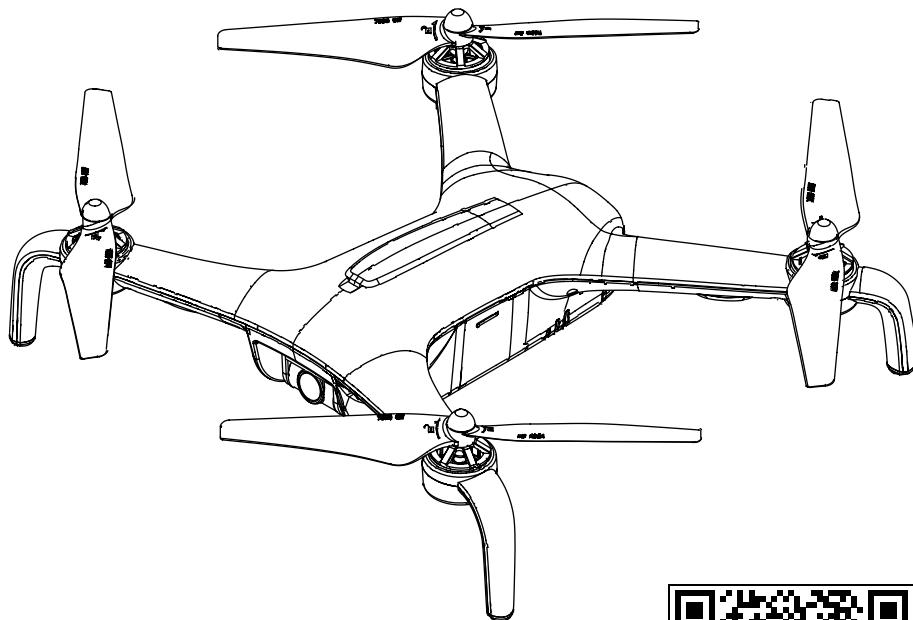


# DF805B Operation Manual



Download APP

## ***Important***

- For your safety and to avoid loss of property, please read this manual carefully.
- Please do not try to disassemble, modify or repair the aircraft, if necessary, please contact the agent.
- This manual is concise. For more detailed, please go to the "Help" in the upper right corner of the APP main interface to download the electronic documents.
- This instruction is updated without prior notice.

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## I. Important Note

### 1. Flight safety

- (1) This aircraft is not a toy. It is not suitable for children under 14 years.
- (2) Please know the local laws, regulations, flying environment, etc before flying, stay away from sensitive places, and fly within the scope of local laws and regulations!
- (3) Please make sure that the aircraft is flying in the range of sight. do not fly the aircraft behind the obstacles, otherwise it may lead the aircraft out of control to cause accident.
- (4) Please make sure that the remote controller and the mobile device connected to APP are in hand so that the aircraft can be controlled at any time to prevent accidents!
- (5) Please make sure that the moving parts of the aircraft are far away from the human body and other objects.
- (6) Please turn off the power supply of the aircraft and remote controller in time when stop flying.
- (7) Lithium batteries must be monitored when charging. Abnormal conditions should be disposed of in time to prevent accidents, during the use of lithium batteries, please strictly observe the instructions.
- (8) In order to meet the requirements of electromagnetic environment of Aeronautical Radio stations, it is forbidden to use various types of model remote controllers in areas with a radius of 5000m and a center of the airport runway. during the period of issuance of radio control orders by relevant departments, the use of model remote controllers should be stopped as required.

### 2. Flight environment requirements

- (1) Choose open areas, far away from people, animals, buildings, trees, high-voltage cables and other obstacles, etc



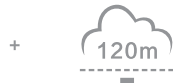
Fly in Open Areas



Strong GPS Signal



Maintain Line of Sight



Fly Below 400 feet(120m)

- (2) Do not fly in bad weather, such as windy, rainy, snowy and foggy weather, etc



- (3) Far away from tall buildings, high-voltage cables, communication base stations and WiFi hotspots, similar facilities will seriously affect the work of aircraft, resulting in flight accidents caused by abnormal flight data.



- (4) Do not contact the propeller in rotation, otherwise it may cause serious personal and property damage, understanding the no fly zone and flight safety matters is very important for the safety of the people and environment around you. Please enter the APP to see the download disclaimer.



### 3. GPS mode and flight mode

The aircraft has built-in GPS positioning module, which must be positioned with GPS equipment in autonomous flight mode and other functions. When the aircraft meets the following conditions at the same time, the aircraft enters the GPS positioning mode:

- (1) Flight mode on RC is P mode;
- (2) When the GPS horizontal positioning factor satisfies the condition;

At this time, the aircraft can maintain a good hovering attitude and autonomous flight.

When any of two conditions are missing, the aircraft automatically enters the attitude mode. At this time, due to the environmental impact, the aircraft may cause drifting when hovering. At the same time, all autonomous flight functions will not be used.

***Illustration:Autonomous flight refers to the flight of aircraft which does not depend on the user's control. It takes place by acquiring position data through its own GPS positioning system. For example,RTH, one key return,way point flight and flying around,etc***

### 4. RTH(Return to home)

When the aircraft enters the GPS positioning mode before takeoff, the built-in GPS equipment of the aircraft can automatically record the takeoff point. The location at which the aircraft acquiescence is recorded is the return point. In the following circumstances, the aircraft will automatically initiate RTH:

***Notice:when aircraft initiate RTH,only returning to land can control the aircraft.***

- (1) When the battery power is low, the aircraft automatically initiate RTH.
- (2) When the aircraft is disconnected from the remote controller, the aircraft automatically initiate RTH

After entering the RTH mode,if the current altitude of the aircraft is less than 30 meters, the aircraft will climb to the altitude of 30 meters first, then turn to fly back to the take-off point and then slowly descend to the ground. If the current height is higher than 30 meters, it will turn at the current height,then flying back to the take-off point and slowly down to the ground.

