

AGES 14+

# **GPS GYROSCOPE 2.4G EXPLORERS**

**4CH 2.4G REMOTE CONTROL QUADCOPTER**



## **3 INSTRUCTION MANUAL**

### **Main characteristics**

- Ultra remote control distance 300M, allowing you to experience the fun of flying.
- A key to take off, a key landing: press a key to take off after direct flight.
- No electricity automatic return: near the aircraft to fly back to the battery automatically when the take-off point. (no matter how the vehicle is operating, it will fly back to the take off point)
- Fixed height: can be fixed to the altitude of the aircraft you need.
- GPS: global positioning system, allowing your aircraft to hover in the air will not move, easier to control.
- One key back: return via GPS, allows you to fly back to the location of aircraft take-off aircraft. (GPS signal strength points will be biased)
- Four-axis structure is applied, which makes the quadcopter more flexible and rapid when flying. It has the characteristics of wind-resistant and can be flown indoor or outdoor.
- Built-in 6 axis gyroscope for precise hovering in the sky.
- Modular design structure is applied, more simple for assembly and convenient for maintenance.
- Newly-increased headless function can recall the aircraft easily.

The materials and specification mentioned in this instruction manual or the parts inside this package is for reference only. Our company won't be responsible for any adaption of the outer package. Nor shall we keep our customers informed in advance. Any information updates or changes

## Safety regulations

1. Please put smaller parts of the quadcopter in the place where children can't reach, avoiding from accidents.
2. Power of this quadcopter is adequate. Therefore, when flying for the first time, it should push remote control's right/left variable-speed joystick slowly, avoiding from collisions caused by rising quadcopter rapidly.
3. After flying, please turn off the power of quadcopter and controller, also take out the batteries from controller.
4. Please don't put battery in high-temperature and heated places(such as fire or nearby electric heating devices).
5. When the quadcopter flies, it should maintain 2-3 meters from the user or others, avoiding from crashing into others' head, face or body when it lands.
6. When children operate the quadcopter, they should be accompanied with the adult and guided by the adult. Ensure that the quadcopter is controlled within the range of operator's (or instructor's) visibility. It is convenient for controlling.
7. Non-rechargeable battery can't charge. As installing or changing battery, please pay attention to the polarity. Don't use a mixture of old and new battery or battery with different types.
8. When it isn't used, it should turn off power supply of remote controller and quadcopter, respectively, and take out the battery in remote controller.
9. Power supply terminal can't be short circuit.

## Maintenance

1. Use clean soft cloth to clean this product frequently.
2. Avoid from exposure or heating in the sun.
3. Don't put the toy in the water. Otherwise, it'll damage electronic parts.
4. Please check the plug and other accessories at regular intervals. If there is any damage, please stop using it immediately until it is repaired completely.

## Contents

Product included following contents:

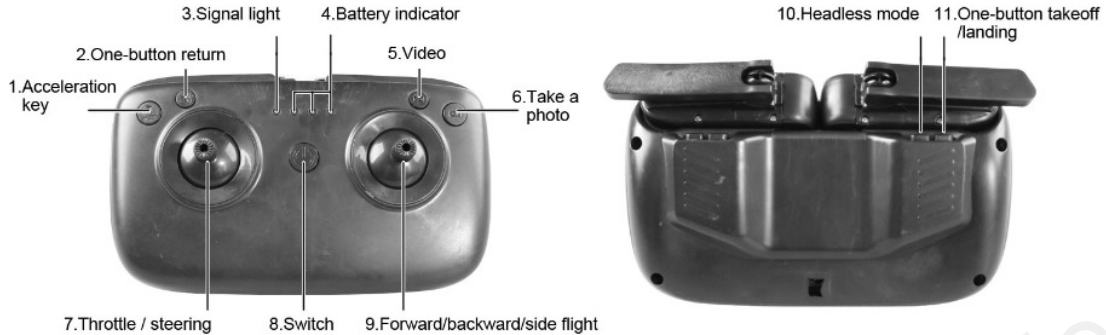
- Aircraft
- Remote control
- Camera
- Instructions
- USB charger
- Battery
- 2 leaves
- Screw



## Get to know your transmitter

### Introduction of transmitter:

For example, the camera version is connected to the wifi by mobile phone, the camera and video functions are on the mobile phone, 5 video, 6 camera buttons have no function.



