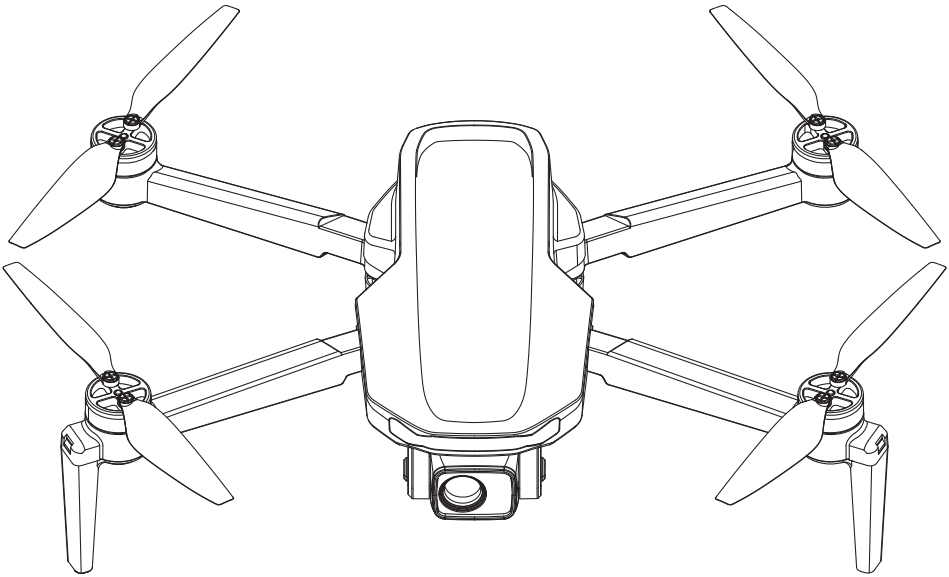
For Ages 12+

S-X1
AERIAL DRONE



Video demonstration
of drone operation

- In order to ensure the requirements of electromagnetic environment of aviation radio stations, (prohibited in the range of 10 kilometers on each side of the center line of the airport runway and 20 kilometers at each end of the runway) as well as civil aviation flight paths and routes. The use of models and drones is prohibited. The use of all types of models and drones is prohibited in the no - fly zones issued by the relevant national authorities.

- In order to ensure the electromagnetic environment of aviation radio stations, it is prohibited to use all kinds of model remote controls in the area with a radius of 5,000 meters around the center of the airport runway. During the period of radio control orders issued by the relevant state authorities, the use of model remote controllers in the area should be stopped as required.

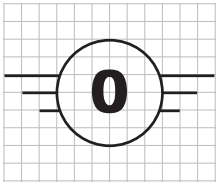
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Preamble

Welcome to our drone user manual. This manual has been carefully prepared to ensure that you fully understand the operation of your drone and use it safely and effectively. In order to enhance your flying experience while adhering to all safety regulations, this tutorial is divided into four detailed sections covering everything from basic safety knowledge to flying techniques.

- Features and important information about the S-X1 drone



1. UAV weight: 237g; UAV max size: 380*335*65mm;
   Drone frequency band: 2400MHZ - 2485MHZ
2. Options: control drone flight equipment; remote control
3. Maximum take - off mass (MTOM) of the drone: 237g (including battery and paddles)
4. Maximum drone flight speed: 7 meters per second
5. Maximum reachable altitude: 500 meters
6. Drone category: C0
7. the drone does not have the ability to carry loads with items other than its own paired battery and paddles.
8. Drone Remote Control Equipment and Software: Equipment: Remote Control / Software: HFun Pro .
9. Description of Drone and Drone Behavior in case of Data Link Loss: When the data link is lost, the drone automatically returns to the take-off point.
10. Operation Restrictions: Avoid outdoor operation under strong wind or thunderstorm conditions, and ensure night flights are within visual range.
11. This drone is only suitable for operation by individuals aged 12 and above. To ensure flight safety, please avoid flying near airports, highways, train stations, subway stations and densely populated urban areas.

Drone Handbook

Part I: Security Guidelines

It is vital to know all safety - related information before you start using your drone. This section provides basic safety rules and guidelines to prevent potential injury or damage. Following these basic guidelines will not only ensure your safety and the safety of those around you, but will also protect the drone from damage.

Part II: Introduction to Product Components

To familiarize you with your drone, this chapter details the names, functions, and operations of the various components. By learning the basics of your product's components, you can quickly diagnose problems as they occur and more effectively utilize your drone's diverse capabilities.

Part III: Flight Tutorial

This section provides a comprehensive overview of the basic setup steps and operating techniques in helping beginners easily master drone enablement and basic flight maneuvers. Once you have mastered the basic operation of your drone, this section will further guide you in improving your flying skills. The content includes detailed flight procedures, operating tips, use of advanced features, and strategies for potential emergencies. Whether you are just starting out or are an experienced pilot, these in-depth tutorials will provide valuable guidance and advice.

- We recommend that you read each section of this manual carefully to fully understand all of the drone's features and safety measures. We want you to find fun and safety when using your drone. Thank you for choosing our products and enjoy your flight!

Flight environment requirements

Indoor flying

Please choose a spacious indoor area and make sure there are no obstacles, people or pets around for flying. Please ensure that babies and young children are kept at a safe distance and avoid any physical contact with the drone to prevent unnecessary accidents.



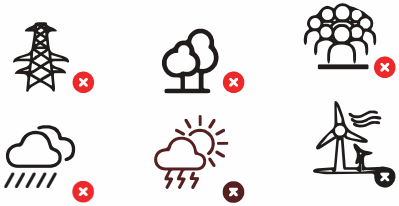
Outdoor flying

Please choose a sunny, windless or breezy day. Choose a location that is free of obstacles, crowds, pets, passersby, high walls and trees. Stay especially away from heat sources, electrical wires or electronic power sources to avoid collisions, entanglements, fires, electric shocks and other potentially disastrous accidents.



⚠ Caveats:

1. Keep the UAV in line of sight during flight and avoid obstacles such as power lines, trees, crowds, etc.
2. Do not fly in extreme weather conditions, including extreme cold, heat, strong winds and heavy rain.

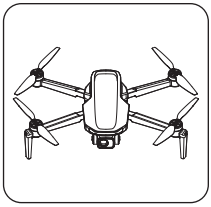


Pre-flight precautions

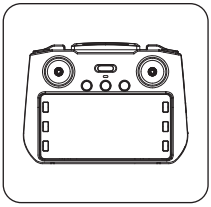
1. To avoid damage or loss of the drone due to improper operation, beginners are advised to read the manual and watch the instructional video carefully before flying. Keep the flight distance within 98 feet / 30 meters, and only try high altitude flight after three days of low altitude flight practice.
2. Gyro calibration must be performed before each take off. Otherwise, the drone may fly unstably or even lose control .
3. The maximum connection distance between the remote control and the drone is **1-5 kilometers** . Do not fly beyond this range as it may cause the drone to crash or be lost due to loss of control (in jamming-free mode) .
4. The maximum connection distance (i.e., the data transmission range of the drone) between the mapping transmitter and the drone is **1-5 kilometers** . Exceeding this distance may cause problems receiving photos, videos, etc. (in jamming-free mode) .
5. Keep the drone within line of sight when flying. 6.
6. When the drone takes off, please keep your distance (it is recommended to keep a distance of more than 6.5 feet / 2 meters) and do not touch the drone during flight to avoid being injured by the rapidly rotating propellers .

