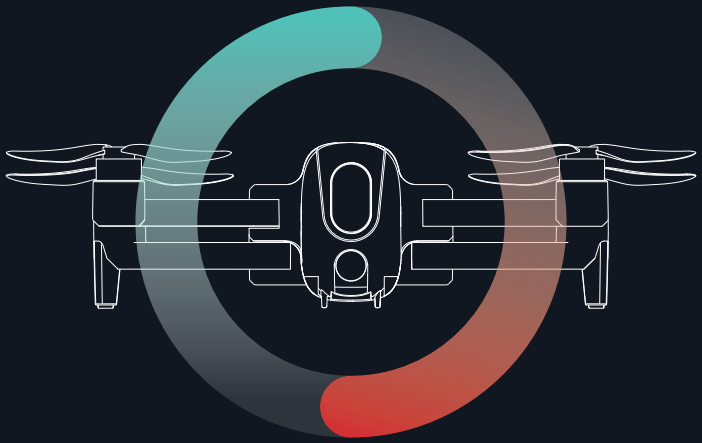
COOAU



FX-9P

GPS FOLDING DRONE

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WARNING

Before using the drone, please read the following information carefully:

- This product is suitable for users over 14 years old.
- Please abide by local regulations and file the qualifications for drone flight.
- Please stay away from the rotating propeller.
- Please read the operating instruction carefully if you use this type of product for the first time.

DANGER!
Only suitable for age 14+

If you have any problems or suggestions , please feel free to contact us by Amazon message or send e-mails to our offcial mailbox(support-us@cooau.com).The best customer service will be offered to you.

