

INSTRUCTION MANUAL OF FOUR-AXIS GPS



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

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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

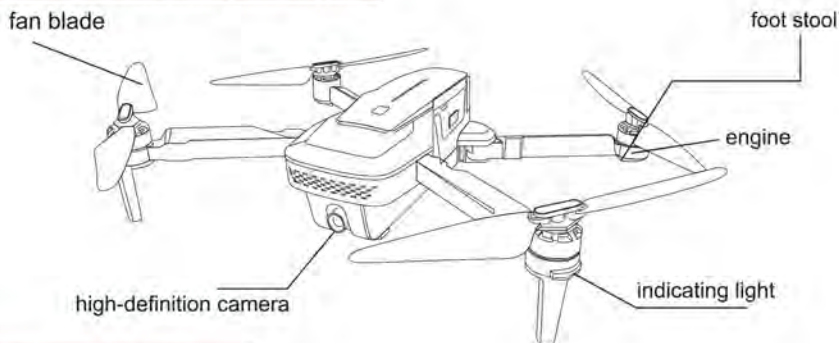
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

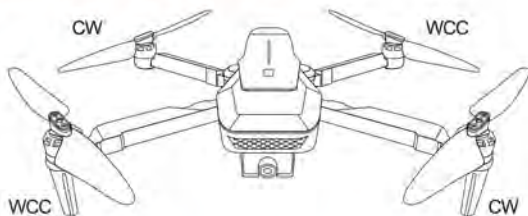
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Please read this instruction manual carefully before using
The product and keep it for future reference.

Names of the components



Propeller installation



Make sure all propellers are installed in the correct orientation as shown below. If the installation is wrong, the aircraft will not be able to fly normally.

Aircraft battery instructions

BATTERY WARNING:

Lithium Polymer batteries can expand, burst or catch fire if used incorrectly, causing both property damage and or personal injury. It is essential that you follow all the included instructions and safety warnings in full. The manufacturer, distributors and retailers will assume no liability for the failure to comply with these safety instructions and warnings.

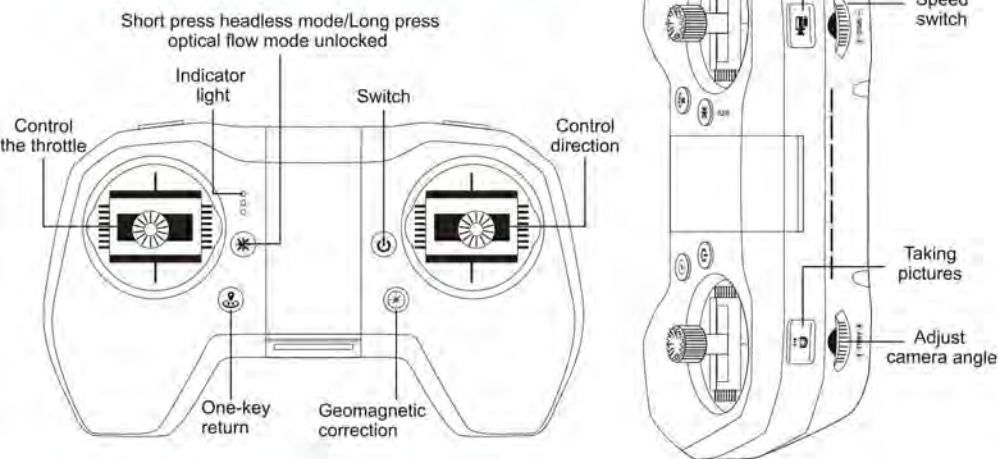
INSTRUCTIONS WHEN CHARGING:

- 1) The battery must be removed from the product before charging.
- 2) If the battery has just been used, please let it cool down to room temperature before charging.
- 3) Charging must only be undertaken by an Adult, and only using the charger included with this product.
- 4) Always charge the battery on a non flammable heat resistant surface with non flammable surroundings.
- 5) Connect the battery to the USB charging cable
- 6) Connect the USB Charging cable to your USB Charging devices. The RED LED on the battery will light up while charging, and will Turn Off once the battery is fully charged. It takes around 1A 540 / 2A 270 minutes to fully charge the battery. Never continue to charge the battery after the RED LED have Turned Off.



- 7) Lithium Polymer batteries do not last forever. If your battery becomes damaged in a crash or no longer charges properly, immediately replace it with a new battery. To prolong the life of your battery, it is always best to retain a bit of charge in your battery prior to charging it.

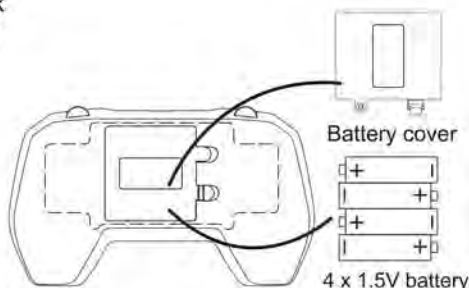
Names of the remote controller



Prepare the remote controller

As shown in the figure, please open the battery back cover of the remote controller and insert the 4X1.5V battery. After correct installation, close the back cover and lock it with screws.