During the flight, ensure that the aircraft flies within the visual range, and do not fly to the back of obstacles (such as buildings, trees, etc.). Obstacles will occlude signals, which will lead to the disconnection between the aircraft and the remote controller, thus triggering the aircraft to enter the RTH mode. This may cause the aircraft to hit an obstacle in the course of RTH and cause accidents.

### 5. Low battery warning and protection

- (1) Low battery capacity to initiate RTH

During the flight, when the battery capacity of the aircraft is low, the status indicator of the aircraft turns red and flickers slowly. APP also gives a hint. At this point, the aircraft automatically initiate the RTH mode.

Once it initiate the RTH mode cause low battery capacity, it can not exit, the aircraft can be controlled to change the landing site.

- (2) Serious low battery capacity warning

When the battery capacity of aircraft is serious low,status indicator light of aircraft turns red flash quickly,at the same time,the aircraft will force to land.

### 6. Lose control protection

- (1) lose control protection when GPS position is working

After the aircraft enters the GPS positioning mode,when the communication between the aircraft and the remote controller is interrupted, the aircraft will hover at the current position for 5 seconds, during which time, if the communication can not be reconnected, the aircraft will initiate RTH.

- (2) lose control protection when GPS position is not working

When the aircraft fails to locate by GPS,communication between the aircraft and the remote controller is interrupted for about two seconds, the aircraft will automatically land at the current position.

### 7. Compass calibration

***Notice:When changing the flight site, it is necessary to calibrate the compass before the first flight.***

***In the course of usage, if the aircraft indicator is "alternating flashing blue and green lights", it means that***

*the compass is abnormal and needs to be calibrated.  
Please keep away from the environment with magnetic interference when calibrating, otherwise it may cause calibration failure.*

Compass is built in the aircraft, which ensures that the aircraft will maintain an accurate heading during intelligent flight. The compass condition must be checked for every flight.

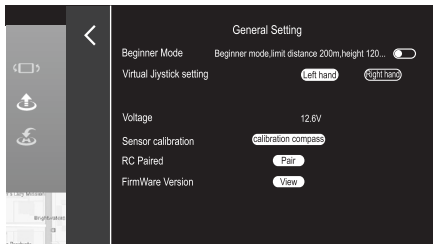
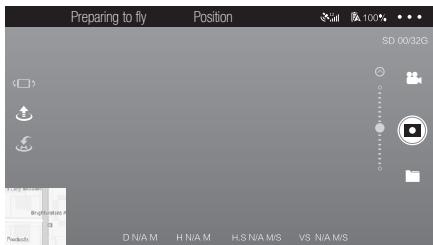
○ **Please calibrate the aircraft compass, if one of the following scenarios happens:**

- (1) Before flying at the new flight site;
- (2) The aircraft status indicator indicates the abnormal compass;
- (3) APP and aircraft recommend to calibrate the aircraft compass;
- (4) Serious drifting during hover or flight.

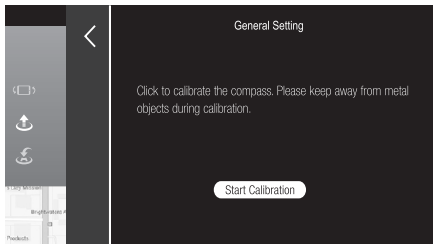
○ **Method of calibrating compass by APP:**

(1) Entering calibration mode

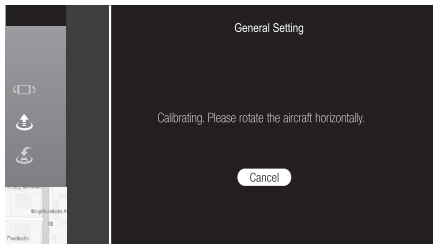
When the aircraft and APP are connected properly,click on the'...'icon in the upper right corner of the APP control interface to enter the "General Settings" menu.



Then click the " compass calibration" icon.  
When APP pops up the prompt, check the current environment and stay away from metal objects. then click the "calibration" icon.



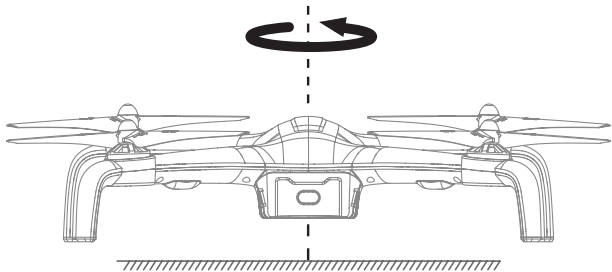
Meanwhile,the status indicator on the aircraft's rear arm will turn blue and red lights flashing alternately, which will enter the compass calibration mode.



(2) Compass calibration

Step 1:Horizontal calibration

When the APP prompts the horizontal rotating aircraft, the aircraft is placed horizontally in the hand, and then rotated horizontally until the status indicator on the arm of the aircraft changes to red and green light flashing alternately (i.e., the horizontal calibration is successful).