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PACKAGE LIST

1* The drone of body

1* Transmitter

2* set Blade a
2* set Blade b

1* USB charging cable

2* Drone Batteries

1* Screw driver

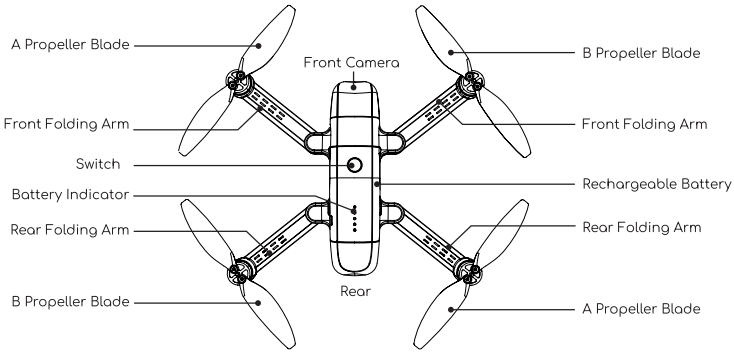
8* Blade Screws

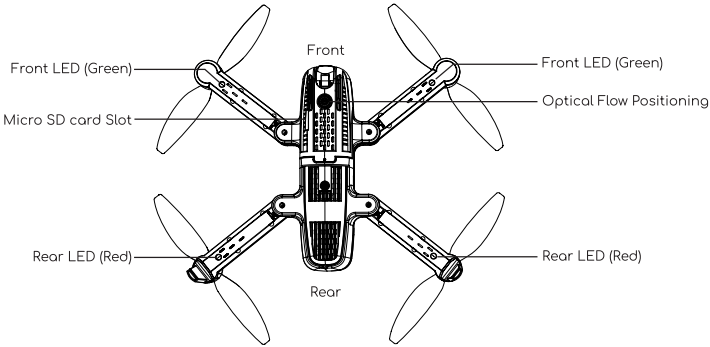
1* Instruction Manual

1* Accessory Bag

1* Quick Start Guide

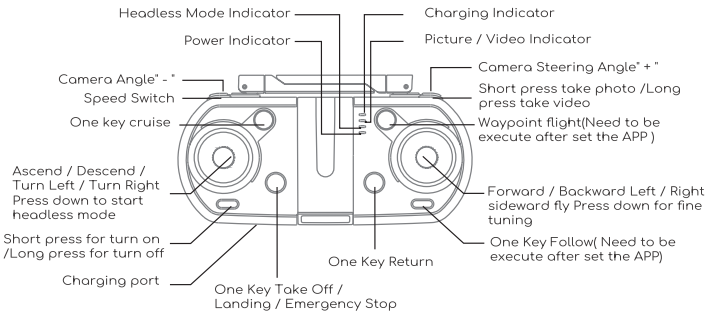
DRONE STRUCTURE



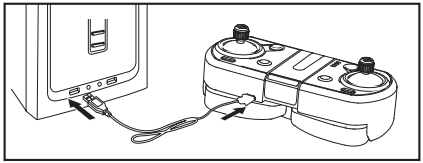


TRANSMITTER

1. Introduction of Transmitter



2. Transmitter's battery charging



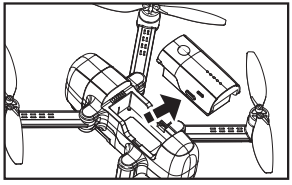
Charging the transmitter by connecting with USB cable. The power output is 5V/1.5A or 5V/2A.

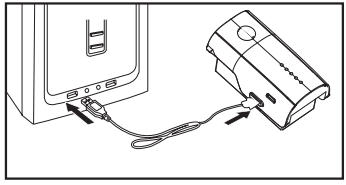
CHARGING OF LITHIUM BATTERY

The battery of the drone must be charged before flying.

The instruction of charging battery:

1. Release the battery by pressing the lock button and take it out.
2. Connect with USB cable to the power supply device for charging the battery.
3. The power indication light would be flashing when the battery is charging. The light would stop flashing if it is fully charged. It would take 240-300 minutes for charging the battery, which is available for 22 minutes flying time.



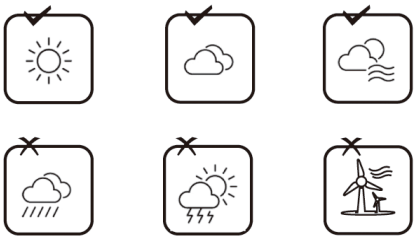


★ Note: If the drone would not be used for a long time, please maintain 50% power capacity. It would lengthen the using lifespan of the battery.

PREPARATION BEFORE FLIGHT

1. Check the surrounding environment before flying.
Indoor: Please check there is no any obstacle if you are playing indoor.

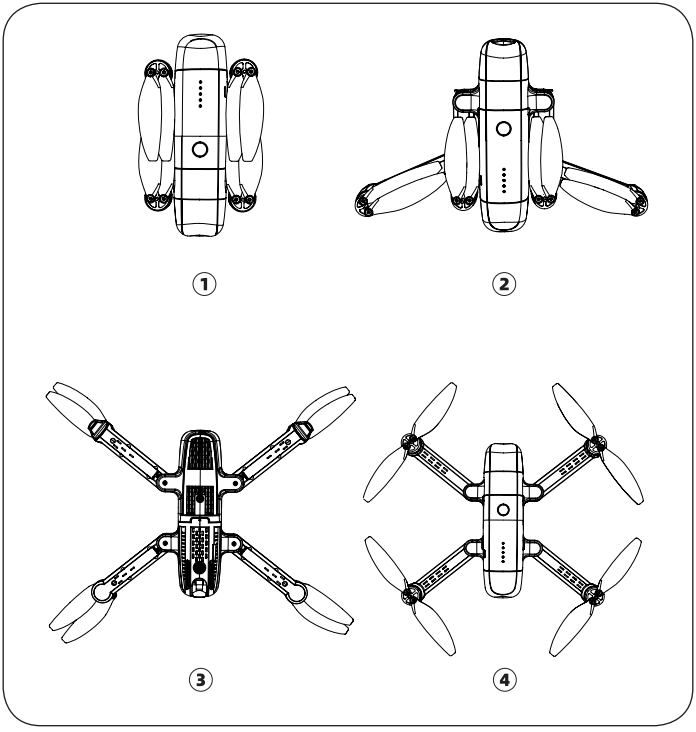
Outdoor: Please check the weather condition is available for flying. Avoid flying in cloud, fog or heavy rain.