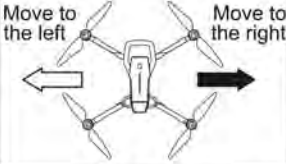
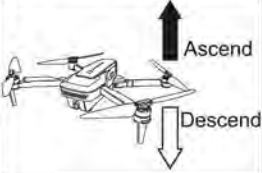
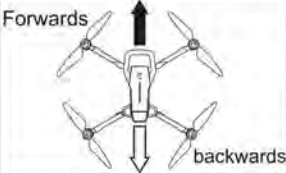
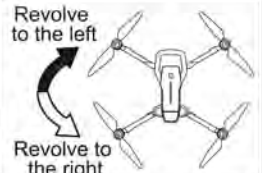
As shown in the figure, please open the battery back cover of the remote controller and insert the 4X1.5V battery. After correct installation, close the back cover and lock it with screws. The remote controller uses four pieces of "AA" non-rechargeable batteries or "AA" rechargeable batteries (purchase additionally). Please pay attention to the battery polarity in installing or replacing. The non-rechargeable batteries are not rechargeable and only the same batteries as the recommended batteries can be used. Do not mix old and new batteries or different types of batteries. Exhausted batteries should be removed in time. And discarded batteries should not be thrown randomly. If the battery will not be used for a long time, please remove the battery to avoid damage to the product caused by battery leakage.



Status prompt of the remote controller

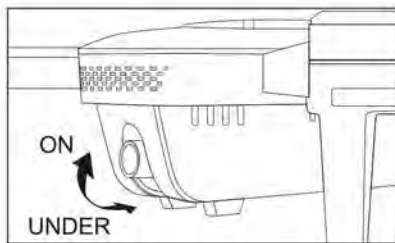
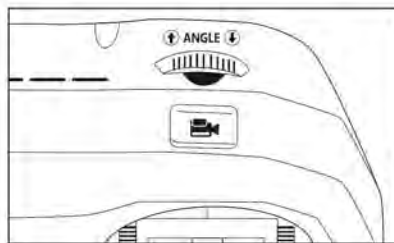
No.	Status of the remote controller	Description of the expression significance
1	The indicating light of the remote controller flashes slowly in red.	The remote controller is in the code matching mode.
2	The indicating light of the remote controller flashes slowly in red, the remote controller sounds out two discontinued di-di.	The battery of the remote controller is in the low-electricity mode, it is required to exchange the battery.
3	The indicating light of the remote controller flashes slowly in red, the remote controller sounds out three discontinued di-di-di.	There are barriers in front of the aircraft, so it can no longer fly forwards.

Flight guideline

Model	Graphic representation	Model	Graphic representation
Aileron		Accelerator	
Back and forth		Direction	

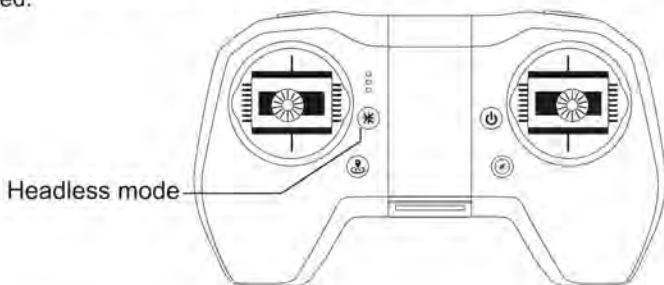
PTZ camera control

By dialing the remote control PTZ butto can adjust the shooting angle of the PTZ camera and experience a better aerial photography process. When the left button is pressed, the camera is adjusted in the ON direction; when the right button is pressed, the camera is adjusted in the UNDER direction.



Headless mode

In the headless mode, when the aircraft is unlocked, the direction pointed by the aircraft head is the dead head of the flight. During the flight, if the aircraft revolved by turning the direction, the dead head of the flight is still the direction pointed by the aircraft head when the aircraft is unlocked.



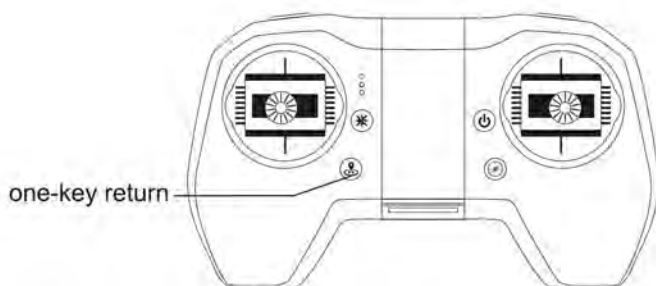
Course reversal

The aircraft has the course reversal function. If the reversal point has been successfully recorded before takeoff, the aircraft will automatically return to the reversal point and land when the remote control loses communication signals with the aircraft or the user presses the buttons, so as to prevent from having any accident. There are three different ways of course reversal, which are respectively: One-key return, uncontrolled return, low battery return.

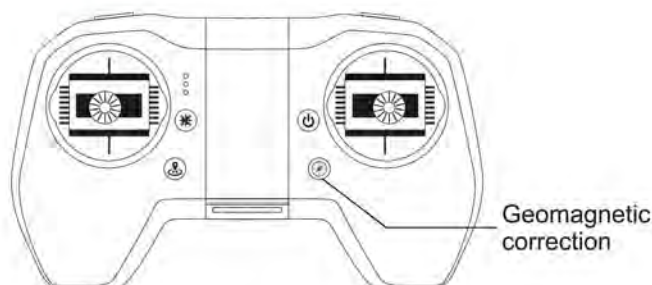
The course reversal point: the coordinate of the flying saucer in unlocking after receiving the satellite is the course reversal point.

One-key return

When the device has good GPS signal (the number of satellites is greater than 7, the number of satellites can be viewed through the APP software of the mobile phone), you can use the remote control button below to return the aircraft. The reversal process is consistent with the uncontrolled return. The difference is that when the aircraft returns and lands, the course reversal function can be retreated through pushing the accelerator in the landing process. The left and right revolving directions are shed, the locking bar of the direction can be used to control the landing place.