1. Speed conversion when the aircraft is flying, 1 level 1 sound / 2 level 2 sounds.
2. When the button is pressed, the remote control will repeat the long beep, and the aircraft will return to the takeoff point at a height of at least 10 meters. If the number of search satellites is small when taking off, there will be a slight deviation. As the number of search satellites increases with the long flight time, the second takeoff will be more accurate.
3. The signal light will flash when the frequency is successful, and the light will be always on after the frequency is completed.
4. Battery indicator, when the battery is full, 3 lights are on, and when 50% is left, 2 lights are on. When the battery is about to run out, 1 light is on.
5. After pressing this button, the camera of the aircraft starts recording, and it is saved by pressing the recording once. (Note: If you do not turn off the recording after recording, the power will be lost and the video will be lost.)
6. Press this button and the camera of the aircraft will take a photo. If you press this button during the recording process, it will not respond.
7. Throttle + steering, throttle lever.
9. Front and rear + left and right side fly, universal joystick.
10. After pressing this button, the remote control always has the sound of "dropping". The aircraft will control the flight in the direction of the front and back of the takeoff regardless of the direction of flight. Cancel the button.
11. After pressing this button, the aircraft will slowly land from the air to the ground. After unlocking, press the button and the aircraft will fly to a height of about 1 meter.

**Note: This aircraft needs to fly at a distance of more than 15 meters from the building. Otherwise, the GPS signal will be unstable and the return location will be inaccurate.**



### Remote control charging:

When charging, the USB indicator lights up. After the charging is completed, the USB indicator is off and the charging time is about 40 minutes.

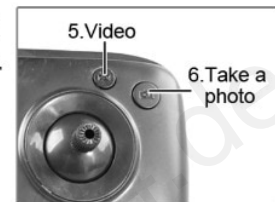
**Universal USB charging cable for aircraft and remote control.**

## Camera aerial photography function:

1. Methods: ① Make sure the power line of camera is inserted to the quadcopter.  
② Turn the quadcopter power on, the camera works normally when the RED indicator change form flashing to green and keep light on. If the RED indicator just light on and light off seconds later, it means the SD card is not in the camera. Please insert the MEMORY card, than the indicator light on GREEN. (Please insert the card at shutdown)

### 2. Get to know take photo and video:

- ① Turn on the transmitter and pull left lever up and down to connect signal between quadcopter and transmitter.
- ② Take Photo : Make sure camera normally work, when push the button "C" up, camera will take a photo after a beep from transmitter and the GREEN indicator on camera will be RED and flash on time.



Take Video : Make sure camera normally work , when pull the button "C" down ,camera starts to take video after a beep from transmitter and the GREEN indicator on camera will change to RED than keep flashing.

Press the button "C" slightly again , another beep from transmitter means video stopped and the RED flashing light on camera will be GREEN and keep light on.

**FPV Aerial shooting function:** (If the product does not have MEMORY card, please ignore this function)

1. Methods: ① Plug the connector of him and F PV camera into the socket of the aircraft.  
② When the FPV camera is turned on, the FPV camera will work normally if the blue and red LEDs are blinking. Indicates that no MEMORY card is inserted in the camera. (Please insert the card when the machine is turned off.)  
③ Open the video, you can see the video on the FPV camera real-time transmission scenarios. (The screen distance is about 100M-150M, please fixed the display on the remote control).

### 2. Get to know take photo and video:

When the FPV camera is connected to the display successfully, you can choose to take pictures or videos to capture the beauty you see.

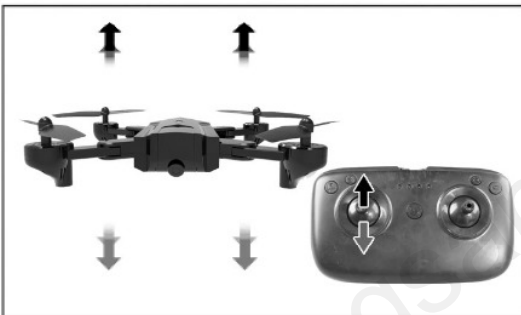
- ① Take photo: Press the camera button remote control, remote control beep, FPV camera red lights flash once to indicate the completion of photographs (Press the key did not respond when recording)
- ② Take video: Press the remote control video key, the remote control beeps, the PFV camera's red light continuously blinks, indicating that the video is being recorded, press it again, the red light green long to indicate the end of recording.

3. WIFI function description: ① scan the specification of the two-dimensional code, download and install APP.  
 ② Enter the settings, open the WIFI option, find the WIFI hotspot name in the WIFI and connect, connect to the desktop after the success of the installation, open the installation of the APP, enter the program.  
 ③ Please refer to the operating instructions inside APP.

## Aircraft Operation Guidance

### Operating direction

#### Hover up and down



Push the throttle up or down, the quadcopter flies upward or downward.