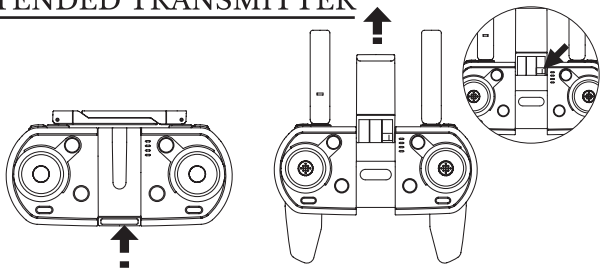
2. Please always fly your drone within visual line-of-sight (not by using binoculars or watching a video screen). Not flying behind trees, buildings or anything else that stops you seeing your drone at all times.

UNFOLDING INSTRUCTION

1. Open Blades



2. EXTENDED TRANSMITTER

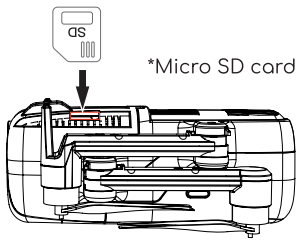


2.1 Push the smart phone holder up.
2.2 Adjust the holder up to a suitable position for the mobile phone
2.3 Pull the left and right antenna stand (Antenna Rotatable).
2.4 Open handles.

Note: When retracting the phone holder, please toggle the buckle on the holder to the left and retract the holder inward. (As shown in the upper right corner picture)

INSTALLATION OF MICRO SD CARD

Insert the Micro SD card into the slot on the fuselage, and pay attention to the metal contact surface orientation of the Micro SD card.



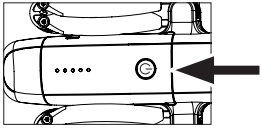
*Micro SD card is not included.

OPERATIONAL GUIDELINES

1. Download the "HK FLY GPS" APP by scanning the QR code or searching it from the APP store / Google play on your phone.

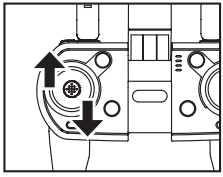
For Android/IOS system to scan & download

2. Plug the battery into the Drone.



3. The LED lights under the four motor bases of the Drone will flicker by long pressing the power switch for 2s. Put the Drone on a horizontal plane.

4. Indicator Light will flicker by opening the power supply of the transmitter. Push the left joystick to the highest point, then return to the lowest point, when you hear the sound of "Di Di", that's mean the transmitter is completed sync with the Drone. (The LED light at the bottom right corner flickers slowly).



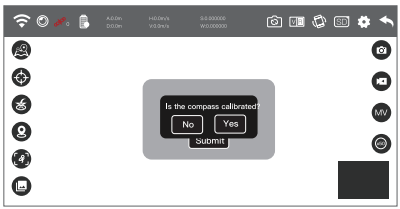
5. Open the wifi setting of the mobile phone and find "HK-GPS-XXXXX" in the wifi search table.

6. Connect until the appearance of "CONNECTED ALREADY", it indicates that the connection is successful.

7. Open the "HK FLY GPS" downloaded in the mobile phone, and click on the icon to enter the control interface,the phone screen enters real-time image.

Note: If wifi cannot be successfully connected, please try it again above steps.

A: Open "HK-FLY-GPS"APP
B: Click "ENTER



APP will enter the main interface by clicking "YES" and the calibration page if clicking "NO"

At the first time using the drone, must click "NO" to enter the calibration page. Then following guide to calibrate the drone.

Notes:

★ Before flying, please calibrate the Drone on a horizontal plane, and make sure stable flying after take-off.

★ The Drone is searching for GPS signal if the LED light at the bottom right corner flashed slowly, (Please connect to wifi, the geomagnetic calibration please refer to Page 2 on wifi instruction manual.)

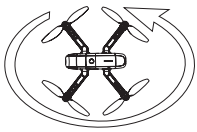
★ The Drone will automatically turn off if no operation within 5 minutes.

GEOMAGNETIC CALIBRATION

When the two rear LED lights of the Drone flash red quickly, the Drone enters geomagnetic calibration.