Geomagnetic correction



Uncontrolled return

When the device has good GPS signal (the number of satellites is greater than 7, the number of satellites can be viewed through the APP software of the mobile phone), the compass has normal operation, and the aircraft succeeds in recording the return point, if the signal of the remote controller disconnects for a continuous 6s, the flying control system will take over the control power of the aircraft to control the aircraft to fly back to the recorded reversal point. If the remote control signal recovers in the flying process, the reversal process will continue, but the user can cancel the reversal through the reversal key on the remote controller, thus retaking the control power of the aircraft.

Preparation for the flight

Inspection before the flight

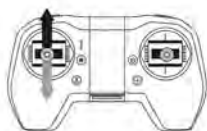
1. Check if the remote controller and aircraft have sufficient electricity quantity
2. Check if the fan blade is installed correctly
3. Check if the engine arm is fixed
4. Check if the engine can be launched automatically after turning on the equipment

Flight procedures

1. Match the codes of the remote controller and the aircraft
2. Conduct initialization detection to the aircraft
3. Compass correction of the aircraft
4. Gyroscope correction
5. Unlock the aircraft
6. Push upwards the rocking bar of the accelerator, the aircraft takes off, the left/right joy stick conducts posture control of the aircraft
7. Pull the rocking bar of the accelerator to the lowest position, the aircraft lands and the engine locks
8. Pull out the battery of the aircraft

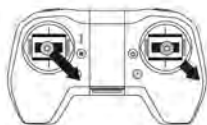
Match code of the aircraft

Step 1: turn on the aircraft and place the aircraft on the horizontal ground. Push the rocking bar of the accelerator to the highest and then the lowest. After succeeding in frequency match, the front blue and back red lights in the Altitude Mode are normally on; the front blue and back red lights in the Fixed Point Mode are normally on.



Gyroscope correction

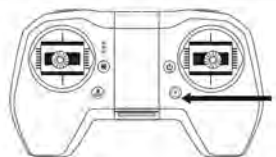


Step 2: the operation of correcting the gyroscope, place the aircraft on the ground in flatwise. The left/right rocking bar moves to the lower angle at the same time for about 2s. Then loose the rocking bar. The front blue and back red lights of the equipment indicating light will turn from fast flash into normally on. The gyroscope correction is completed.



- ⚠ In conducting gyroscope correction, be sure to place the aircraft on the level surface, otherwise the flight might be affected.
- ⚠ Please do not correct the gyroscope on the grassland, stone, sand or other rough places, otherwise the flight might be affected.

Compass correction

Step 3: Press the geomagnetic calibration button for one time. The front blue band back red indicating light of the aircraft flashes slowly. Take up the aircraft and revolve it in clockwise for 3 circles. The red and blue light flash. Then turn the aircraft to a position with head downwards and revolve vertically for three circles. The red and blue light for long time. The geomagnetic calibration is finished. Then install the aircraft on the ground.



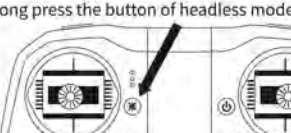
<p>The first step: Press the geomagnetic calibration button of the remote controller</p>	<p>The second step Take up the aircraft and revolve it in clockwise for 3 circles. The red light is normally on. The blue light flashes. (Hear a drop beep in The remote control)</p>	<p>The third step: Then turn the aircraft to a position with head downwards and revolve vertically for three circles. The blue light is normally on and the red light flashes. The geomagnetic calibration is finished. (Hear a drop beep in The remote control)</p>
		

- ⚠ After completing satellite searching, please wait for 1 minute and then check if there are over 9 satellites on the satellite signal interface of the APP, if the flight mode is in the fixed position mode. It can take off in the fixed position mode. If it is in the self-stabilization mode, it can not take off.
- ⚠ Warm prompt: please make sure that the flight environment is the open space and there are over 9 satellite signals before taking off.
- ⚠ Please do not calibrate in the area with strong magnetism, such as the magnetic ore, parking lot, construction area with underground steel bars and so on.
In calibrating, please do not carry any ferromagnetic material, such as keys, cell phones and so on.
Please do not calibrate near big metals.

Unlock/lock the aircraft

When the aircraft is searching for GPS satellite outdoors, the aircraft cannot take off. After the GPS search reaches more than 9 stars and the remote control hears a drip, the remote control rocker can be used to unlock the aircraft and take off.

Unlock/lock the aircraft

<p>Unlock: push the rocking bar of the accelerator to the toe-in shape to unlock the aircraft</p>	
<p>Lock: when the aircraft lands the ground, pull the rocking bar of the accelerator to the lowest position and maintain. After 3s, the engine stops, please push the rocking bar of the remote controller to the toe-out shape. The aircraft locks.</p>	
<p>Optical flow mode: when the aircraft needs to use the optical flow mode to take off indoors, long press the button of headless mode of the remote control. When the remote control is heard to drip, the optical flow mode can be unlocked before taking off.</p>	<p>Long press the button of headless mode</p> 

Solution of common faults

No.	Problem	Solution
1	In the process of code matching , the front-blue indicating light and back-red indicating light flash slowly.	The remote controller and aircraft fail in code matching. Please restart the equipment and operate according to the code matching instruction.
2	The aircraft can not be positioned.	1. The environmental GPS signal of the aircraft is weak. Please change to fly in an open space. 2. Before the aircraft taking off, no GPS signal is received. Please re-calibrate the compass.
3	The return point of the aircraft is rather remote to the taking off position.	The environmental GPS signal of the aircraft is weak. Please change to fly in an open space.
4	The aircraft is unable to be unlocked.	1. The aircraft is in low electricity. Please exchange the battery. 2. The remote controller and aircraft fail in code matching. Please restart the equipment and operate according to the code matching instruction.