Drone Handbook

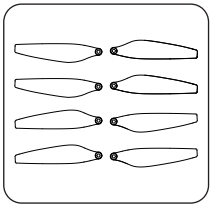
Accessory List



Airplane (with battery) x 1



Remote control x1



Spare propeller Ax4 Bx4



Screwdriver x 1

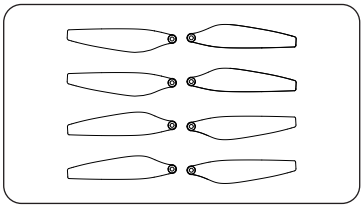


USB charging cable x 1

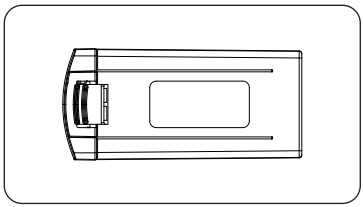
⚠ Caveats:

If you purchased the dual battery version, the package will include 1 additional spare battery. If you purchased the 3 - battery version, the package will include 2 additional spare batteries.

Other drone accessories available for purchase



Spare propeller Ax4 Bx4



Battery



USB charging cable x 1



Brushless motor

Preamble

Welcome to buy this product, in order to make it easier and more convenient for you to use this aircraft, please read this manual in detail before operation, and please keep this manual as a reference for future adjustments and maintenance.

Statement

1. This product is not suitable for people under 12 years old. This product is a toy drone that integrates specialized knowledge of mechanics, electronics, aerodynamics, and high - frequency transmitter, and requires proper assembly and commissioning to avoid accidents. The owner of this product must use a safe way to operate the control; improper operation may cause serious personal injury or property damage.
2. This product is intended for people who have experience in operating model aircraft and are not less than 12 years of age.
3. In case of use, operation, maintenance and other problems. Please contact the local distributor or the relevant personnel of our company.

Safety Precautions

Keep away from crowds when flying RC model airplanes. Improper assembly or damage to the body, poor electronic control, and unfamiliar operation may lead to damage to the aircraft or personal injury and other unpredictable accidents. The operator must pay attention to the safety of flight and must be aware of his / her responsibility beyond his / her own negligence.

1. Keep away from obstacles and crowds

Remotely piloted aircraft flight with uncertain flight speed and state, there are potential dangers, flight must be far away from the crowd, high-rise buildings, high-voltage power lines, etc., and avoid flying in the wind, rain, thunder and lightning and other inclement weather, in order to ensure the safety of the pilot / the surrounding crowd and property.

2. Keep away from humid environments

The interior of the aircraft is composed of many sophisticated electronic components and mechanical parts, so it is necessary to prevent the aircraft moisture or water vapor into the body, in order to avoid mechanical and electronic components failure and cause accidents.

3. Use this product correctly and repair it with original parts to ensure safe flight. Operate and use the product within the scope of its function, and do not use it for illegal purposes other than those permitted by safety laws and regulations.

4. Avoid manipulating alone

Remote Control Aircraft (RC) maneuvering skills are difficult to learn at an early stage, so avoid flying alone and require the guidance of an experienced person.

5. Safe operation

Please operate the RC aircraft according to your own condition and flying skills. Fatigue, poor mental health, or improper operation will increase the risk of accidents.

6. Keep away from high-speed rotating parts

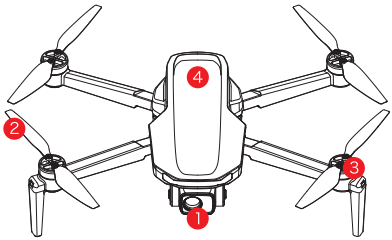
When the rotor of the aircraft is rotating at high speed, keep the pilot, surrounding people and objects away from the rotating parts to avoid danger and damage.

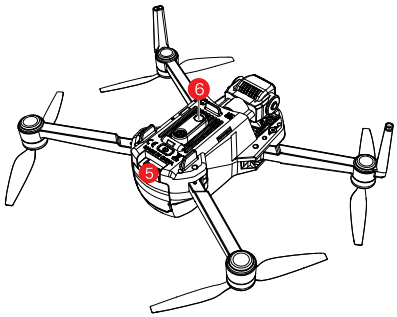
7. Keep away from heat sources

RC aircraft is composed of metal, fiber, plastic, electronic components and other materials, so we should try to stay away from heat sources, to prevent sun exposure, to avoid deformation or even damage caused by heat. Therefore, it should be kept away from heat and sunlight as much as possible to avoid deformation or even damage caused by high temperature.

Aircraft

1. Names of flight components



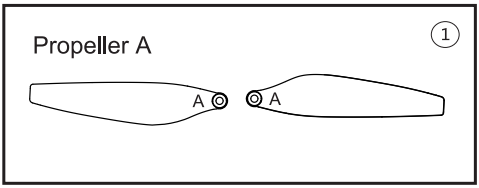


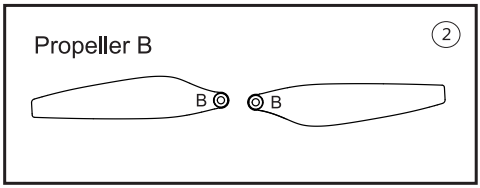
1.3-Axis Gimbal 2.Propellers 3.Motor 4.Outer Shell 5.Li-Ion Battery 6.Bottom Optical Flow Lens

2. Propeller installation

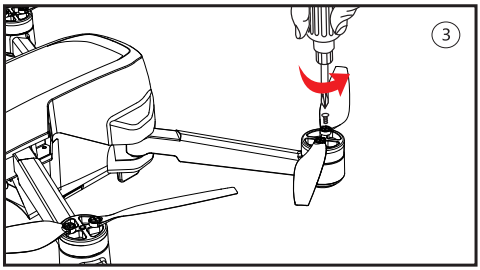
The air blades used in this product are divided into A and B air blades, if damaged, please use the spare air blades in the accessory kit for replacement.

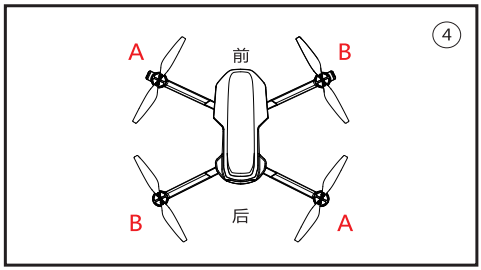
⚠ (1) When installing for the first time, please distinguish the air blade model carefully.





⚠ (2) Against Figure 3, use the equipped screwdriver to unscrew the screws of the wind blade to be replaced, remove the original wind blade, install the new wind blade to be installed, and re-lock the screws.