#### Forward and backward



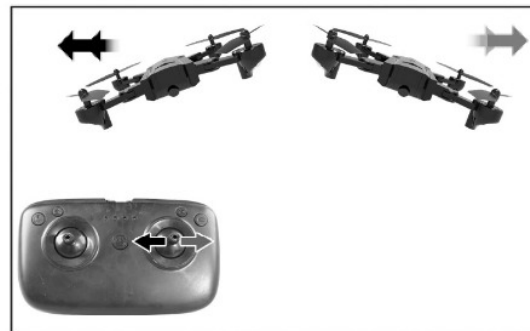
Push the direction lever up or down, the quadcopter flies forward or backward.

#### Turn Left and Right



quadcopter turns to left or right.

#### Sideward fly



quadcopter flies to left side or right side.

## Battery charging steps:

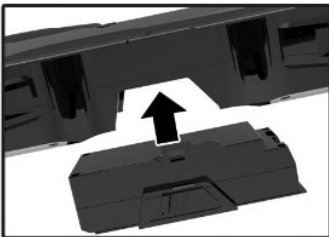
Remove the USB charging cable, connect the battery socket to the charging head, and plug the USB terminal into the USB port on the computer (or USB power adapter) to charge the battery. When charging, the USB head red indicator light is on, and when it is full, the red indicator light is off. The charging time is about 60 minutes.

### Universal USB charging cable for aircraft and remote control.

**Battery safety instructions:**  
Use only the charger supplied with this product for charging.  
The power terminals must not be shorted.  
Do not leave when charging.  
The exhausted battery needs to be removed from the aircraft.  
Dispose of used batteries as required by the environmental protection department.  
Do not throw the battery into a fire to avoid danger.



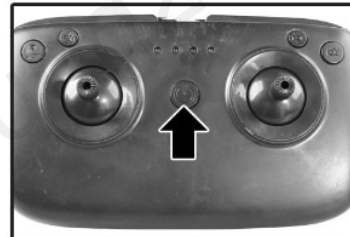
## Ready to fly your quadcopter



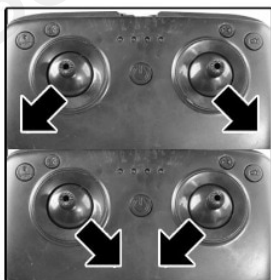
1. Insert the battery as indicated by the arrow.



2. When the battery is installed, it will make a "click" sound.



3. Open the remote control power switch, after the code on the drop soon. (10 seconds after the aircraft is open to the remote control on the code, or will not on the code)



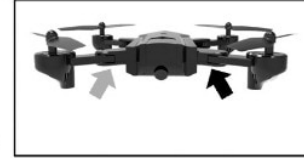
4. When the indicator on the aircraft has flash into a slow flash, let the aircraft search for GPS signals. Search for a good GPS signal when the aircraft lights are lit, then the throttle with the direction of the control lever down at the same time eight or eight side down to unlock the inside, the motor can start flying.

**Note:** GPS search time is about 50 seconds, the search time because of the signal environment, such as GPS flight can not be directly after the aircraft to take off.

## Function introduction

### 1. Low-voltage protection:

If four indicator lights in the bottom of aircraft start to twinkle, it means that the aircraft is short of electricity. The aircraft automatically fly back near the take-off point. (At this point, no matter how you manipulate the aircraft to the long-range flight, it always automatically fly back), At that time, a return voyage shall immediately be made to the aircraft



### 2. Over-current protection:

In the condition of rotating aircraft's fan blade, when being crashed or stuck, aircraft's circuit will conduct over-current protection. (When the fuselage tilted to 90 ° the aircraft will emergency stop. Need to restart the power before)



### 3. Gyro correction function:

The aircraft first boot on the frequency, the last, while playing the throttle to the upper left corner of the potentiometer rocker to play, universal potentiometer rocker to the lower right corner to play, after 5 seconds on the plane flashing lights and then release the rocker light to slow flash, Indicating that the gyro calibration is complete. At this point you can search for a good GPS signal can be controlled after the aircraft unlock take-off. Such as GPS signals can be directly unlocked without taking off.

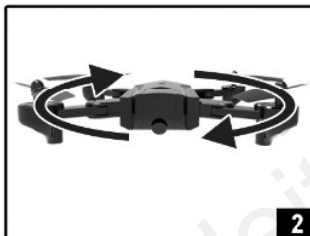
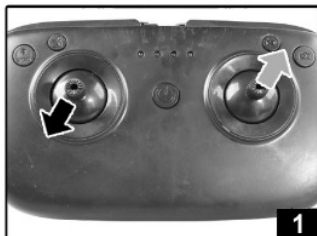


**Note:** Gyro calibration is the aircraft after a fall off the aircraft or take off after the transport bumps, electronic components deviation of the first flight only when this step, usually do not.