1. Pick up the Drone and rotate it horizontally clockwise or anticlockwise till the LED light at the bottom left corner of the Drone is normally-on;
2. Erect the Drone and then rotate it clockwise or anticlockwise till the LED light at the bottom right corner of the Drone is normally-on.
3. If the 4 LED lights is normally-on, it indicates successful calibration.

Calibrate



Calibrate

Notes:

★ When the Drone flies for the first time in a new place, it cannot be operated before successful geomagnetic calibration. If you click "YES" by mistake, please exit the backstage and re-enter the APP for calibration.

★ If the Drone collides or unstable during flying, turn it off and take it on a horizontal plane. Then restart the drone, sync with the remote again and enter the APP operation interface for gyroscope calibration.

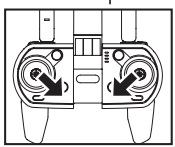
TAKE OFF THE DRONE

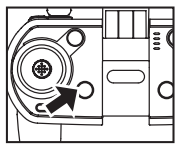
1. Enter the operation interface after successful geomagnetic calibration.

2. After successful geomagnetic calibration and wifi connection, the LED light at the bottom right corner will flash slowly (The Drone is searching for GPS signals at status.). The drone is ready to take off normally if the LED light at the bottom right comer is normally-on.

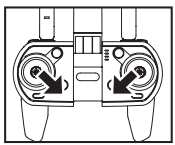
3. When all the LED indicators of the drone are normally-on, click the button of the " (gyroscope calibration)" on the APP to completed calibration. While the number of GPS parameter satellites is more than 6 in the upper right corner of the APP, move both the left and the right joysticks toward the inner lower angle to start.

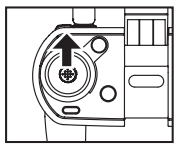
4. Operate both the left and the right joystick toward the inner lower angle and loosen at the same time, the paddles will rotate:
   Pressing "One-key take-off/landing" on the transmitter, the Drone will automatically take off, then determine the height and spot hover at this position .





Or Push up the left joystick to make the Drone ascend to a certain height. Loosen it, the Drone is spot hovering at this position.





Notes:

★ Optical flow positioning will use image change processing to detect the state of the ground, maintain the horizontal position of the drone, and make take-off and landing more stable.

★ The Drone is searching for GPS signal if the LED light at the bottom right corner flashed slowly(Please connect to wifi, the geomagnetic calibration, please refer to Page 2 on wifi instruction manual).

THE OPERATION OF LANDING

1. The Drone will land on the ground automatically by holding the left joystick at the lowest position and the paddles will stop rotating.
2. The Drone will land on the ground automatically, and the paddles will stop rotating by pressing the "One-key take-off/landing.

★ Emergency Stop:
You can pressed "One-key take-off/landing" twice in case of an emergency, the Drone will stop after hearing two "Di "sounds from the transmitter.
Or operate both the left and the right joystick toward the external lower angle and loosen at the same time, the Drone will stop.

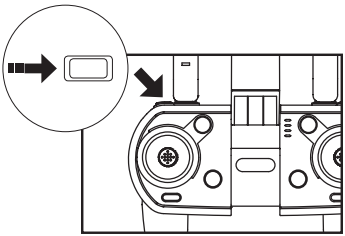
★ All emergency stop functions cannot be executed unless the Drone altitude is lower than 2M.

OPERATION AND CONTROL

1. How to switch the speed mode

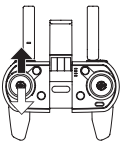
While operating the Drone, the operator can adjust the drone's speed according to specific needs. The key on the top left corner of the transmitter is used for speed mode switching.

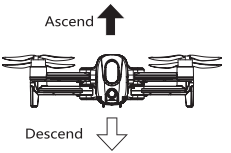
1.1 "Di" sound mean low speed mode. (Default mode)
1.2 "Di" "Di" sounds mean medium speed mode.
1.3 "Di" "Di" "Di" sounds mean high speed mode.