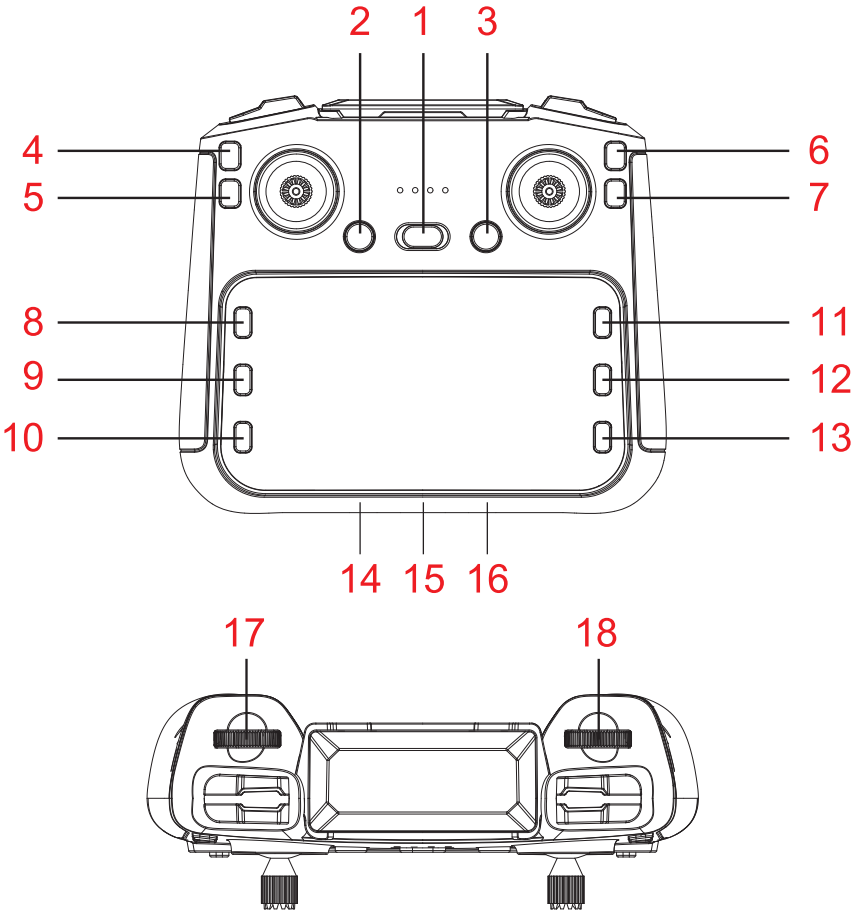




⚠ (3) Compare with Fig. 4, please check whether the model of wind blades on the craft is the same as the figure, please install the wind blades in the correct position, otherwise the craft will not fly normally.

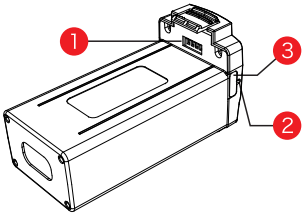
Remote controls

1.Remote control function



1. power switch
2. release
3. GPS Switch
4. headless mode
5. Gyro Calibration
6. One-click return
7. geomagnetic calibration
8. take a picture
9. videotape
10. return to
11. upwards
12. downturn
13. playable
14. Charging Socket
15. Memory Card Slot
16. Cell Phone Connector
17. Lens up / down adjustment
18. speed regulation

4. Aircraft lithium batteries



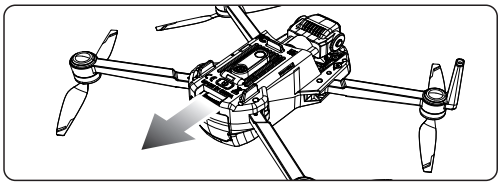
1. Battery Connector
2. Charger Indicator 3. Type-C port

MADE IN CHINA
Name of Sample: Li-ion Battery
Model No.: ZN 982558
Voltage: 7.4V
Capacity: 1600mAh
Energy: 11.84Wh
Li-ion 01
Dry Chemical
Applicant's name.: Guangdong Zeneng Electronic Technology Co., Ltd.
Address: No.101, 1st Floor, Building C1-08, Zhonghaixin Innovation Industrial Park, No. 7 Shugang Avenue, Binhai Street, Haojiang District,Shantou City
USB Input: DC 5V/1.2A

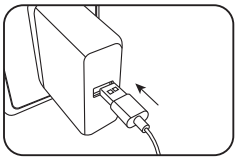
Press and hold the power button for 3 seconds to turn on the power, then press and hold the power button for 3 seconds to turn off the power.

Li-ion battery

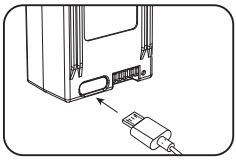
1. Charging of aircraft batteries and remote controls



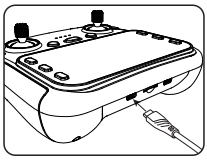
The battery can be removed from the craft by pressing the tab on the battery.



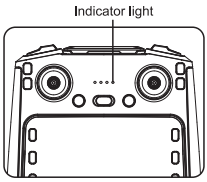
Cell Phone Adapter: 5V,1A-2A
(Requires additional purchase)



Charging time: approx. 120 minutes
(Recommended with original charging cable)



Use the original USB charging cable to connect the remote control (leftmost socket) and connect to the power supply for charging



When charging, the remote control indicator light is always on in green, red light is blinking, and off when fully charged.

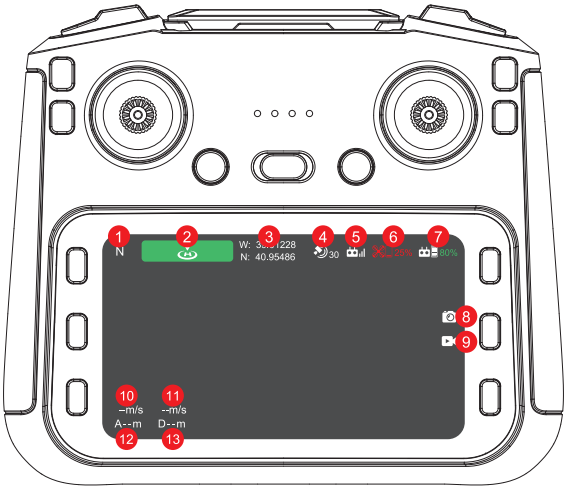
2. Lithium battery charging instructions

1. Charging: Battery indicator red light on when charging, battery indicator off when full.
2. You can use mobile power or car power supply for charging.
3. The charging time of the Li-ion battery is about 360 minutes, and the endurance time is about 25 minutes.
4. The remote control uses Li-ion battery, charging time is about 150 minutes, when fully charged, the charging indicator light is off.

⚠ Precautions when charging:

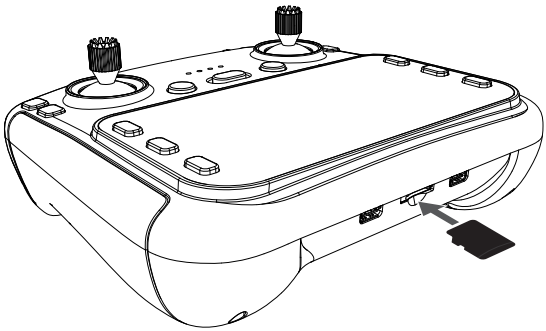
※ Do not place the battery in a hot place, such as an open flame or an electric heater, or it may be damaged or explode.
※ Do not hit or knock the battery against hard surfaces.
※ Do not disassemble the battery.
※ Do not immerse the battery in water. Store the battery in a dry place.
※ Do not leave the battery while it is being charged.

LCD Function Introduction



1. Speed Gear: shows which gear the drone's current speed is.
2. Flight Status / Mode: displays the current flight mode and status of the UAV.
3. Latitude and Longitude: shows the latitude and longitude of the drone's current flight.
4. Number of satellites: Shows the number of satellites the drone is currently searching for.
5. Remote Control Signal: Displays the current signal of the remote control.
6. Vehicle Power: Displays the current remaining power of the drone.
7. Remote Control Power: Displays the current remaining power of the remote control.
8. Photo Status: shows the current photo status of the drone.
9. Video Status: shows the current video status of the drone.
10. Vertical Speed: Displays the current vertical speed of the drone.
11. Horizontal Speed: Displays the current horizontal speed of the drone.
12. Altitude information: displays the current altitude information of the UAV.
13. Distance Information: Displays the current distance information of the UAV.

Remote Memory Card Installation



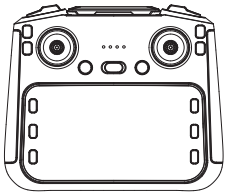
1. The photo and video functions can only be used when the drone is in flight after the screen is turned on.
2. Photos and videos can only be saved after the memory card is inserted in the remote control.

Flight Operations Instruction

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

Step 1: Turn on the remote control switch and the remote control power indicator blinks.