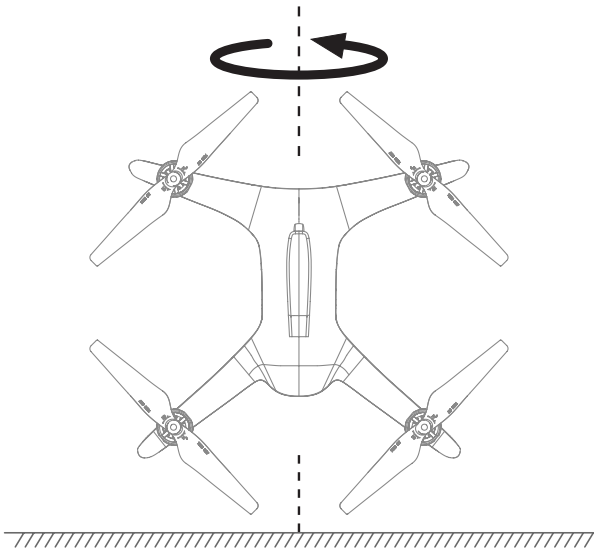
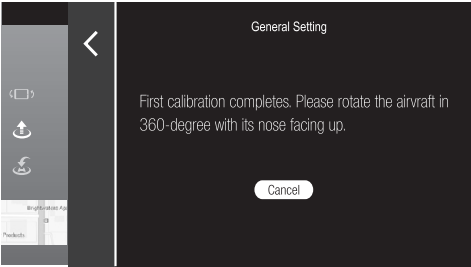
Step 2: Vertical calibration

When APP prompts the aircraft to head up and rotate, hold the aircraft in your hand and head up. Place the fuselage vertically on the ground and then rotate the aircraft horizontally.

The compass is calibrated successfully when the status indicator on the aircraft's rear arm turns green (always on or flashing).

At this point, APP indicates that "calibration is successful" and click Finish to end the calibration operation. ◦

If the status indicator turns red (about 6 seconds),which menas compass calibration fails, please change the position and re-calibrate.



II. Instructions for lithium batteries usage

**Warning:** Read the entire user manual and familiar the functions of the product before proceeding. If the product is not properly operated, it may cause serious injury to itself or others, or lead to product damage and property loss.

*This product is more complex, it needs a period of familiarity before it can be used safely, and it needs some basic knowledge before it can be operated. Without a strong sense of safety, improper operation may lead to damage and property loss, or even serious injury to oneself or others.*

*This product is not suitable for children. Do not use components that are not provided or recommended by us. Please must strictly observe the instructions and install and use the products. The instructions contain safety, operation and maintenance instructions*

*Be sure to read all instructions and warnings and related documents carefully before assembling, setting up and using them. Improper use, charging or storage of batteries may cause fire, articles or personal injury. It is important to refer to the following instructions for using batteries.*

## 1. Usage

- (1) No battery is allowed to be exposed to any liquid. Do not immerse the battery in water or wet it. Never use batteries in rain or damp environment. Contact with water inside the battery may lead to decomposition reaction, self-ignition of the battery, or even explosion.
- (2) Non designated batteries are strictly prohibited. If need to change, please contact the dealer to find out the relevant purchase information. Using unofficially supplied batteries may damage products or flight failures, or even cause accidents.
- (3) It is strictly prohibited to use batteries that are bulging, leaky, and packaged. If any of the above occurs, please contact the sales agent or designated agent for further processing.
- (4) Do not hit the battery. Do not place objects on batteries or chargers.
- (5) The battery should be used between ambient temperature of 0 and 40 degrees Celsius. When the temperature is too high (above 50 degrees Celsius), the battery will catch fire or even explode. If the temperature is too low (below 0 degrees Celsius), the battery life will be seriously damaged.
- (6) It is forbidden to use batteries in strong static or magnetic fields. Otherwise, the battery protection board will fail, resulting in serious failure of the aircraft.
- (7) It is forbidden to disassemble in any way or pierce batteries with sharp objects. Otherwise, it will cause battery ignition and explosion.
- (8) The liquid inside the battery is highly corrosive. If there is any leakage, keep away from the battery. If the liquid inside the battery splashes onto human skin or eyes, please rinse it immediately with clean water for at least 15 minutes and seek medical treatment immediately.
- (9) If the battery falls or is hit by external force, it must not be used again.
- (10) If the battery accidentally falls into the water during the flight or under other circumstances, pull out the battery immediately and place it in a safe open area. At this time, keep away from the battery until the battery is completely dry. Dry batteries should not be used again, and should be disposed of according to the waste method. If the battery is on fire, use solid fire extinguishers. It is recommended to use fire extinguishers in the following order: sand, blanket, dry powder and carbon dioxide fire extinguishers.
- (11) Do not place batteries in a microwave oven or pressure cooker.
- (12) Do not place battery core on the plane of conductor.
- (13) No wires or other metal objects are allowed to cause positive and negative pole short circuits.
- (14) If there is dirt on the battery interface, clean it up with dry cloth. Otherwise, it will cause bad contact, resulting in energy loss or no charge.

## 2. Charge

- (1) The battery must be charged with the official charger. Charging with an unofficial charger can damage products and even cause safety accidents. We will not be responsible for all the consequences.

- (2) When charging, please place the battery and charger on the non-flammable and combustible ground (such as cement ground). Please pay attention to the charging process to prevent accidents.
- (3) It is forbidden to charge the battery immediately after the flight is over. At this point, the battery is in a high temperature state, and forced charging will cause serious damage to the battery life. It is recommended that the battery be reduced to room temperature before charging. The ideal charging environment temperature (5 -40 C) can greatly extend the battery life.
- (4) After charging, please disconnect the charger from the battery immediately. Regularly check and maintain charger. Do not use damaged charger.