Software Instruction

- software installation instructions
- operation interface

Introduction to the control interface
Control interface function description
Gesture recognition

- warm prompt
- MV interface

Introduction to MV interface

Software Installation Instructions

1. Install the Mobile Client

Please scan the qr code below and download the mobile App on the corresponding website.



iOS



Android (china)



Android (google)

2. Connect Aircraft WiFi

- (1) Turn on the aircraft power;
- (2) Looking for aircraft hot spots in mobile phone "setting-wireless LAN";
- (3) Click the network (no password) , and the phone will be connected automatically.

3. The recommended model configuration

(1) iOS

Configuration	Recommended	Optimal (Support 2 k)
Product model	iPhone 6 and above	iPhone 6 and above
System version	iOS 8.0 and above	iOS 9.0 and above

Software Installation Instructions

(2) Android

Configuration	Recommended	Optimal (Support 2k)
The CPU model	Snapdragon 630 and above Samsung Exynos 7420 and above Hair division Helio X25 and above Kirin 950 and above	Snapdragon 835 and above Samsung Exynos 8895 and above Hair division 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 usage	Occupancy rate of 25% and below	Occupancy rate of 10% and below

Clean up the background program, which can effectively reduce the CPU usage.

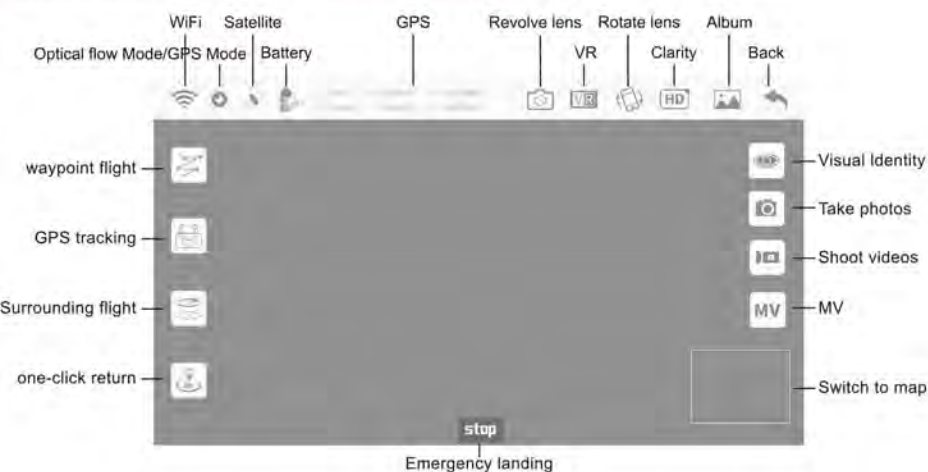
Warm Prompt

When the aircraft is in the following environment, the fixed-point hovering effect is not good.

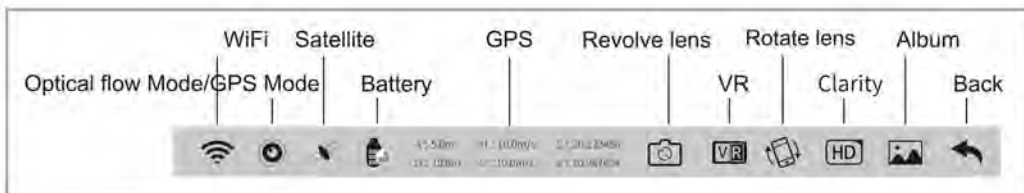
Note: When the aircraft is in the following environment, the optical flow of the lower lens is not good enough to hover, which will make it difficult for the aircraft to fly smoothly, and the body will be shaken.



Introduction to the Operation Interface



Function Description



WiFi: Display chart signal strength;

Satellite signals: Represents current flight mode and number of satellites, Scintillation means that the current mode is theoretical flow point, without the function of returning, following, circling and pointing. Constant light indicates current GPS mode.

Battery: The battery status of the aircraft.(1) 2-4 grid indicates the normal power, which can operate the returning, following, circling and pointing flight functions normally in the GPS mode.(2) 1 grid (flicker state) represents the current low power state, and the aircraft will perform the automatic course reversal function. There is no following, circling and pointing flight function in low power state.

GPS signal: Displays the height, distance and corresponding longitude and latitude of the current aircraft from the reentry point.

Revolve lens: Can switch between front lens and down lens.

VR model: Click into VR mode.

Rotate lens: Record the relevant parameters of each flight.

Clarity: Click to switch the video definition.

Album: Photos and videos can be viewed.

Function Description

waypoint flight



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

GPS tracking



GPS tracking : In GPS mode, click this button and the aircraft will follow the flight.

Surrounding flight



Surrounding flight : In GPS mode the aircraft nose will fly around clockwise or counterclockwise with the current position of the aircraft as the center. During the surround process, you can control the rise, fall, forward, and reverse to adjust.

One-click return



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

Function Description



Visual Identity

Visual Identity : After clicking, the visual recognition function is turned on.

The visual recognition function includes Take Photos by Yeah Gestures, Shoot Videos by Box Gestures, Shoot Videos by Palm Gestures. (For related content, see 【*Other Instructions】)



Take photos

Take photos : Click the button to take photos.



Shoot videos

Camera : Click the button to shoot videos.



MV

MV : Click the button to switch to MV mode.