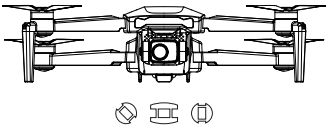
The remote control will automatically pair the frequency with the aircraft, and when the pairing is completed, the remote control power indicator light is always on.



Step 2: Power on the craft and place it on a level surface.

- At this point the vehicle placed on the horizontal plane automatically enters the frequency pairing state.
  Before frequency pairing:
  Front arm lights: Blue - - slow flash.
  Rear arm light: Green - - slow flash.

- Remote control frequency pairing success.
  Front arm light: Blue - - always on.
  Rear arm light: Green - - slow flash.

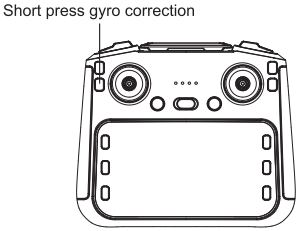


Step 3: Vehicle gyro calibration

- Short press on the calibration gyro button.

- Flyer Indicator Lights:
  Front arm lights: Blue - - fast blinking.
  Rear arm light: Green - - fast blinking.

- Turns on when calibration is complete:
  Front arm lights: Blue - - always on,
  Rear arm lights: Green - - slow flash.

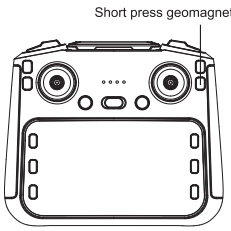


Note: Be sure to place the vehicle on a level surface for horizontal calibration, otherwise the flight attitude will be affected.

Step 4: Geomagnetic calibration

(first use requires geomagnetic calibration, subsequent use does not require geomagnetic calibration)

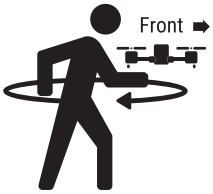
- Short press the geomagnetic correction button to enter the geomagnetic correction mode, the aircraft indicator light:
  Front arm light: Blue - - slow flash.
  Rear arm light: Green - - slow flash.



Step 5: Geomagnetic Level Calibration - - Part 1

- Pick up the craft horizontally and accompany it with your body in one complete turn (360°).
  Make a full turn (360°) and the remote control beeps.

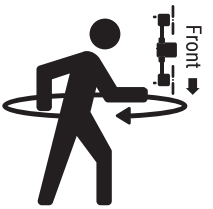
- Airplane Indicator Lights:
  Front arm lights: Blue - - always on.
  Rear arm light: Green - - slow flash.



Step 6: Geomagnetic Vertical Calibration - - Part 2

- Turn the craft nose down and accompany your body in a complete circle (360°), and the remote control beeps.

- Flyer Indicator Lights:
  Front arm lights: blue - - always on.
  Rear arm lights: green - - fast blinking - - slow blinking.



Step 7: GPS search successful.

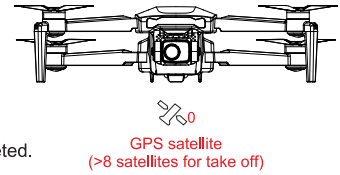
- Reposition the craft on an outdoor level surface.

- Waiting for a star search.

- This step takes a few minutes to complete.

- This step takes a few minutes to complete.

- The remote control will beep when the search is completed.
  Vehicle light status:
  Front arm light: blue - always on.
  Rear arm light: green - always on.

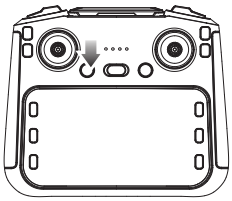


CAUTION: Please search for GPS signal in an open area, GPS signal can not be searched under indoor, tin house and other buildings.

CAUTION: The front and rear lights flash slowly when the drone is returning home with low power.

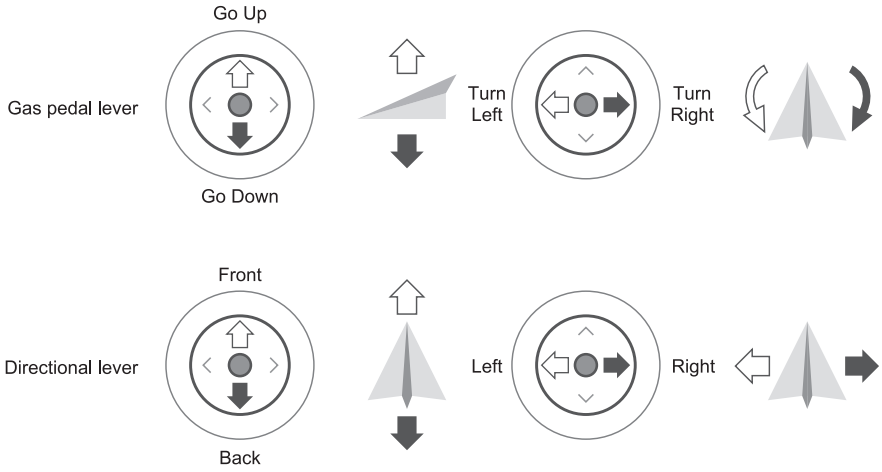
Step 8: Motor Unlocking

- Press the unlock button on the remote control to unlock the motor.
- Push the throttle stick to take off.
- Cancel Motor Unlock:Pull down the throttle for 2 seconds to cancel the motor unlock.



Tips: When the battery is low, the remote control beeps “drop” “drop” “drop”. The front and rear lights of the drone flash slowly. In this case, please stop flying as soon as possible and recharge the battery.

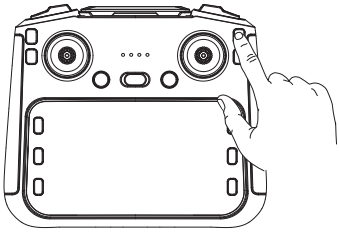
2. How to operate the remote control



1. GPS Return

The GPS Return to Home (RTH) function returns the vehicle to the take off point.
This function can only be realized in GPS mode.
There are three types of return to home (RTH): GPS Return to Home /
Low Power Return to Home / No Signal Return to Home.

GPS Return:



Tap the button on the remote control or mobile app interface, the remote control will start to beep.
The aircraft will automatically return to the vertical airspace over the takeoff point and then slowly descend to the take off point.
Press the button again to stop the return flight, or you can manually pull down the throttle stick and direction stick to lower the aircraft to a safe area.

② Low Power Return:

Low battery return is triggered when the battery is low.
When Low Power Return is activated, the vehicle will automatically return to the airspace approximately 30 meters away from the operator, who can manually operate and control the vehicle.
The vehicle can also be landed in a safe place by pulling down on the throttle stick.
When the power is depleted, the vehicle will automatically return to the takeoff point.

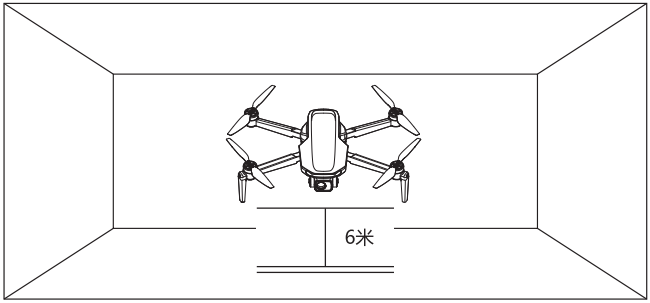
(Note: Please do not push the steering stick forward when entering low power return, if you do, the return will be invalidated and the aircraft will be lost)

③ Returning without signal:

If the vehicle loses connection with the remote control, the vehicle will automatically enter the return mode. The vehicle will automatically return to the takeoff point, and the vehicle will be paired with the remote control during the return process. If the connection is successful, the operator can control the vehicle again.

2. Optical flow localization

The vehicle is equipped with optical flow positioning, which allows the vehicle to hover stably at low altitude.