### 3. Storage and transportation

- (1) Please store batteries in places where children can't reach. If children accidentally swallow parts, they should seek medical help immediately.
- (2) It is forbidden to place batteries near heat sources, such as cars, fires or heaters in direct sunlight or hot days. The ideal storage temperature of the battery is 22 ~28 C.
- (3) Storage of batteries should be kept dry. Do not place batteries in water or where they may leak water.
- (4) It is forbidden to impact, crush, puncture batteries, prohibit battery falling or artificial short circuit.
- (5) It is forbidden to store or transport batteries with spectacles, watches, metal necklaces, hairpins or other metal objects.
- (6) Do not transport damaged batteries. Once the battery is needed, the battery will be discharged to about 30%.
- (7) If don't use batteries for more than 10 days, please store the batteries at 40%~65% of the power, which can prolong the service life of the batteries.
- (8) Do not store the battery for a long time after it has been completely discharged, so as to avoid the battery entering an over-discharged state and causing damage to the battery core, which will not be able to resume use.

### 4. Disposal

- (1) The battery must be completely discharged before it is placed in the designated battery recycling bin. Batteries are dangerous chemicals and are strictly prohibited from being disposed of in ordinary garbage bins. For details, please follow the local laws and regulations for battery recovery and placement.
- (2) Batteries can not be used after over-discharge. Please dispose of them.

### 5. Maintenance

- (1) Do not use charger in temperature is too high or too low.
- (2) Do not store batteries at room temperature above 60 degrees Celsius.
- (3) Do not overload the battery, otherwise it will damage the core.
- (4) If the battery is idle for a long time, its performance will be affected.
- (5) Recharge and discharge once every 3 months to maintain battery activity.

### 6. Attentions for boarding

- (1) Before bringing the battery on airplane, please discharge the battery to less than 5% of the battery.
- (2) Please store the battery in a ventilated and dry place.

## III. Disclaimers and warnings

This product is not a toy! In the process of using, must ensure safety control. This product is not suitable for children under 14 years age. Do not expose children to this product. Be careful when using this product in places where children are present.

If users don't have extensive flight experience, we recommend that learn to fly under the guidance from an experienced pilot.

Be sure to read this manual carefully before using the product to understand your legitimate rights and interests, responsibilities and related safety instructions. Otherwise, it may bring about property loss, safety accident and personal safety hazard. Once this product



is used, it is deemed that you have understood, approved and accepted all the terms and contents of this statement. Users promise to be responsible for all their consequences and their actions. The user undertakes to use the product for legitimate purposes and agrees with this clause and any relevant policies or guidelines that we may formulate.

## IV. Technical support

We guarantee that all products are strictly checked and tested before they leave factory. If there is any new technical information or change, we will publish it on the relevant web page in time.

Users can contact the local distributor and get technical support or purchase the necessary spare parts.

## V. Beginner mode

When beginners use this product, can open the beginner mode in APP in order to fly more safely. Once the beginner mode is activated, the aircraft must be positioned after GPS to unlock the flight. If the aircraft can not be controlled after take-off, the RTH can be used to allow the aircraft to return automatically.

## VI. Know DF805B

DF805B is a flight camera equipped with gimbal and high-definition camera, with DF805B intelligent flight mode.

DF805B has the way point flight, follow me, RTH, orbit, automatic take-off and landing, etc. It is equipped with a camera that can adjust the pitch angle, so that you can get a unique perspective and composition, and take unique photos and videos.

can fly up to 23 minutes.

