy to lose control of the broken connection

(1) Adjust the antenna Angle on the aircraft,do not block in the middle.

(2) Change the flight place, do not fly in the high-rise, signal tower accessories.

(3) Update the latest firmware of the aircraft.

4.The aircraft is hovering unsteadily

(1) To replace the flight place, do not fly in tall buildings, signal tower accessories

(2) The aircraft compass calibration and Horizontal calibration.

(3)Whether the wind is too strong to affect the flight.

5.Aircraft GPS accuracy is not accurate or cannot pass GPS accuracy test.The GPS accuracy of the aircraft is inaccurate or cannot pass the GPS accuracy test

(1) Search for GPS 6 or more in outdoor open spaces

(2) Surround the aircraft to walk around

(3) Replacing your mobile device

6.Battery cannot be charged

Replug the charger and battery.

7.Flight time is irregular

If the battery is overcharged or overheated or the high temperature environment is likely to decrease the battery life, it is recommended that the battery be stored at the remaining 50% or not.

8.Gimbal's angle of inclination is too large or gimbal error

(1) Restart the aircraft for Gimbal calibration

(2) APP Check if the status of the gimbal is normal

9.Failed to open the gimbal

Please remove the Gimbal protective cover and then turn it on before starting.

10. Low quality images.

(1)Check if the lens protector is torn off

(2)Use in a well-lit environment

(3)Set the shooting parameters in the APP camera settings

(4)The captured video source file is saved in the TF card with the AA file.

11.Gimbal wet

(1) Flying in heavy fog or clouds may make the gimbal wet, change the aircraft storage location.

(2) Place the desiccant in the protective cover of the gimbal when stored.

12.Pictures or Video loss

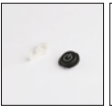
(1) Remember to press the end button after completing the video recording, otherwise it may cause video damage or loss.

(2) Check if the TF card is bad

ZINO PRO Parts & Accessories Diagram

ZINO000-60
Upper Cover
(Black)

ZINO000-61
Upper Shell
(Black)



ZINO000-16
Power button
+ Light pipe

ZINO000-62
Bottom Shell
(Black)

ZINO000-63
Power Plate
Front Gimbal Anti Drop
Rear Gimbal Anti Drop

ZINO000-64
Front Arm Cover
Rear Arm Cover
(Black)

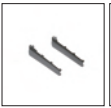
ZINO000-20
Rotate block+
Arm rotate ring+
Rotate shaft

ZINO000-21
Translucent

ZINO000-01
Gyroscope
cover

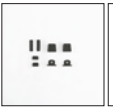
ZINO000-22
Gimbal
Protection Cover

ZINO000-23
Propeller
Clamps



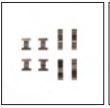
ZINO000-65
Left Antenna Cover
Right Antenna Cover
(black)

ZINO000-66
Arm Decoration
Arm Clamp
(Black)

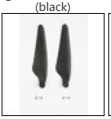


ZINO000-26
Rubber feet

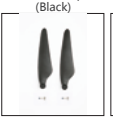
ZINO000-27
Gimbal Shock
Absorbers



ZINO000-28
Arm Shrapnel

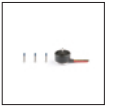


ZINO000-29
Propeller A
(with screws)

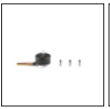


ZINO000-30
Propeller B
(with screws)

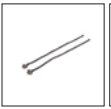
ZINO000-48
Propellers A / B
(With Screws)



ZINO000-31
Motor+Long
screw for the front arm



ZINO000-43
Motor+Short
screw for the rear arm



ZINO000-32
ESC (Blue)

ZINO000-33
ESC (Red)

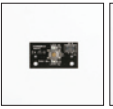
ZINO000-02
WIFI Antenna

ZINOPRO-02
Main Board

ZINO PRO Parts & Accessories Diagram

ZINO000-34
Power Adapter Board

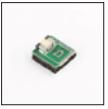
ZINO000-03
Power Adapter Board FPC



ZINO000-35
Button Board

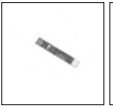
ZINO000-04
Keypad FPC

ZINO000-05
Compass Module

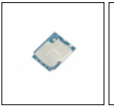


ZINOPRO-06
Gyro Module

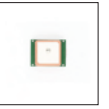
ZINOPRO-07
Gyro FPC



ZINOPRO-04
Relay Board FPC



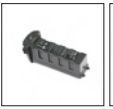
ZINOPRO-03
Relay Board



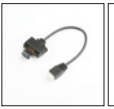
ZINOPRO-01
GPS

ZINO000-36
Screws

ZINO000-37
Screwdriver



ZINO000-67
Aircraft Battery (Black)



ZINO000-39
Aircraft Battery Charger

ZINO000-40
Adapter (US)

ZINO000-44
Adapter (Euro)

ZINO000-46
Adapter (Aus)

ZINO000-47
Adapter (Jap)

ZINO000-45
Adapter (EU)

ZINO000-41
Balance Charger

ZINOPRO-10
HT016B Transmitter

ZINO000-69
Micro USB Adapter Cable (Black)

ZINO000-70
Type C Adapter Cable (Black)

ZINO000-71
Iphone Adapter Cable (Black)

ZINO000-42
USB Charging Cable

ZINO PRO Parts & Accessories Diagram

ZINO000-72
Decoration Sticker (Black)