⚠ Note:

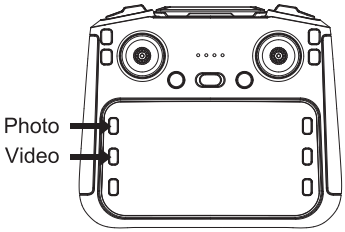
(1) Optical flow positioning needs to assist flight in the surrounding environment with sufficient light and rich texture, it can not completely replace the user's judgment, please pay attention to the situation of the aircraft and the APP prompts, do not overly rely on the optical flow positioning.

(2) The effect of optical flow positioning is not good or ineffective in the environment of too bright, too dark, mirror surface, solid color smooth ground, water, reflective surface, sparse texture surface and other scenes.

(3) The best working range of optical flow positioning is between 0.5 - 6 meters, beyond this range, the positioning of optical flow positioning may not be effective, please fly with caution.

(4) Please make sure that the optical flow positioning lens is clear and free of stains and obstructions.

3. Explanation of camera functions



Photo

Video

Icons on the APP

① Tap the button on the remote control, or tap the button on the APP interface, the Photo indicator on the remote control display blinks once, indicating that a photo is taken.

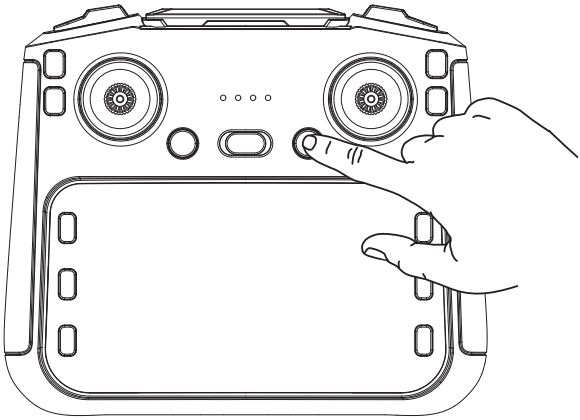
② Long press the button on the remote control once, or tap the button on the APP, the video indicator light on the remote control display is always on, indicating that the video is being recorded.

③ Press or again to stop recording and save the video to APP album.

4. With GPS mode/without GPS mode

(Indoor mode needs to be switched to GPS - free mode)

In GPS signal poor environment, such as indoor or complex environment, long time can't search GPS satellite signal, if you need to take off then you can long press the GPS button on the remote control for 3 seconds to turn off the GPS mode, the remote control display will become P - OPTI state, the aircraft into indoor mode, you can take off, but GPS all functions are off.



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

GPS Mode

It is the UAV using GPS module positioning, when the GPS mode is turned on, the UAV with the barometer can be fixed point, fixed height precision hovering flight, the difficulty of the flyer to operate the UAV is greatly reduced, at the same time, with the ground station system to realize the autonomous route flight, real - time to the ground station to send the position of the aircraft is located. In the case of poor GPS signal the UAV can not realize precise hovering, only provide attitude stabilization, the UAV is equivalent to attitude mode at this time.

Attitude Mode

Attitude mode is when there is no GPS positioning, the flight control only provides attitude stabilization, attitude mode is commonly used in some cases where the GPS signal is poor. The UAV mainly uses IMU inertial measurement unit (barometer, angular velocity meter, accelerometer) to locate its own state, in this case, the UAV will flutter around without precise hovering, and the pilot is required to correct the position of the UAV continuously through the remote control. Therefore, the pilot is required to have a high level of skill in operating the drone, and when taking the drone pilot license exam, the over-the-horizon level of flight must be flown in attitude mode. The main purpose is to train drone pilots to have better piloting skills in order to pilot in complex terrain and rescue the aircraft in emergency situations.

APP usage instructions

HFun+

- Please note
- Control interface

  Introduction to the control interface

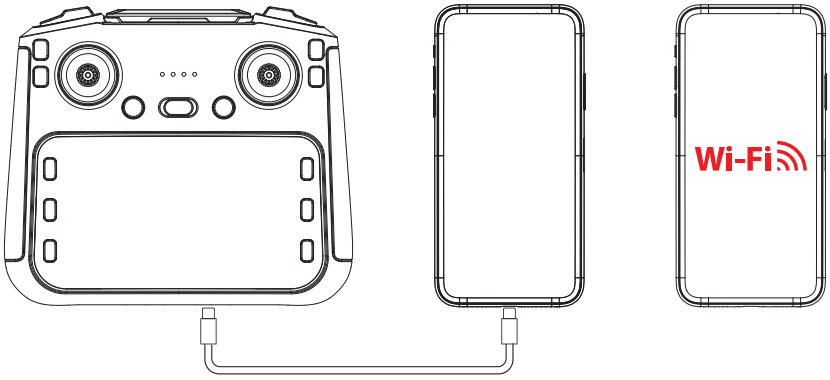
  Functional description of the control interface

  Gesture recognition function

- Mv interface

  Mv interface introduction

APP Usage instructions



Two types of connection: one is directly connected via cell phone WIFI, and the other is connected to the cell phone via data cable, which can be transferred at the same time.

Software Installation Instructions

1. Installation of the mobile client

Please scan the QR code below to download the mobile app from the corresponding website.

ios

Android

2. Connecting the aircraft WIFI

1. Power on the aircraft
2. Find the hotspot “HY-GPS-YT-003-XXXXXX” in “Settings - WLAN” of your cell phone.
3. Tap this hotspot network (no password) and the phone will connect automatically.

⚠ **Note: Your cellular WIFI needs to support IEEE 802. 11 a/b/g/n/ac, i.e. 5G band WLAN**

3. Recommended model configurations

1. ios

Model Configuration	Recommended Configurations	Optimal configuration (2K support)
Product Model	iphone 6 and above	iphone 7 and above
System version	ios 8.0 and above	ios 9.0 and above

1. Android

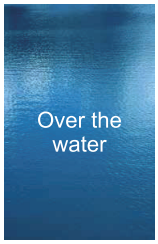
Model Configuration	Recommended Configurations	Optimal configuration (2K support)
CPU Model	Snapdragon 630 and above Samsung Exynos 7420 and above MediaTek Helio X25 and above Kirin 950 and above	Snapdragon 835 and above Samsung Exynos 8895 and above MediaTek Helio X30 and above Kirin 970 and above
System version	Android 5.0 and above	Android 8.0 and above
Memory size	3G and above	6G and above
CPU utilization	Occupancy rate 25% and below	Occupancy rate 10% and below

Cleaning up the backend program can effectively reduce CPU usage.

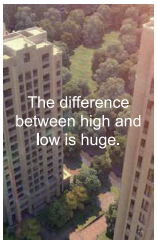
Please note

Note: One craft, at the same time, allows only one mobile app to connect!

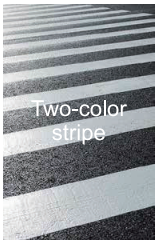
⚠ Note:The optical flow of the lower lens does not hover well when the vehicle is in the following environments, which will make it difficult for the vehicle to fly smoothly, resulting in fuselage shaking.