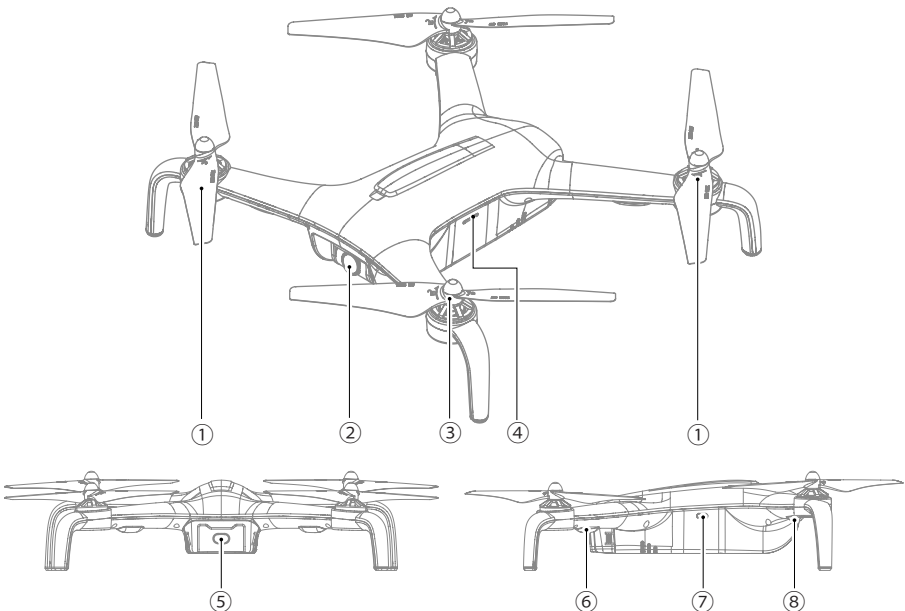
### 1. Aircraft

#### 1) Description of aircraft components

① Reverse Motor/Propeller

② Gimbal/Camera

③ Forward Motor/Propeller



④ TF Slot

⑤ Battery Of Aircraft

⑥ Flight Status Indicator

⑦ Micro USB Port

⑧ Head Pointing/Optical Flow Status Indicator

2) Aircraft indicator light

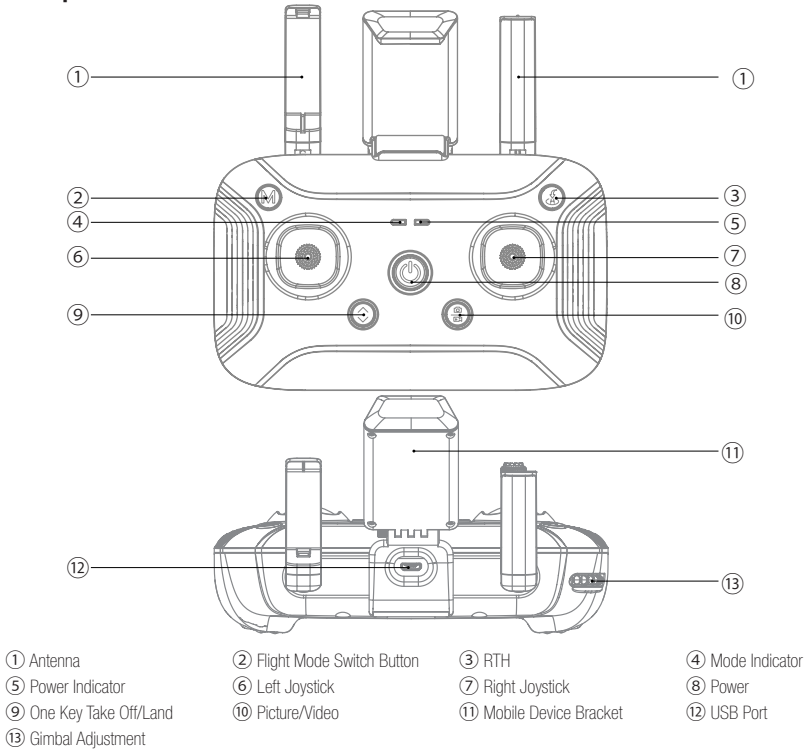
Understanding the status indicator of an aircraft allows users to keep track of the status of the aircraft at any time. Please refer to the following instructions for details.

○ Optical flow status indicator(Front arm indicator)

| Indicator/ Color Status   |   | Status description                           |
|---|---|--|
|  —————     | The blue light is always on during start-up process | Self-inspection                              |
|  —————     | Green light is always on                            | RC and aircraft is paired,GPS is located     |
|  - - - - - | Green light flashing                                | RC and aircraft is paired,GPS is not located |
|  - - - - - | Blue and red light flashing alternately             | Horizontal calibration process               |
|  - - - - - | Red and green light flashing alternately            | Vertical calibration process                 |
|  - - - - - | Blue light flashing                                 | No RC signal                                 |
|  —————     | Blue light always on                                | RC and aircraft is not paired,GPS is located |
|  —————     | Red light always on                                 | Serious error                                |
|  - - - - - | Red light double flashing                           | Serious low battery capacity alarm           |
|  - - - - - | Red light flashing                                  | Low battery capacity alarm                   |
|  - - - - - | Blue and green light flashing alternately           | Compass data error                           |




2. Remote controller

1) Description of Remote controller













## 2) Power indicator status description





### ☐ Charge(Turn off the remote control before charging.)

| Indicator/ Color Status   |                       | Status description |
|---|-----------------------|--------------------|
|   | Green light flashing  | Charging           |
|   | Green light always on | Charge complete    |

### ☐ work

| Indicator /Color Status   |                             | Warning tone   | Status description   |
|---|-----------------------------|----------------|--|
|   | Green light always on       | null           | RC is working normally   |
|   | Red light flashing slowly   | B-B- B-.....   | Low battery warning.Please charging RC immediately   |
|   | Red light flashing quickly  | B-B-B-.....    | Serious low battery warning,RC will automatically turn off when the warning tone stops                         |
|   | Red light always on         | Null           | Serious error  |
|   | Green light double flashing | BB-BB-BB-..... | Idle time is more than 5 minutes,after the operation of the RC, the warning tone will disappear automatically. |

## 3) Mode indicator description

| Indicator / Color Status  |                       | Warning tone | Status description |
|---|-----------------------|--------------|--------------------|
|   | Green light always on | /            | GPS mode           |
|   | Red light always on   | Null         | Altitude mode      |

## 3. Download APP

Please connect APP to use this product. Users can control the flight by APP, as well as the gimbal,camera,set flight parameters by APP.