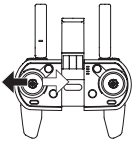
2. Basic action operating methods

1. The Drone will ascend or descend accordingly by pushing the left joystick to upward or downward.

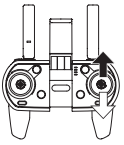


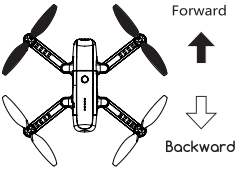


2. The Drone will turn left or right accordingly by pushing the left joystick toward the left or right direction.

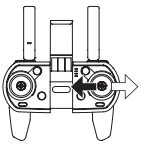


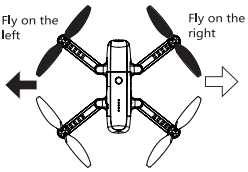
3. The Drone will go forward or backward accordingly by pushing the right joystick upward or downward.





4. The aircraft will fly on the left or right side accordingly by pushing the right joystick toward the left or right direction.

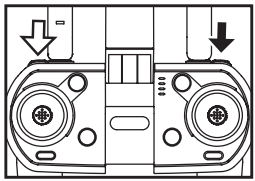


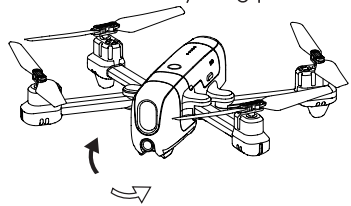


3. How to adjust the camera angle

3.1 The camera will rotate upward for one time by pressing the " (camera upward key)" of the transmitter right side. The camera will gradually rotate upward by long press.

3.2 The camera will rotate downward by pressing the" (camera downward key)" of the transmitter left side. The camera will gradually rotate downward by long press.





Notes:

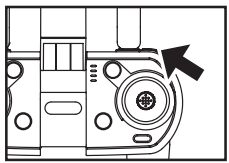
★ The adjustable angle is larger than 90°.

★ Dynamic adjustment can be made to the angle of lens in the flight process, letting the pictures more fluent and more beautiful.

Photographing and video recording with the transmitter.

In the flight process, photographing and video recording can be realized by APP software and the keys on the transmitter.

Short press to take a photo. Long press to record a video, press again to end.



★ Note: The images and videos will record into the smartphone and Micro SD card (The package does not contain a Micro SD card.)

4. File reference

4.1 The pictures and videos can be checked in the APP multimedia library.

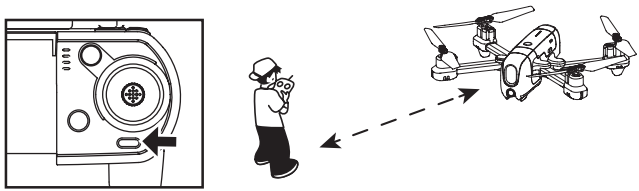
4.2 At the same time, the Micro SD card in the camera shooting board will back up accordingly. Take out the Micro SD card and insert it into the card reader for checking in the computer.

★ When the Drone flies beyond the effective control distance of wifi, the pictures and videos will be stored in the Micro SD card automatically.

FOLLOW ME

The Drone will track the GPS coordinates of the mobile phone by pressing the " Follow me " on the transmitter.

★ Note: This function cannot be operated unless the APP is connected with the drone's wifi and the APP map is normally displayed.



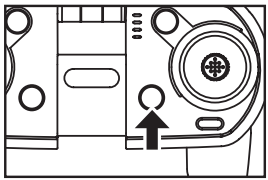
Press the "Follow me" button again or press the right joystick of the transmitter to exit the follow mode.

★ If the mobile phone is out of power or when a call is coming in the following process, the Drone will stop following and be hovering for standby.