Gesture Recognition

Facing the front lens of the camera, the following gestures can be triggered to trigger the automatic camera or camera function of the aircraft:

Take Photos by Yeah Gestures About 2m in front of the camera of the aircraft, hold the Yeah gesture with one hand flat. After the aircraft successfully recognized the gesture, the countdown of 3 seconds began to take photos;

Shoot Videos by Box Gestures About 2 meters in front of the camera of the aircraft, put your hands on the position of the face jaw to make a square video gesture. After the aircraft has successfully recognized the gesture, the video will start. When the gesture is recognized again, end the recording (the time difference between two recognition should be more than 3 seconds);

Shoot Videos by Palm Gestures About 2 meters in front of the aircraft lens, with five fingers and one hand flat; After the aircraft has successfully recognized the gesture, the video will start. When the gesture is recognized again, end the recording (the time difference between two recognition should be more than 3 seconds);

* Special Instructions

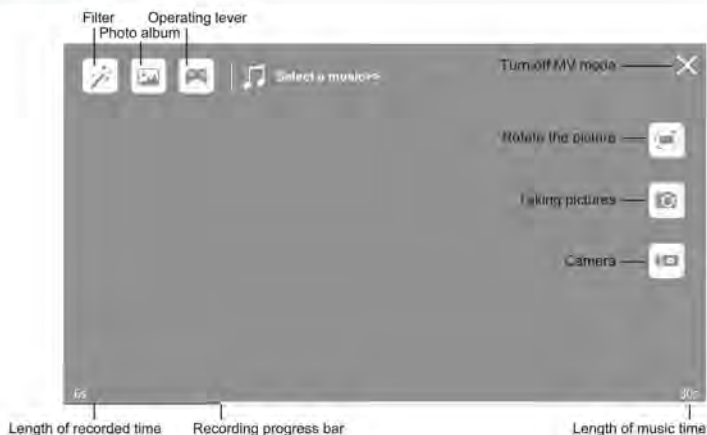
To ensure that the lens gets a higher recognition rate :

1. Please aim the lens face to face;
2. Please fly in a good light environment;
3. Please conduct gesture recognition operation at a distance of about 2m from the lens.

In the following cases, it will result in a low lens recognition rate :


1. Weak light or backlight;
2. The WiFi signal is weak or the signal is disturbed.

MV Interface



Rotating picture

Click this button to enable the Rotate Screen feature. At this point, the fingerswipes on the screen to rotate the image; if the finger double-clicks anywhere on the screen, the image can be magnified in an instant (this feature also applies when recording video).

 Attention in return:

- Aircraft can't avoid obstacles in the automatic returning process.
- The aircraft cannot return when the GPS signal is poor or the GPS is not working.
- If the aircraft fails in receiving the satellite and the remote control signal continues to be interrupted for more than 6 seconds, the aircraft will not be able to return, instead it will slowly descend, land and lock.

Safety outlines

1. Environment .

- Fly in open space away from the crowd.
- Fly in areas below 5,000 meters above sea level.
- Fly in a good weather at 0-40°C.
- Fly in the legal areas.

2. Inspection

- Make sure each device has sufficient electricity.
- Make sure that the propeller is not damaged and is firmly installed.
- Make sure that the aircraft engine is clean and free of any damage.
- Make sure the camera lens is clean and perfect.
- Perform pre-flight checks and calibrate the compass according to the prompts on APP.

3. Operation

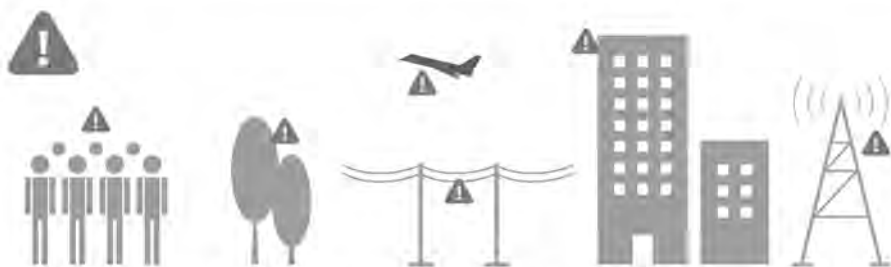
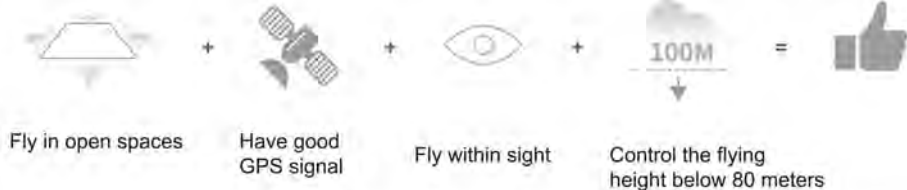
- Never approach the rotating propeller and engine.
- Make sure to fly the aircraft within sight.
- Do not make and receive calls during flight. Do not operate the aircraft after taking alcohol or drugs.
- Please return as soon as possible on low battery warning.
- After landing, please turn off the aircraft and then the remote controller.
- In using guidance flying and intelligent follow-up functions, please be ready to control the aircraft manually or press the "STOP" button on the screen or the remote controller in emergencies.

4. Maintenance

- Replace the deformed and damaged propeller.
- The aircraft and intelligent flying batteries are suitable for long-term storage in environments between 22 °C and 28 °C.

5. Flight restriction and local regulations

- Do not fly in restricted flight areas.
- The flight altitude must be controlled below 120 meters. When flying, it must strictly abide by local laws and regulations.