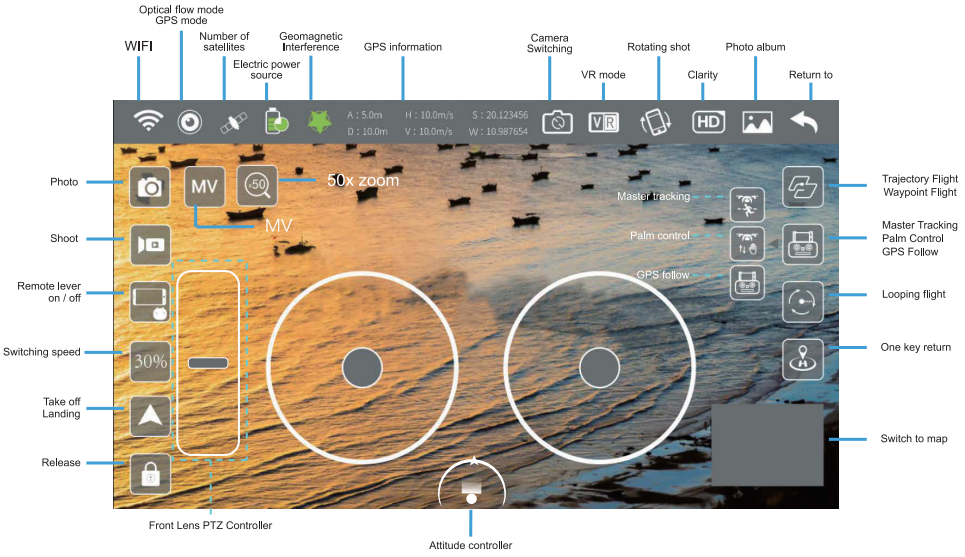




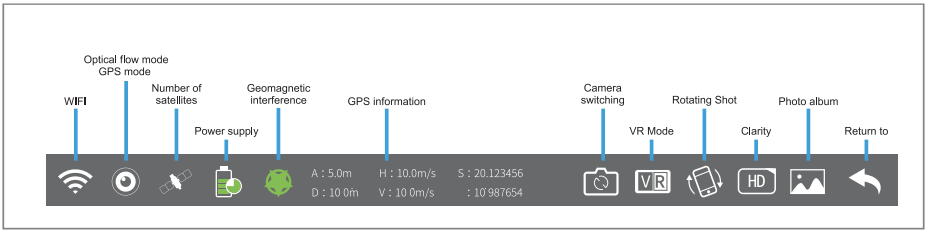




Introduction to the control interface



Functional description of the control interface



WiFi: Indicates the strength of the mapping signal.

Satellite signal: Indicates the current flight mode and the number of satellites; blinking indicates the current optical flow fixed point mode, no return, follow, surround and pointing flight functions. Constant light indicates the current GPS mode.

Capacity: (Vehicle power status)
(1) 2 - 4 frames means normal battery, in GPS mode can operate normal return, follow around and pointing flight function.
(2) 1 cell (blinking status) indicates that the aircraft is in low battery status, the aircraft will perform the automatic return function; there is no following, circling and pointing flight function in low battery status.

GPS signal: Displays the altitude, distance and corresponding latitude and longitude of the current vehicle from the return point.

Camera switching: Switchable front and bottom lenses;

VR mode: Click to enter VR mode.

Rotating lens: Click to rotate the lens.

Clarity: Switchable between HD and SD sharpness.

Albums: Photos and videos can be viewed.

Multi-camera function description

Toggle Lens

Click the “Switch Lens” button to switch the following three function states in turn:

(1) Normal front lens (2) Downshots (3) Picture in Picture

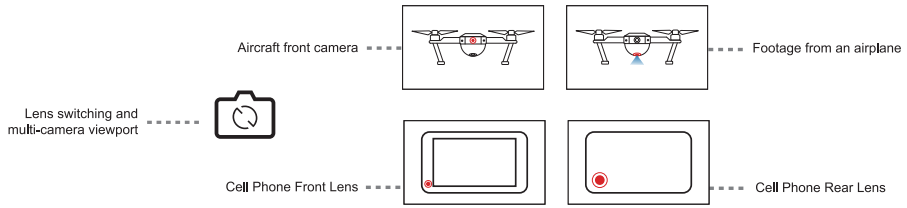
When the [Switch Lens] button is not clicked, the default is the normal front lens function.

* Picture in Picture

In Picture-in-Picture, you can view the video of the lower lens of the aircraft in real time; in the control page, after clicking the switch to turn on Picture-in-Picture, the lower lens of the aircraft and the video captured by the front lens will be displayed together;
(4K footage of WI-FI airplanes not supported)

- When Picture-in-Picture is on, if you enter MV mode at this time, you can record two shots of V-video at the same time.

Multi-camera function description

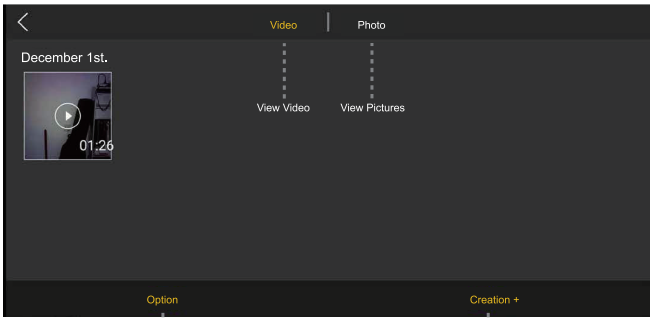


Lens switching and multi - camera viewport: (Supported by some models)

In the unfolding button, free to switch the drone's up and down lens, picture-in-picture
(4K lens Wi-Fi aircraft does not support);
as well as combined with the cell phone camera to achieve the free combination of multiple windows.

Album Description

Photo album ------ Click on Albums to view photos and videos and enter the creation screen.



Select image / Video

Access to the creation screen

Functional description of the control interface

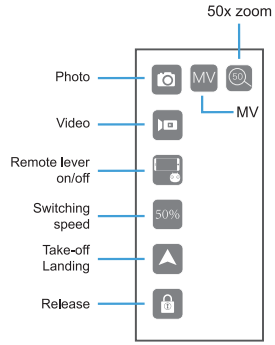


Photo: Click the button to take a picture according to the current lens (front lens or bottom lens)

Video: Click on the button to take a picture according to the current shot (front shot or bottom shot)

Remote lever on / off: Tap to switch between cell phone control or remote control.

Switching speed: Display the current status of fast and slow gears, and click to switch fast and slow gears in the cell phone control mode.

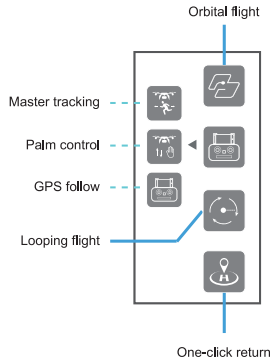
Take-off / Landing: Click after unlocking for one - touch take off or one - touch landing.

Release: Once calibration is complete, place the craft horizontally and click the unlock button to begin flight operations.

MV: Click on the button to open the MV screen that

50x zoom: Once opened, you can adjust the zoom magnification of the lens view by adjusting the right slider bar, and slide your finger across the screen to move the viewing range of the view when it is enlarged.

Functional description of the control interface



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

Orbital flight: In optical flow mode, the vehicle will fly according to the selected position.

Master Tracking: Click Master Tracking in Lightstream Mode and the craft will follow the target character.

Palm Control: Click " Palm Control " in optical flow mode, the craft will follow the palm up and down.

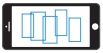
GPS Follow: In GPS mode, click this button, the craft will follow the phone in flight

Looping flight: In GPS mode, the nose of the aircraft will take the current position of the aircraft as the centerof the circle to make a clockwise or counterclockwise circle flight.
During the loop, you can control the up, down, forward and backward adjustment.

One-click return: In GPS mode, click to realize one-touch return.

Functional description of the control interface

Master Tracker



(1) Click the “Master Tracking” button in optical flow mode and a blue target character candidate box appears on the screen.



(2) On the screen, tap the target person with the touch of your finger.



(3) The blue box will change to red when the target person is locked. (make sure the red box target person is in the middle area of the screen).



(4) When the horizontal distance between the flying machine and the target person is about 2m, the tracking flight will start. If the target figure is lost, it is necessary to re-tap the target figure.