Scan the following QR code to download APP



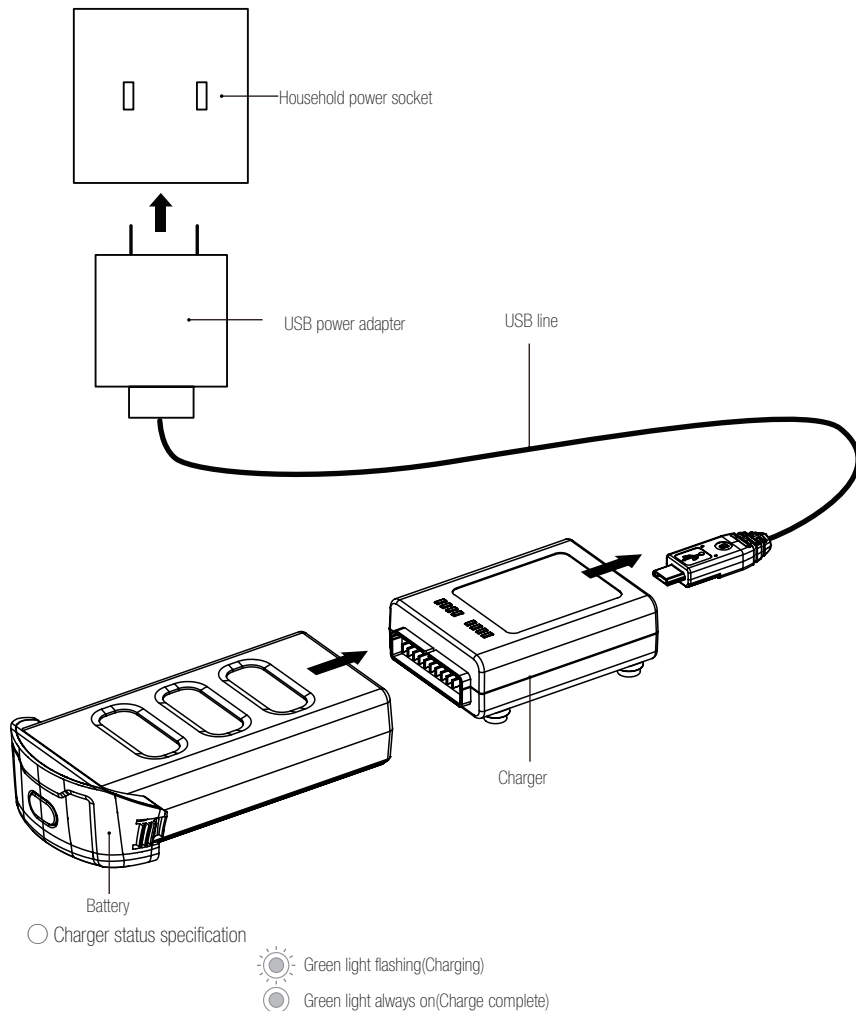
Download APP

**Notice:**The specific operation method of using APP to control the flight of aircraft can be referred to "Flying by APP" in the manual. When using APP, users need to make sure that mobile phone supports 5G Hz WiFi, otherwise users can't connect the aircraft.

## VII. Preparation Before flight

### 1. Charging battery of aircraft

- (1) Connect USB power adapter and flight battery charger with USB line.
- (2) Insert the flight battery into the charger, ensure that the connection is strong
- (3) Connect the power line to the charger and insert the other end into the socket.



**Warning:** In order to avoid possible damage and loss, it is important to use officially manufactured or certified Aircraft batteries and chargers.

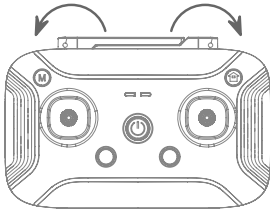
Please charge in a well ventilated environment and ensure that the charging device is far away from the heat source.

When charging, please place the battery and charger on the non-flammable and combustible ground (such as cement ground).

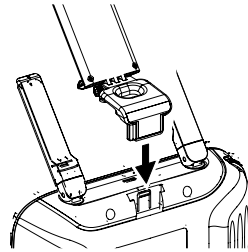
Please pay attention to the charging process to prevent accidents.

## 2. Ready for remote controller(If use APP control, please ignore this step)

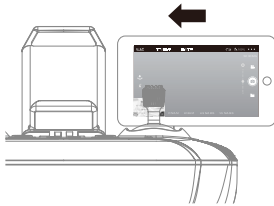
### 1) Before flying, please follow these steps to prepare the remote controller



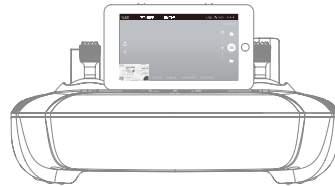
a. Expand the antenna to outside



b. Insert the bracket into the slot on the back of the remote controller



c. Put mobile phone in bracket

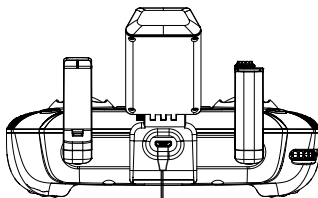


d. Adjust the phone and antenna to the right angle.

### 2) Charge battery of remote controller

Long press power button on remote controller to turn on, when the indicator light is green always on, which means the battery is sufficient.

when the indicator light is green flashing, which means battery capacity is low. Please charge the battery as follows:



USB line

USB power adapter



Household power socket



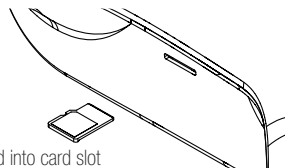
Indicator

● Green light flashing (charging)

● Green light always on (charge complete)

**Warning:** Make sure to turn off the remote controller power supply during charging. When using the remote controller, the charger connection line must be disconnected.

## 3. Insert TF card

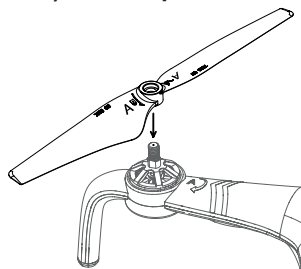


Insert TF card into card slot

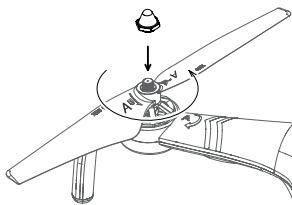
**Caution:** Do not install or remove TF cards when aircraft is power on, otherwise, data storage will be abnormal.

## 4. Installation of propeller

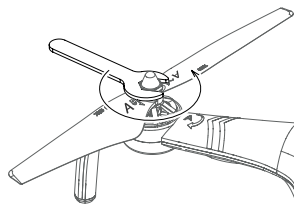
### 1) Install Propeller on A arm



1) The propellers with "A" are placed on the motor of the A arm (motor with concave points on the shaft end).

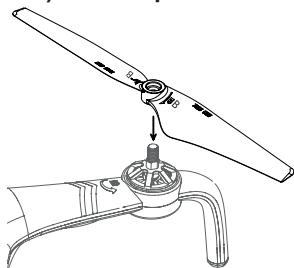


2) Screw the silver fixing nut of the propeller into the motor shaft, and rotate the nut counterclockwise.

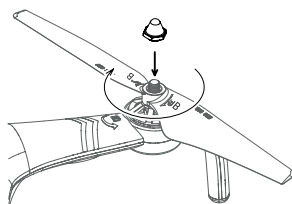


3) Screw the silver fixing nut of the propeller with open spanner counterclockwise.