In flying, please keep away from people, trees, wires, tall buildings, airports and signal towers. Radio transmission towers, high-voltage lines, substations and large pieces of metal with magnetic properties may interfere with remote control signals and compasses, threatening flight safety.



Please do not fly the aircraft in rainy, foggy, snowy, thundery and windy (wind speed $\geq 10\text{m/s}$) weather conditions.

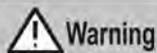


Do not touch the propeller in working rotation, otherwise it may cause serious personal and property damage.

Term list:

This product uses the following terms to explain the potential hazard grading that may result from improper operation.

- Attention** Attention: Failure to follow the instructions may result in property damage and minor injury.
- Caution** Caution: Failure to follow the instructions may result in property damage and serious injury.
- Warning** Warning: Failure to follow the instructions may result in property damage, major accidents, and serious injuries.



Please read the entire instruction manual and get familiar to the product's features

before proceeding. Failure to properly handle this product may cause serious injury to yourself or others, or may result in product damage and property damage. This product is relatively complex and takes a certain amount of time before operating it safely. In addition, it requires some basic knowledge to operate. Without a strong sense of safety, improper operation may result in product damage and property damage, and may even cause serious harm to themselves or others. The product is not suitable to be used by children. Do not use parts that are not supplied or recommended by Visuo. You must strictly observe the guidelines of Visuo to install and use the product. This guidance document contains safety, operation and maintenance instructions. Be sure to read all instructions and warnings in the instruction manual carefully before proceeding with assembly, setup, and operation.

Inspection list before the flight

1. Use only genuine Visuo parts and ensure that all parts work well.
2. Make sure that the remote controller, intelligent flying battery, and mobile device battery have sufficient electricity.
3. Make sure that no foreign matter adheres to the camera lens and the memory card is inserted into the camera. Make sure the gimbal can move flexibly.
4. Make sure all propellers are properly mounted to the engine. The engine can be started normally.
5. Calibrate the compass according to the prompts.
6. Make sure APP has been updated the latest version.
7. Make sure that the flight site is out of the flight-restricted area and that the flight site is suitable for flying.
8. The user must ensure not to operate and control the aircraft after drinking or taking drugs.
9. Be familiar with each flight mode. Be familiar with the behavior of aircraft in uncontrolled return mode.
10. The user should understand the local laws and regulations concerning the aircraft. If necessary, the user must apply for permission to use the aircraft from the relevant department.

Disclaimer and warning

This product is not a toy and is not suitable for people under 14 years old. Do not allow children to touch this product. Please pay special attention in operating the aircraft in places with children.

Before using this product, please read this document carefully. This disclaimer has an important impact on the safe use of this product and your legal rights.

This product is a multi-rotor aircraft that will provide a free and relaxed flying experience when the power supply is working normally and the components are not damaged. Reserve the right to update this disclaimer.

Be sure to read this document carefully before using the product, so as to understand your legal rights, responsibilities and safety instructions; otherwise, it may result in property damage, safety accidents and personal safety hazards. Once you use this product, you are deemed to have understood, approved and accepted all the terms and contents of this disclaimer. The user promises to be responsible for his own behavior and all the consequences arising therefrom. The user undertakes to use this product only for legitimate purposes and agrees to this item as well as any other related policies or guidelines might be formulated by Visuo.

Visuo shall not be liable for any direct or indirect personal injury and property damage caused by the non-observance of this safety instructions. Users should understand and implement, but are not limited to, the guidelines for safe operation.

Instructions of using the components

Original spare parts



To avoid possible injuries and losses, please be sure to observe the following items:

1. Use original accessories, use of non-original parts may cause danger to the safe operation of the aircraft.
2. There are no foreign objects (such as water, oil, sand, soil, etc.) in the aircraft and various parts.
3. Ensure that the aircraft and its components, including but not limited to the remote controller, camera, gimbal, compass, power system, and battery are working properly.

Remote controller



1. Before each flight, make sure the remote controller is fully charged
2. In using the clamp on the remote controller, be sure to press firmly to prevent the mobile device from falling off.
3. Any damage to the antenna of the remote controller will affect the performance of the controller. Please repair it in time.
4. Recharge every 3 months to maintain battery activity.

Camera



To avoid possible injuries and losses, please be sure to observe the following items:

1. Make sure the camera is unobstructed, otherwise the high temperature may cause camera damage and even burn you or others.

Attention

1. Check the camera parameter settings before using the camera to make sure the parameters are correct.
2. When the device is used to film important images, please take tests for several times to ensure that the device is in normal working condition.
3. Please turn off the power supply before inserting and pulling the SD card.

Gimbal

Attention

1. The gimbal contains precision parts. If it is impacted or damaged, the precision parts will be damaged and the performance of the gimbal may be reduced. Please protect the gimbal from any physical damage.
2. Never exert any force to the gimbal when it is working.
3. Never add any other object on the gimbal of the camera, otherwise the performance of the gimbal might be affected.

Compass

Caution

To avoid possible injuries and losses, please be sure to observe the following items:

1. During flight, if there is a serious drift (such as the aircraft can not fly in the straight line), please land it immediately.

Please calibrate the compass according to the instructions of the App or the status indicator of the aircraft. The following is the calibration notes:

1. Do not calibrate in areas with strong magnetic fields or near bulk metals, such as magnetite, parking lots, building areas with underground reinforcement, etc.
2. Do not carry ferromagnetic material with you during calibration, such as mobile phones.
3. After successful calibration of the compass, please place the aircraft on flat ground before takeoff.