Following is most effective when the red frame covers more than 80% of the area of the human figure.

Palm control

(1) Click the “Palm Control” button in optical flow mode.

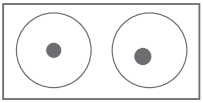
(2) Face the camera of the aircraft with one hand held flat; and

(3) When the palm of your hand is framed by the red box on the APP, move your palm gently;

(4) At this point, the craft will follow the palm of your hand up and down;

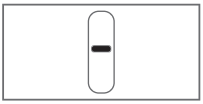
Control is best when the distance between the palm of the hand and the camera is about 1m.

Functional description of the control interface



Telecontrol rod

The left stick controls the vehicle up, down, left turn and right turn; the right stick controls the vehicle forward, backward, left and right.



Front Lens Head Controller

After the vehicle takes off, the front lens gimbal controller will be displayed on the left position of the screen.
At this time, if you move the slider of the controller upward, the front lens of the aircraft will move upward by a certain angle; if you move the slider downward, the front lens of the aircraft will move downward by a certain angle.

Share

After tapping the button at the top right of the screen on the control page, you enter the album screen. When tapping to view photos or videos, users can share photos or videos to major social media platforms with the button on the top right corner.

Gesture recognition

Facing the front lens of the camera, make the following gesture to trigger the automatic photo or video function of the aircraft:



At about 2m directly in front of the aircraft's lens, make a Yeah gesture with one hand raised flat; after the aircraft successfully recognizes the gesture, count down for 3 seconds to start taking pictures.



At about 2m directly in front of the aircraft's lens, hands were placed at the chin position of the face in a boxed video recording gesture. When theaircraft successfully recognizes the gesture, the video recording starts. End the video recording when the gesture is recognized again
(the time difference between the two recognitions should be more than 3 seconds)



In the aircraft lens directly in front of the 2m or so, close the five fingers of one hand flat; to be successfully recognized by the aircraft gestures, that is, to start video recording. When the gesture is recognized again, the end of the video
(the time between the two recognition should be more than 3 seconds)

*** Please note**

To ensure that the lens gets a high recognition rate

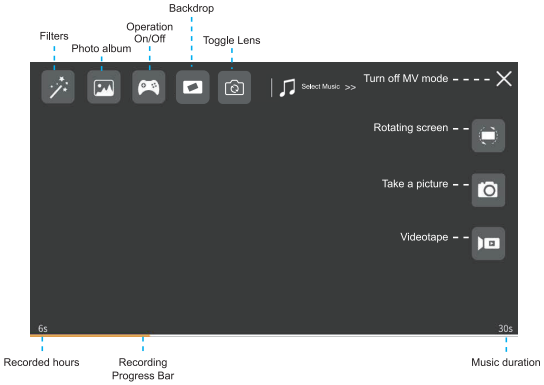
1. Please face the camera.
2. Please fly in a better lighted environment.
3. Please be about 2m away from the lens for the gesture recognition operation.
4. please user's face is facing the camera; (face - assisted features)

The lens recognition rate decreases in the following cases

1. Low light, or backlit environments.
2. WiFi signal is weak, or the signal is not disturbed.

MV界面简介

On the control page tap the top left corner of the screen MV button, you will enter the MV interface. In the MV interface, you can shoot music videos.



Rotating screen

Click the button to enable the rotating screen function, at this time, the finger slides on the screen, you can rotate the image; if the finger double-click on the screen at any position value, you can zoom in on the image in an instant
(This function is also applicable when recording video).

Frequently Asked Questions

1. The mobile device and the remote control cannot be connected.

① See if the status of the signal icon changes

2. Stuck or prone to uncontrolled disconnections in graphic transmissions.

① Adjust the angle of the antenna to align with the airplane without any obstruction in between.

② Change of flying site, do not fly near tall buildings and cell towers.

③ Update the latest firmware of the aircraft.

3. Unstable hovering of the aircraft.

① Change the flying site, do not fly near tall buildings and signal towers.

② Do compass calibration and leveling.

③ Determine whether the wind is too strong to affect the flight.

④ Judge whether the wind blade and arm are deformed.

4. Inaccurate GPS accuracy of the aircraft or inability to pass the GPS accuracy test.

① Search GPS up to 8 and above in outdoor open area.

② Close walk around the vehicle.

③ Replacement of mobile equipment.

④ Do not test under high floors.

5. Batteries not charging.

① Re-plugging the charger and battery.

② Replacement of the charger.

6. Short flight time.

Over-charging and over-discharging of the battery or high temperature environment will easily lead to a reduction in battery life, it is recommended to keep the battery at about 60% of the remaining power, and then fully charged before use.

7. Poorly photographed.

① Check to see if the lens protection film has been removed.

② Use in a well-lit environment.

8. The lens is hazy and foggy.

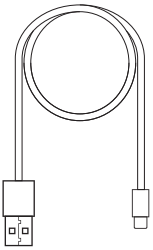
① Lens fogging due to humidity, change aircraft storage location.

② Place desiccant in the protective cover of the head when storing.

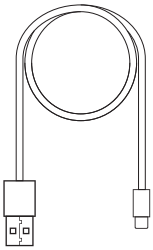
9. Loss of pictures or videos taken.

Recorded video should be ended, otherwise the video may be corrupted or lost.

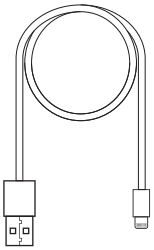
Accessory List



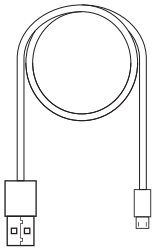
Huawei Charging Cable
X2



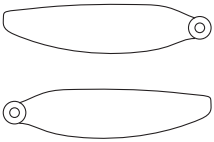
Huawei Data Cable
X1



Apple Data Cable
X1



Android Data Cable
X1



Propeller A X4

Propeller B X4



说明书 X1

Care and Maintenance

1. Always clean this product with a clean, soft cloth.
2. Avoid exposing this product to sunlight or heat.
3. Do not immerse the product in water, as this may cause damage to the electronic parts.
4. check the plug and other accessories regularly, if you find any damage, please stop using it immediately until it is completely repaired.

Drone Handbook

Why do drones go out of control when using a remote control?

1. Operational error:

a. The operator may accidentally press the wrong buttons or may not yet be familiar with the directional control of the joystick, causing the drone to behave differently than expected.
b. The operator may confuse the two modes of directional control of the UAV, i.e., normal mode and headless mode.

2. Signal interference: If there are many wireless signals or signals from other devices nearby, they may interfere with the connection between the remote control and the drone.

3. Low battery: Low battery of the remote control or drone may affect their performance, resulting in ineffective control or delayed response.

4. Excessive distance: If the drone flies out of the maximum control range of the remote control, the connection with the remote control may be lost.

5. Environmental factors: Strong winds or other environmental factors may affect the drone's flight path, making it appear to be out of control.

6. Hardware malfunction: Some components of the remote control or drone may malfunction or become damaged, causing them to not work properly.

⚠ If you are experiencing this situation, it is recommended to find a safe place for an emergency landing and then troubleshoot and deal with it. If possible, consider flying again in an area with no signal interference and always make sure the batteries in the remote control and drone are fully charged.

Overview of appendices

General Information

1. List of items, including qualified accessories:
- Model: S-X1 Propellers; Weight (4 pairs): 6.3 grams; Dimensions: 65.8 mm X 4.6 mm X 2.35 mm; Maximum Speed: 11,000 RPM
- Model: S-X1 Battery (Model: ZN 982558); Weight (1): 69grams; Dimensions: 72 mm X 34 mm X 39 mm

2. List of drone combinations:
- Combo 1: S-X1, S-X1 remote control
  Remote control auto pairing, manual mode.
- Combo 2: S-X1, cell phone app (WiFi drone)
  App Pairing: automatically pair with drone after clicking app control button, manual mode.