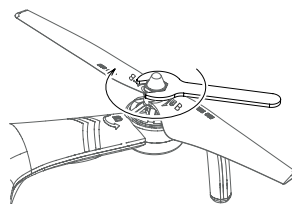
### 2) Install Propeller on B arm



1) The propellers with "B" are placed on the motor of the B arm (motor with concave points on the shaft end).



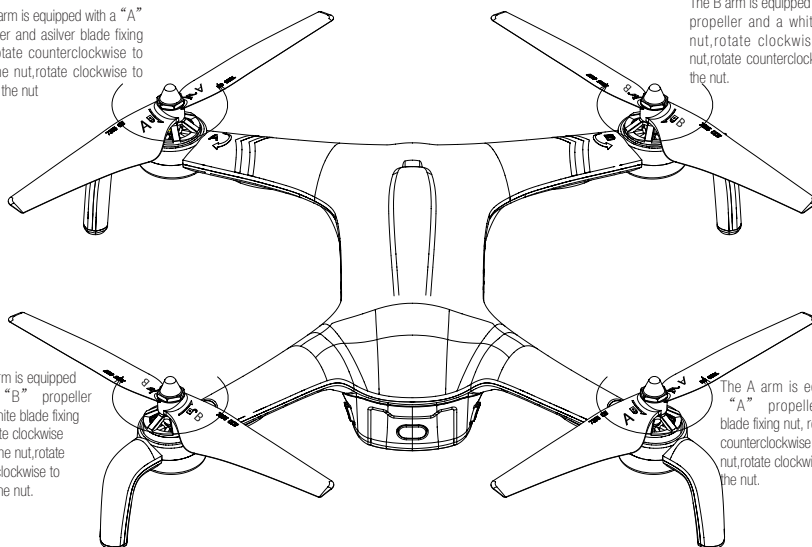
2) Screw the black fixing nut of the propeller into the motor shaft, and rotate the nut clockwise.



3) Screw the black fixing nut of the propeller with open spanner clockwise.

### 3) The correct installation of the propeller is shown below

The A arm is equipped with a "A" propeller and asilver blade fixing nut, rotate counterclockwise to lock the nut,rotate clockwise to unlock the nut



The B arm is equipped with a "B" propeller and a white blade fixing nut,rotate clockwise to lock the nut,rotate counterclockwise to unlock the nut.

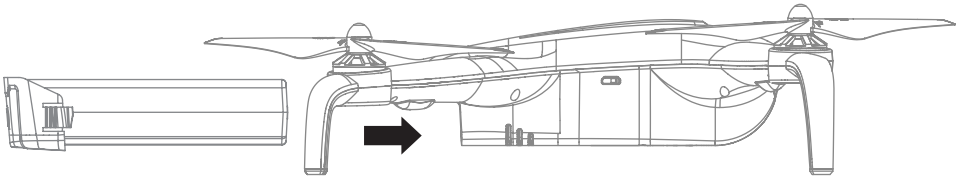
The B arm is equipped with a "B" propeller and a white blade fixing nut, rotate clockwise to lock the nut,rotate counterclockwise to unlock the nut.

The A arm is equipped with a "A" propeller and asilver blade fixing nut, rotate counterclockwise to lock the nut,rotate clockwise to unlock the nut.

## 5. Ready for battery

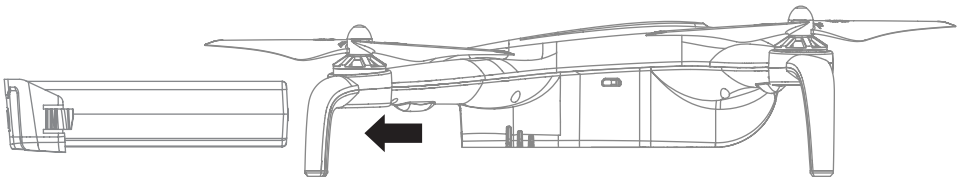
### 1) Install

Insert the battery into the slot as shown;



### 2) Take out

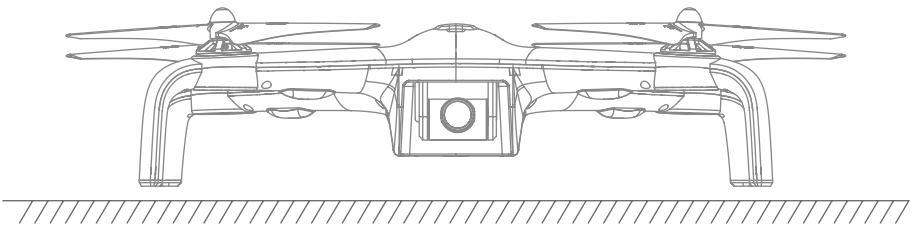
Press the lock button on both sides of the battery as shown, then pull the battery from slot out.



## VIII. Flying with remote control

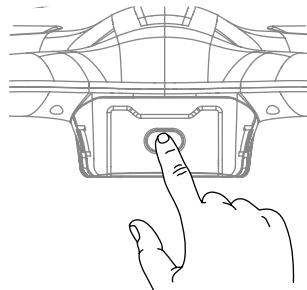
### 1. Power on

#### 1) Put the aircraft on a flat surface



#### 2) Turn on aircraft

Long-Press power button 2s.



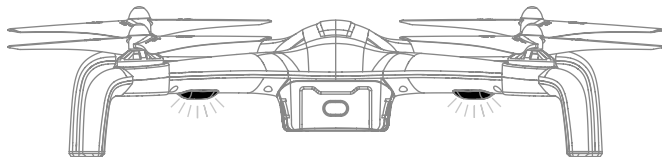
#### 3) Self-inspection and paired with RC

After power on the aircraft, ensure that aircraft is positioned on flat ground 30 seconds to make the aircraft complete self-inspection, when indicator flashing blue to flashing green or always green, which means paired with

more than  
convert  
RC complete

## 2. Connect APP

### 1) The state of the GPS signal indicator after APP is connected to the aircraft.



Indicator convert flashing blue to flashing green or always green.