Dynamic system



High-speed rotating propellers and engines might cause injury or damage. Be sure to observe the following items:

Propeller

1. Please make sure to check that if each propeller is intact before flight. If it is deteriorated, damaged or deformed, replace it before flying.
2. In performing any operation on the propeller, please make sure that the aircraft is power off.
3. As the blades are thin, please be careful in installing, so as to prevent accidental scratches.
4. Use auxiliary tools to install and remove the propeller when necessary.
5. Before each flight, please check if the propeller is properly installed and fixed.
6. Please do not approach the rotating propellers and engines to avoid being cut.

Engine

1. Make sure the motor is firmly installed and can rotate freely.
2. Do not modify the physical structure of the engine on your own.
3. Do not touch the motor directly with your hands immediately after the motor stops rotating, otherwise it may cause burns.

Caution

To avoid possible injuries and losses, please be sure to observe the following items:

1. Please do not cover the ventilation hole of the motor.
2. Please do not cover the ventilation hole on the aircraft shell.

Attention

Engine

1. Make sure there is no foreign object in the engine.
2. If the motor does not revolve freely, please perform the rod break action immediately to stop the engine rotation.

App

Attentions:

1. Before using the App, please make sure that the mobile device has enough power.
2. When you are using the App on your mobile phone, please pay your attention on controlling the aircraft and do not answer the call during the flight.
3. In using the App, please read all popped security prompts, cautions, and disclaimers carefully. Make sure that you can understand all the local laws and regulations. You will be responsible for all flight behaviors going against local laws and regulations.
4. When the App prompts the user to land the aircraft, it is important to land the aircraft in a safe place in time.
5. Before carrying out each flight, please make sure to check the device according to the pre-flight inspection list provided by the App.

Product maintenance

Storage and transportation

Warning

To avoid possible injury and damage, it is important to observe as follows:

1. Because wires and small parts may cause danger to children, children must be kept away from the components of the aircraft.

Attentions:

1. Please store the intelligent flying battery in a dry and ventilated place to reduce direct sunlight and prevent the battery from being overheated. If the battery has to be stored for more than three months, it is recommended to store the battery in the temperature of 22°C to 28°C. It is not suggested to store the battery in locations with the temperature of below -20 °C or above 45 °C.
2. Do not expose the camera to liquids or immerse it in water. If the camera has water entered, please wipe it with a soft and dry cloth.

It is forbidden to turn on the power immediately after the aircraft falls into water, as this will cause permanent damage to the aircraft. Do not use liquids that contain volatile components such as alcohol to clean the camera lens. Do not store the camera in a humid place.

Requirements on flying conditions

Weather and environment requirements



Warning

Please fly the aircraft in good weather and environment conditions. To avoid possible injuries and losses, please make sure to observe the following items:

1. Please do not fly the aircraft in bad weather conditions, such as strong winds (wind speed of 5 or above), snowy, rainy, foggy weather conditions and so on.
2. In flying, please control the aircraft in the range of visibility, thus ensuring the aircraft to have an at least 10-meter distance with the barriers, crowds, water surfaces and so on.
3. It is required to pay special attention when the aircraft is operated indoors.

Attentions:

1. The performance of the intelligent flight battery is affected by air density and ambient temperature.

When the aircraft flies over 5,000 meters above the sea level, the performance of the intelligent flight battery and the power system will be degraded due to environmental factors, thus affecting the flight performance. Please be careful in flying.

2. In the event of a collision, overturning, fire disaster, explosion, lightning strike, storm wind, tornado, rainstorm, flood, earthquake, sandstorm, etc., it is not allowed to use the aircraft.

Attentions:

1. Please make sure to operate the aircraft in the open space, because tall reinforced buildings may interfere with the operation of the compass and GPS signals on the aircraft.
2. To prevent the remote controller from interfering with other wireless devices, be sure to use the remote controller of the aircraft after turning off other wireless devices.
3. It is forbidden to fly the aircraft near electromagnetic interference sources. The electromagnetic interference sources include, but are not limited to: high-voltage power lines, high-voltage power stations, mobile telephone base stations, and television broadcast signal towers. If the operator doesn't select the appropriate flying site according to the above provisions, the wireless transmission performance of the aircraft may be interfered and affected. If the interference source is too great, the aircraft will not be able to fly normally.

Safe flight



To avoid possible injuries and losses, please make sure to observe the following items:

1. The user is not allowed to manipulate this product after drinking, taking drugs, having medical anesthesia, feeling dizzy, tired, sick or having other poor physical or mental conditions.
2. Be sure to turn off the aircraft and then the remote controller after landing.
3. It is forbidden to use this product to throw or launch any dangerous objects into buildings, crowds or animals.

Attentions:

1. The user should ensure to have a sufficient level of understanding to the aircraft and make clear all emergency return measures.
2. Before each flight, the user should have prepared the flight plan. Do not manipulate this product rudely.
3. Be sure to respect the privacy of others in using the camera of the device. Make sure that the user has already had a clear understanding of local privacy laws and regulations before using the camera of the aircraft.
4. It is forbidden to use this product for any illegal and improper conduct (including but not limited to espionage, military operations, and illegal investigations).
5. It is forbidden to use this product to conduct any activities going against others' privacy rights.
6. It is forbidden to use this product to infringe others' property rights.

Flight mode



To avoid possible injuries and losses, please make sure to observe the following items: Be sure to get familiar to the characteristics and various flight modes of the aircraft. Using no GPS might bring safety risks to the aircraft in landing.