3. Distinguishing by similar products from the same manufacturer:
- Similar products from the same manufacturer can be distinguished by product model and exterior color.

MTOM Statement

The maximum takeoff mass (MTOM) of the S-X1, including the airplane, propeller, and batteries, is 231 grams total, which meets Category C0 standards. There is no additional payload.
2. To ensure that your S-X1 UAV is C0 compliant, it is critical to follow the maximum takeoff weight regulations. The user must follow the instructions below:

- Calculate takeoff weight: Before takeoff, add the weight of the drone (including the battery and any installed accessories) to the expected additional payload.
- OVERWEIGHT WARNING: Failure to comply with the above requirements may result in reduced flight stability, operational difficulties, and increased risk of accidents. In addition, the product will no longer meet C0 requirements.
- COMPLIANCE: Ensure that all local and international aviation regulations are followed when operating the drone to avoid legal liability and potential safety hazards.

Equipment for remote control of drones

1. Remote Control Model: S-X1 RC
2. Application: HFun Pro
   - Apps: HFun Pro comes with “App Manual”, compatible with Android 6.0 and above, and iOS 9.0 and above.
3. Alert description
   - Low Battery Alert: Beep beep beep beep as a warning.
   - Auto Frequency Pairing: A single “beep” sound is emitted to indicate successful pairing.
   - Headless Mode: Short press the Headless Mode button on the remote control, a long “beep” sound will be emitted to indicate headless mode.
   - Speed mode switching: Press the speed mode button; a single “beep” sound indicates slow mode, two “beep beep” sounds indicate medium mode, three “beep beep beep” sounds indicate fast mode. Two “beep beep” sounds indicate medium speed mode, three “beep beep beep” sounds indicate fast mode.
   - Remote control activation: two fast beeps when the remote control is turned on.

Loss of command and control link:

1. The S-X1 UAV can fly at a maximum altitude of up to 100 meters above the take-off point. When the drone reaches this altitude, the system will automatically prevent it from rising further, but it can still be operated in other directions.
   During flight, environmental factors or signal interference may cause the UAV to lose control and descend uncontrollably, making it difficult for the pilot to effectively control the UAV's ascent or other maneuvers, thus increasing flight safety risks.
   To ensure safety and prevent loss of the drone, users should fully understand and comply with the 100-meter altitude limit before operation. Please pay attention to the surrounding environment and fly in areas with strong signals to avoid flight risks.
2. How the drone reacts when the remote control is disconnected:
   - The drone's indicator light will start flashing, then the drone will slowly descend.

Operator Health Precautions

1. When operating the drone, make sure the operator (you) is sober and alert and not under the influence of alcohol, drugs or other substances. In addition, avoid flying if you feel dizzy, fatigued, nauseous, or any other health condition that may affect the safety of the operation.

Ground Services - Related Guidelines

1. Handle energy storage (batteries) safely:
- When installing and replacing batteries, ensure correct polarity and avoid using damaged or incompatible batteries.
- Use the original charging cable when charging, avoid charging near flammable materials, and ensure that the charging ambient temperature is between 0°C and 40°C.
- Disconnect the power supply immediately after charging is completed to prevent overcharging.
- If the battery swells, leaks or other abnormalities, stop using it and deal with it promptly.

2. Cleaning and maintenance:
- Clean the exterior of the drone and the propellers regularly to ensure that there is no dust, dirt or foreign matter on the device.
- Check every part of the UAV, especially the moving parts and connection points, to make sure there is no wear or damage.

3. Calibrate before takeoff:
- Make sure the drone is placed on a level surface before turning on the drone and remote control.
- Follow the steps in the manual for one-button calibration and frequency pairing to ensure the drone's flight attitude is accurate.

4. use of plugs and protective covers:
- Protect the electronic interface and plug from dust and moisture when using and storing the remote control and other accessories.

5. Selection of flight environment:
- Choose an open and unobstructed environment for flying, avoid flying in crowded or animal-infested areas.
- Avoid flying in extreme weather conditions such as strong winds, rain, snow or extreme temperatures.

Transportation and storage of drones, equipment for remote control of drones, and batteries.

1. Packaging of the drone and remote control:
- Pack the drone and remote control using the original packing materials or equivalent protective materials to prevent shock or pressure damage during transportation.
- Ensure that each component of the drone and remote control is securely fastened to avoid damage due to movement.

2. Safe transportation of batteries:
- Avoid exposing the battery to extreme temperatures or direct sunlight to prevent overheating.
- Comply with local transportation regulations, especially regarding lithium batteries.

3. storage environment:
- Store the drone and remote control in a dry, clean and temperature-appropriate environment, avoiding humidity or extreme temperature conditions.
- The storage area should be away from any potential heat sources such as heaters or direct sunlight to prevent material deterioration or equipment damage.

4. Long-term battery storage:
- If the battery is not to be used for an extended period of time, keep the battery at approximately 50% charge and avoid fully charging or completely discharging the battery.
- Regularly check the condition of the stored batteries, charging and discharging them at least once every three months to keep them active and safe.

5. Inspection and Maintenance:
- Regularly inspect the stored drone and remote control for any signs of physical damage or abnormal functioning.
- Ensure that all connections and interfaces are clean and dust-free to prevent corrosion or poor contact during long - term storage.

Post-Flight Operations - To ensure the safety and performance of the S-X1 drone after each flight, the operator must perform a thorough visual inspection, including checking the battery and all critical components. Detailed inspection steps are listed below:

1. Battery inspection:
- Visual inspection: remove the battery and carefully inspect the battery case for signs of damage, distortion, leakage or bulging.
- Touch Inspection: Gently touch the surface of the battery to check for abnormal temperatures (too hot or too cold).
- Connector Check: Check the battery connectors and wires to make sure they are intact and show no signs of looseness or poor contact.
- Battery level check: Use the battery level detector or the drone's built-in power display function to check if the remaining power is normal.

2. Body check:
- Appearance Inspection: Visually inspect the drone's fuselage for cracks, scratches, or other physical damage, especially in the arms and propeller mounting areas.
- Structural Integrity: Gently shake the UAV to check for loose parts or unusual sounds to ensure that the UAV is structurally sound.
- Camera Inspection: Inspect the surface of the drone's camera to ensure it is clean and free of scratches or other damage to ensure proper operation.

3. Propeller Inspection:
- Appearance Inspection: Check the propellers for cracks, bends or other damage. If damaged, replace the propeller immediately.
- Installation check: Make sure the propeller is securely installed and not loose. Check that the propeller locking mechanism is working properly.

4. Motor Inspection:
- APPEARANCE CHECK: Visually inspect the motor housing for any signs of damage or deformation.
- Rotation Check: Gently manually rotate each motor to check for smooth operation without any stalling or abnormal sounds.

5. Wiring and Connector Inspection:
- Visual Inspection: Check all internal and external wiring and connectors of the drone to ensure that there are no breaks, wear and tear, or looseness.
- Connector check: Make sure all connectors are firmly connected with no signs of looseness or poor contact.

6. Remote control inspection:
- Appearance check: check the remote control case for damage or cracks.
- Function check: open the remote control and check if all buttons and levers are working properly to ensure proper connection with the drone.

Summarize:

By following the detailed inspection steps outlined above, operators can ensure the safety and performance of the S-X1 drone after every flight.

Regular visual inspections help to identify potential problems early so that timely maintenance and repairs can be performed, ultimately extending the life of the drone.

*** All information in this manual has been carefully proofread for accuracy and we reserve the right of final interpretation in the event of any typographical errors or omissions.**