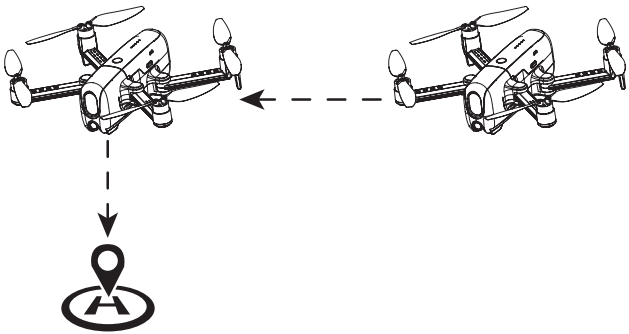
ONE-KEY RETURN

In the normal flying process of GPS, pressing the "One-key return", the Drone will return to the take-off place automatically.

★ If you want to cancel the return procedure for normally drone control, you can operate the right joystick or press the "One-key return" again to cancel return procedure.



The drone will return automatically in the following situations:
1. Low batteries power of the drone.
2. Signal losing.
3. Outage of the transmitter.

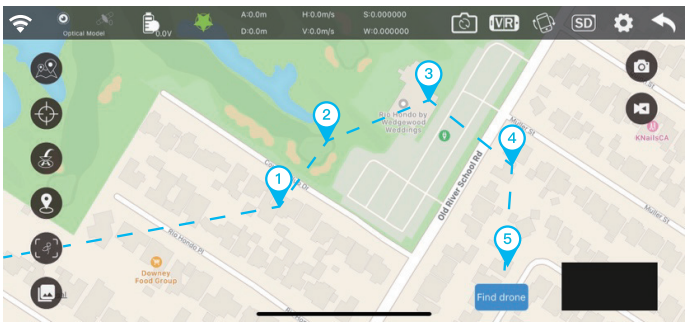


WAYPOINT FLIGHT

This drone support waypoint flight automatically, please setup by the following steps:

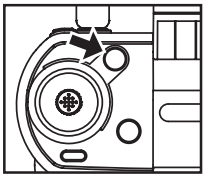
1. Please operate the drone on the place with good GPS signal, so that the APP can match the correct map.
2. Setup no more than 5 waypoints in the APP and click " " to upload (You can setup the flight height, hovering time and flight speed for each waypoint).
3. Pressing the " Waypoint flight take-off" on the transmitter after setting, the drone will automatically fly to the first waypoint to the fifth waypoint in sequence. Then it will be hovering for standby at the last waypoint.
4. Delete the setup of waypoints on the APP, operate the right joystick of the transmitter to quit the waypoint flight mode.

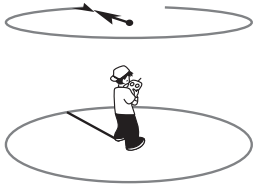
★ Note: If the map cannot be displayed in the APP, please check the GPS situation, then try to exit the APP and open it again.



ONE-KEY SURROUNDING

1. Click“ ” to setup the “rounding radius” and “round height”;
2. Pressing the button “One-key surrounding” on the transmitter;
3. The drone will upward the round height value, and the drone’s front camera adjust the correct direction.
4. Starting 360° surrounding.
5. The drone will hover at the round height value after surrounding one circle and waiting your command.





During circle flight, pull the right joystick to change the drone’s flight distance and flight speed (As fly further/fly closer/fly fast/fly slowly), press the button of one key for circle flight again, the drone stop circling.

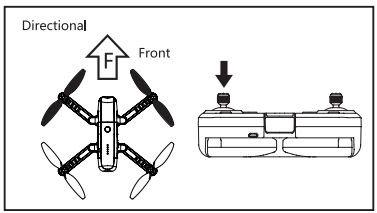
HEADLESS MODE

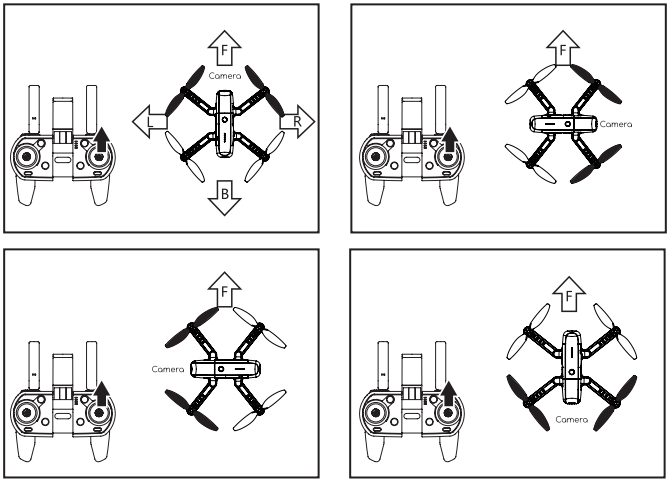
Headless mode: The flying direction of the drone is always the same as the operator's direction, and the flying direction has no related to the direction of the drone's head and tail.
In headless mode, when the direction of the drone is related to the operator, the operator will feel easier to control, especially when the drone is out of sight.