Uncontrolled return function



1. The uncontrolled return function will become invalid when GPS has poor signal.
2. Please press the intelligent return button to start the intelligent return function. After launching the intelligent return function, the aircraft will return to the recently recorded return point. Please do not start the return function in force by turning off the power of the remote controller.
3. If there are tall buildings on the return route, it will affect the return safety of the aircraft, so it is necessary to set a reasonable return altitude in advance before using the uncontrolled return function.
4. Make sure that the aircraft is manipulated within the communication range of the remote controller.
5. Make sure to use the intelligent return function only in emergencies because the return function will be affected by weather, environment, and geomagnetism.

Low electricity



1. After the aircraft sends out the extremely low electricity alarm, the aircraft will descend on its own. At this point, the user can still push the rocking bar of the accelerator to raise the flying height and control the direction of the aircraft, so that it can fly to a suitable place before landing.
2. After the aircraft sends out the low electricity alarm, be sure to return and land the aircraft, thus avoiding causing danger to the aircraft, human beings and animals after losing power.

Instructing the flight

Attentions:

To avoid possible injuries and losses, please make sure to observe the following items:

1. Please do not instruct the aircraft to fly to people, animals, small objects (such as tree branches or wires, etc.), or transparent objects (such as glass or water).
2. Always keep an eye to objects coming around the aircraft(especially back, left and right) and avoid accidents by manual operation(such as: collision).
3. Always be prepared to manually control the aircraft or click "STOP" on the screen or press the intelligent flying pause button in an emergency .

Attention

1. The instructed flying direction selected by the user might have some deviations with the actual flying direction of the aircraft.
2. The range of instructed flight to be selected by the user on the screen is limited. When clicking in the operation interface closing to the upper boundary or lower boundary, the instructed flight may not be realized.
3. The instructed flight mode may not operate normally on water surface or in the area with snow coverage.
4. Please use this mode with cautions when the light condition is especially dark (have illumination lower than 300 lux) or especially bright(have the illumination higher than 10000 lux).

Intelligent follow-up

Cautions

1. Please always avoid others, animals, small objects (such as tree branches or wires, etc.), or transparent objects (such as glass or water) on the follow-up routes of the aircraft.
2. Always keep an eye to objects coming around the aircraft(especially back, left and right) and avoid accidents by manual operation(such as: collision).
3. Always be prepared to manually control the aircraft or click "STOP" on the screen or press the intelligent flying pause button in an emergency.
4. When the aircraft conducts intelligent follow-up in a retrograde manner, please make sure that there is no obstacle around the aircraft.

Attention

1. It is required to use the intelligent follow-up mode in the following scenes:
 - a. When the followed object doesn't move on the horizontal ground;
 - b. When the followed object has dramatic shape transformation in moving;
 - c. When the followed object is covered or out of vision for a long period;
 - d. When the followed object is in the area with snow coverage;
 - e. When the light condition is especially dark(have illumination lower than 300 lux) or especially bright(have the illumination higher than 10000 lux).
 - f. When the followed object has very similar color or pattern with the ambient environment.
2. When the user is using the intelligent follow-up mode, be sure to obey the local laws and regulations on privacy.

Legal norms and flight limitations

Legal norms



To avoid illegal behaviors, possible injuries and losses, please make sure to observe the following items:

1. Do not fly near a manned plane. Land immediately if necessary.
2. It is forbidden to use the aircraft in areas with dense population. These areas include: cities, sports venues, exhibitions and concerts.
3. Please make sure that the aircraft will not affect the large manned craft on the route. Keep vigilant and elude other aircraft constantly.

Cautions

To avoid illegal behaviors, possible injuries and losses, please make sure to observe the following items:

1. It is forbidden to control the aircraft to enter the no-fly zone prescribed by law. The no-fly zones include airports, border lines and major cities.
2. It is prohibited to fly in a space beyond a limited height.
3. Please make sure that the aircraft is flying in the range of your visibility. If necessary, you can arrange observers to help you monitor the position of the aircraft.
4. It is forbidden to use the aircraft to carry any illegal dangerous goods.

1. Please make sure that you have already had a clear understanding of the categories of flight activities (e.g. entertainment, business or business). Before the flight, it is necessary to obtain the license issued by relevant departments. If necessary, a detailed definition of flight activity category can be consulted to local legal workers. Please note that it is prohibited to use the aircraft for any form of commercial activity in some areas and countries.
2. It is forbidden to use aircraft near sensitive buildings, such as power stations, hydropower stations, prisons, traffic arteries, government buildings and military installations.
3. It is required to respect the privacy of others when shooting with aircraft. The use of this product is prohibited from any unauthorized surveillance activities including, but not limited to, surveillance of others, groups, activities, performances, exhibitions, or buildings.
4. Please note that in some areas and countries, although not for commercial purposes, the use of cameras to videotape or take pictures of others, groups, activities, performances, exhibitions, etc. will also offend copyright disputes or the legitimate rights and interests of others. In some regions and countries, small aerial models are also prohibited from participating in any commercial activities. Therefore, please carefully understand and follow the local laws and regulations before using.

Flight restrictions

Flight-restricted areas

1. Flight-restricted areas include, but are not limited to, international airports, border lines between two countries, and major cities and regions.
2. Some flight-restricted areas consist of multiple sub-areas. Each subarea has its own area radius.

The aircraft will not be able to take off when it is within the no-fly zone closest to the airport. When the aircraft is flying in the restricted altitude area out of the no-fly zone, the flying height will be limited. The flying height will decrease linearly from 500m to 10m according to the distance to the "no-fly zone". In addition, users will not be able to use the ground station function within the flight-restricted area.

3. The users are unable to set waypoints in the flight-restricted areas.