ZINO000-51
Carrying Case

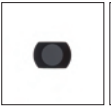
ZINO000-52
Adapter (CN)

ZINO000-53
Car Charing Cable

ZINO000-54
32G SD / TF Card

ZINO000-55
SD / TF Card Reader

ZINO000-58
HY010C gimbal

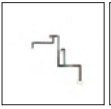


ZINO000-73
ND Filter (ND 4/8/16/32)

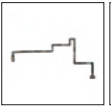
ZINO000-74
Gimbal Calibration Cover

ZINO000-77
Gimbal Calibration Protection Cover

ZINO000-79
Transmitter Antenna Set (Black)



ZINO000-80
HY010C Drive FPC



ZINO000-81
HY010C Image FPC

ZINO000-82
Adapter (Korea)

ZINOPRO-08
Left front black arm (ESC)

ZINOPRO-09
Right front black arm (ESC)

ZINO000-89
Left rear black arm (ESC)

ZINO000-90
Right rear black arm (ESC)

Limitation of Liability

Hubsan accepts no liability for damages, injuries or any legal responsibili-ties incurred directly or indirectly from the use of Hubsan products under the following conditions:

1.Damages, injuries or any legal responsibilities incurred when users are drunk, under the influence of drugs or anesthesia, dizzy, fatigued, nauseous and / or affected by other conditions both physical and mental that could impair sound judgment and / or personal ability.

2. Subjective misjudgment and / or intentional mis-operation of products.

3. Any and all mental damage, trauma, impairment, illness, compensation caused / solicited by accidents involving Hubsan products.

4. Product operation in no-fly zones (i.e. natural reserves).

5. Malfunctions or problems caused by modification, refit, replacement or use with non-Hubsan accessories / parts, failure to follow the guidance of the manual in assembly or operaiton.

6.Damages, injuries or any legal responsibilities caused by mechanical failures due to natural wear and tear (aircraft flight time clocking in 100 hours or above), corrosion, aging hardware, etc.

7. Continued flight after low voltage protection alarms are triggered.

8. Knowingly flying aircraft under abnormal conditions (such as when water, oil, soil, sand or other unknown material are inside the X4, the aircraft and / or transmitter are incompletely assembled, the main compo-nents have obvious faults, obvious defect or missing accessories, etc).

9. Flying in the following situations and / or environments: areas with magnetic interference (such as high voltage lines, power stations, broadcasting towers and mobile base stations), radio interference, govern-ment regulated no-fly zones, if the pilot loses sight of the X4, suffers from poor eyesight or is otherwise unsuited for operating Hubsan products.

10. Aircraft use in or exposure to bad weather, such as a rain, wind, snow, hail, lighting, tornadoes and hurricanes.

11. Products are involved in / exposed to collisions, fire, explosions, floods, tsunamis, manmade and / or natural structure collapses, ice, avalanches, debris, landslides, earthquakes, etc.

12. The acquisition, through use of Hubsan products (specifically but not limited to aircraft), of any data, audio, video that results in infringement of law and / or rights.
13. Misuse and / or alteration of batteries, product / aircraft circuits, hardware protections (including protection circuits), RC model and battery chargers.
14. Any malfunction of equipment or accessory, including memory cards, that results in the failure of an image or video to be recorded or ot be recorded in a way that is machine readable.
15. Users who engage in reckless, unsafe flying (with or without sufficient training).
16. Non compliance with pre cautions, i nstructions, i nformation an d ope ration guidelines / methods given through official Hubsan website announcements, product quick start guides, user manuals, etc.
17. Other losses, damages, or injuries t hat are not within the boundaries of H ubsan responsibility.
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE LOCAL REGULATIONS.
HAZARDOUS MOVING PARTS KEEP FINGERS AND OTHER BODY PARTS AWAY.
Declaration of Conformity
Hereby, SHENZHEN HUBSAN TECHNOLOGY CO., LTD.,
declares this product is in compliance with the essential requirements and other relevant
provisions of Directive 2014 / 53 / EU. A copy of the original Declaration of Conformity can be obtained at the following address: 13th Floor, Bldg 1C, SHENZHEN NANSHAN SOFTWARE INDUSTRY BASE, Xuefu Road, Nanshan District, Shenzhen, China
This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European Directive 2012 / 19 / EU in order to be recycled or dismantled to minimize its impact on the environment.
For further information, please contact your local or regional authorities. Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruc-tions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged totry to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the local dealer or an experienced radio / TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interfer-ence that may cause undesired operation.

Electrical and electronic equipment that are supplied with batteries (including internal batteries)

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal. Internal / Supplied Batteries.

This symbol on the battery indicates that the battery is to be collected separately.This battery is designed for separate collection at an appropriate collection point.

Please read the operating instructions carefully before use!

Flight Academy

- Never leave units unattended when charging
- Unplug the charging cable immediately after charging
- Propellers may cause injury
- This product is not a toy
- Not suitable for children under 14 years of age

Product name: ZINO PRO
Product Standard Number:Q / HBS 001-2017
Vendor: Shenzhen Hubsan Technology Co., Ltd Address: 13th Floor, Block C, Shenzhen Software IndustrialBase, Xuefu Road, Nanshan District, Shenzhen, Guangdong Province, China
Email: service@hubsan.com
WWW.HUBSAN.COM