★ START:
1. Make sure the transmitter has completed sync with the drone, put the drone on a horizontal plane or hover in the sky.
2. Make sure the Drone front (the position of camera is the front) is consistent with the front of transmitter.
3. Vertically pressing the left joystick (The transmitter's third blue led will light up).
4. The diagonal LED lights under the drone's motor base will be flash.

★ QUIT:
Vertically pressing the left joystick again (The transmitter's third blue led will light off), all of the LED lights under the drone's motor base will be normally-on.

★ This function just could be started when GPS signal is lossing.

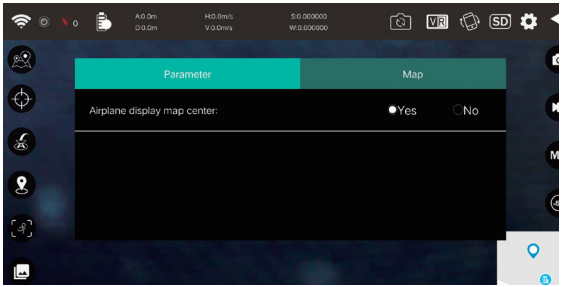


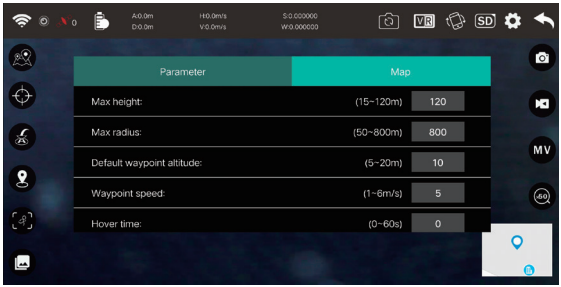


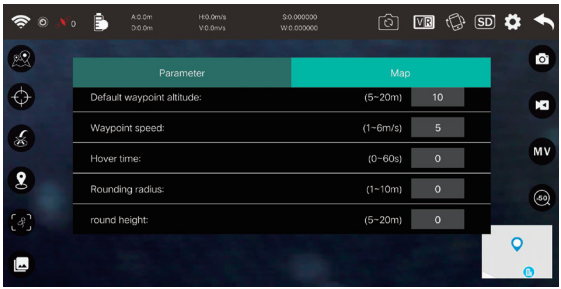
As shown in the above image, the forward/backward flying direction has no related to the direction of the drone's head and tail, it only control by the transmitter direction. (The transmitter is always behind the drone.)

INDIVIDUALIZED SETTINGS

Click "⚙ " on the APP for various settings.







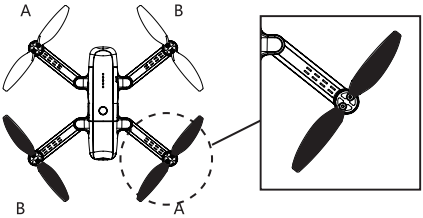
3D DISPLAY

The consumers can purchase VR glasses for 3D image experience. Clicking " VR" at the top right corner on the APP, the APP interface will be divided into two parts.
Please refer to the specification for wearing of VR glasses and adjustment of related parameters (such as focal length).

REPLACEMENT OF FAN BLADE

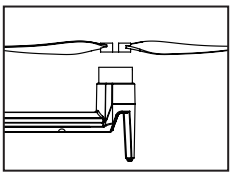
In case of bruise or deformation, the user can take out the fan blades for replacement.