#### 4. Geomagnetism correction:

The aircraft first boot frequency, on the back, at the same time hit the throttle potentiometer rocker to the lower left corner, universal potentiometer rocker hit the upper right corner (Figure 1), 5-9 seconds after the aircraft lights flash, aircraft After flashing, the airplane turns clockwise 3 times (as shown in Fig. 2), and then turns the vertical battery cover up clockwise by 3 turns (as shown in Fig. 3). The light turns to normal flashing, indicating that the compass calibration is completed. At this point you can search GPS signals, and then you can control the aircraft to unlock takeoff. Search completed GPS light is always on, such as without GPS signal can be directly unlocked off.

**NOTE:** Geomagnetism correction is the geographical deviation of the aircraft after receiving a receiver plate or a transport protrusion after takeoff, caused by the flight angle of latitude and longitude, when the first flight only needs this step, usually do not.



#### Indicator status description:

Indicator status:	Solution:
1. The aircraft lights flash slowly and slowly.	1. The geomagnetic disorder is recalibrated according to the gyroscope->geomagnetic correction method.
2. The aircraft lights flash rapidly.	2. The aircraft enters the search star state and is placed in an open and unobstructed place.
3. The aircraft lights flash slowly.	3. The aircraft is out of power, please charge it.

#### Maintenance procedure

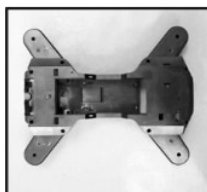

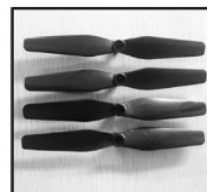



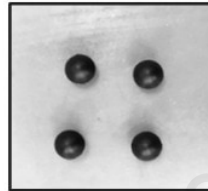
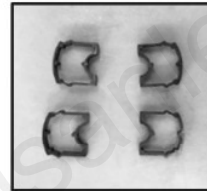
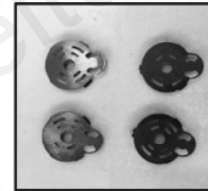
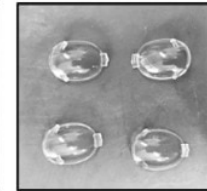

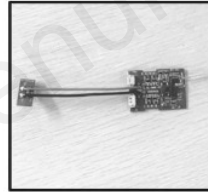
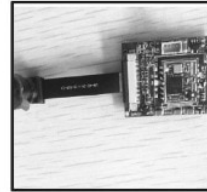
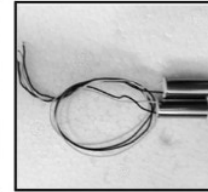
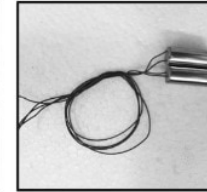
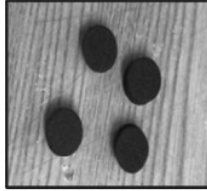

Problems	Causes	Solutions
Aircraft has no response	<ol style="list-style-type: none"> <li>1. Aircraft enters into low-voltage protection.</li> <li>2. Electric quantity of remote control is insufficient, power indicator light will flicker.</li> <li>3. Channel selection of remote control is inconsistent with aircraft's match codes.</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the aircraft.</li> <li>2. Change remote control's battery.</li> <li>3. Adjust channels of remote control and aircraft, and make them become consistent.</li> </ol>



Aircraft's flying response is insensitive	<ol style="list-style-type: none"> <li>1.The remote-control unit suffers low battery or the quality of battery is not good enough.</li> <li>2. Remote control with the same frequency is transmitting interference.</li> </ol>	<ol style="list-style-type: none"> <li>1.Change battery with better quality.</li> <li>2. Change the place where has no transmitting interference of the same frequency.</li> </ol>
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## Spare parts

Here are alternative accessories. In order to provide convenience for customer purchasing, every component are marked. Accessories can be purchased from local dealer. Please specify the color when purchasing.

				
lower lid	Upper cover	A-B fan blade	Charging Cable	Motor arm lower case
				
Motor arm upper case	Wind cap	Guard plug	Motor cap	lampshade
				
battery	Receiving board	WIFI board	Reverse motor	Forward motor
				
sponge	remote control			



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