1. The fan blades should be installed at the required position.
2. The letters on the blade must be consistent with the letters on the motor cover, namely "A" to "A" and "B" to "B". Otherwise, the Drone cannot take off normally.



Steps:

1. Disassemble the anchor screws of the fan blade and the lower lampshade, and take out the damaged fan blade.
2. Take out the new fan blade, align it with the screw hole.
3. Lock the fan blade fixing screw. (Screw must be locked tightly)



SAFETY NOTES

1. Keep away from obstacle:
   This product is suitable for outdoor flight. Please shall from the obstacle-environment, so as to avoid collision with any person or other objects.

2. Keep long-time storage away from a damp or high temperature
   The Drone consists of many precise electronic elements. If keep long-time storage on the damp, high-temperature, it may damages to the electronic elements.

3. Use safety of lithium battery:

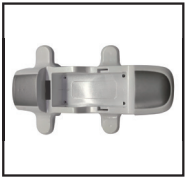
1). It is prohibited to refit or use other lithium batteries for flight.
   The lithium batteries produced by different manufacturers differ a lot in terms of internal configuration.
2). Please use the brand of 5V/1.5A/2A adaptor, so as to avoid short circuit, expansion, deformation, fire, explosion and other risks during charging.
3). If this product will not be used for a long period of time, please take out the battery to avoid leakage and fault. In case of any expansion, deformation of the battery, please do not use again.

TROUBLE SHOOTING

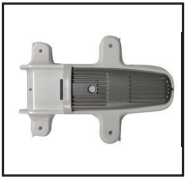
Issue	Cause	Solution
The Drone has no response	1. Unsuccessfully sync with transmitter; 2. Low voltage of the Drone or the transmitter;	1. Please try to sync with transmitter again; 2. Recharge the battery of the transmitter or the drone;
Fail to take off	1. Wrong assembly of the fan blade; 2. Deformation of the fan blade after collision; 3. The LED light of the Drone flickers;	1. Check the part of fan blade installation in the specification; 2. Strengthen or replace the fan blade; 3. Low-voltage protection or recharge the Drone;
Shaking of the Drone	1. Deformation of the fan blade after collision; 2. The gyroscope is not calibrated;	1. Strengthen or replace the fan blade; 2. Please refer to the manual to calibrate the gyroscope;
Delayed response or interrupted signal of the Drone	1. Low voltage of the transmitter; 2. The signal of current environmental is poor;	1. Recharge battery of the transmitter; 2. Please make sure to use in a good signal environment;
The Drone cannot hover.	1. The geomagnetism is not calibrated; 2. The gyroscope is not calibrated.	1. Please refer to the manual to calibrate the geomagnetism; 2. Please refer to the manual to calibrate the gyroscope;
The LED light at the bottom right comer of the Drone flashes slowly.	No GPS signal is searched.	1. Please wait patiently for GPS signal searching during the first flying. 2. Keep away from those places with large interference such as electric tower and high voltage electricity; 3. Please do not operate in environment without GPS signal, such as the basement or indoors.

The four LED lights of the Drone flash quickly.	Performing gyroscope calibration	Put the Drone on a horizontal plane
The two rear LED lights of the Drone flash quickly.	Performing geomagnetic calibration	Please refer to the manual to calibrate the geomagnetism

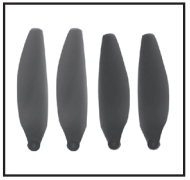
LIST OF SPARE PARTS



1.Top body



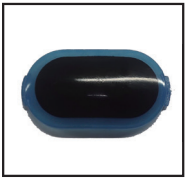
2.Bottom body



3.Blades

4.Transmitter

5.Rear arm

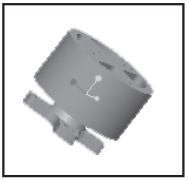


6.Lampshade

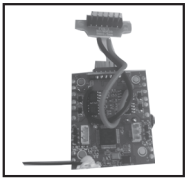
7.Camera

8.Front arm

9.Rechargeable battery



10.Brushless motor



11.Receiver board

12.GPS module

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