When the APP is connected to the aircraft, if the indicator of aircraft is green always on, which means GPS is located successfully, change flight mode to GPS mode, then aircraft can take off safely.

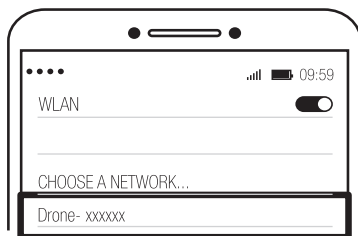
When the APP is connected to the aircraft, if the indicator of aircraft is green flashing, which means GPS signal is weak, or not at all, change flight mode to Altitude mode, then aircraft can take off (Altitude mode is difficult to operate, and is not recommended for beginners).

*Notice: It is recommended that the flight start after the indicator of aircraft is the green always on (when the GPS signal is good).*

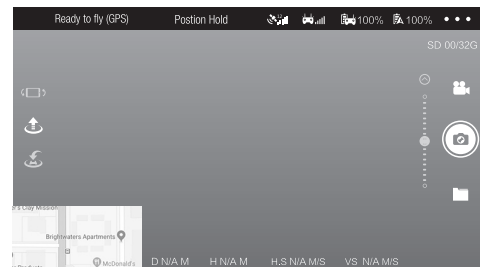
*Please choose an open and unobstructed environment. Tall steel structures and metal materials will interfere with the compass and GPS on the aircraft.*

### 2) Connect APP

In the mobile phone with APP installed, click WLAN setting, choose "Drone-xxxxx", and connected.



Open APP, enter the main interface shown in the left image below. Click on the "start flight" on the interface to enter the right picture as shown below:



*Notice: Only support 5G Hz WiFi mobile phone can connect the aircraft.*

*APP can monitor the picture and the current state of the aircraft in real time.*

*When remote controller and mobile phone APP control the aircraft at the same time, the priority control is remote controller, meanwhile, some of the functions on the app can not be used (take pictures, record video, follow me, way point functions are still available), APP can only operate the aircraft without a remote controller. Please refer to the section "Flying by APP" in the following manual.*



### 3. Operate the aircraft

#### 1) Take off

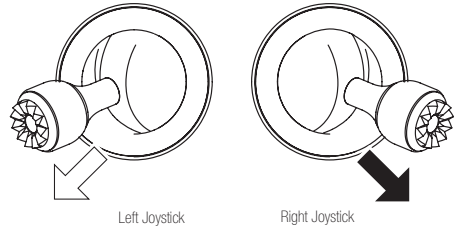
##### ○ Method 1: take off manually

When aircraft is on standby state, please initiate aircraft as shown: Dial left and right joystick outward as pictures show at same time, and keep up more than 3 seconds, the propeller begins to rotate.

Upward throttle joystick to let aircraft off ground fast, then keep upward throttle joystick slowly to let aircraft rise slowly.

##### ○ Method 2: one key take off

Long press "Take off / Land" button 2-3 seconds, There is "B-B-B" sound, meanwhile, the aircraft will automatically take off, and rise up to 1.2m.



#### 2) Land

Before landing, pay attention to the landing site, stay away from the crowd and obstacles, choose a relatively flat ground as the landing site, meanwhile, let the aircraft hover to control.

##### ○ Method 1: land manually

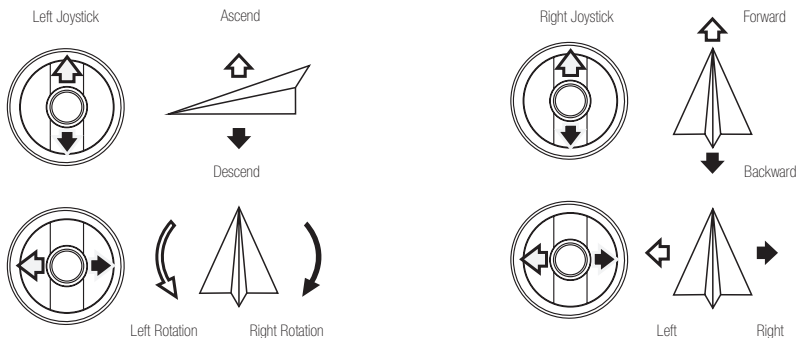
Slowly downward throttle joystick, aircraft will slowly land, when aircraft hit the ground, keep downward the throttle joystick until the propeller stops.

##### ○ Method 2: one key land

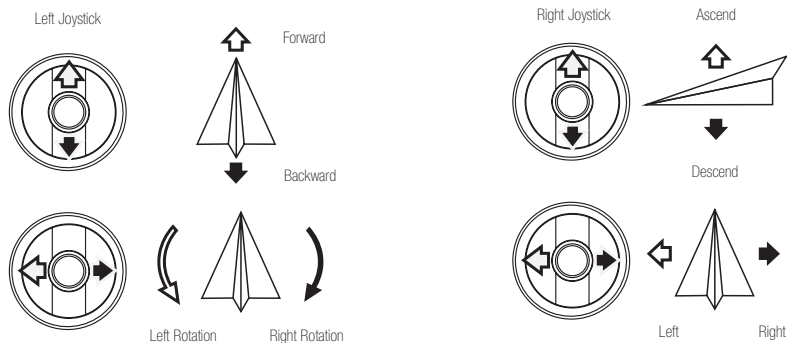
Long press "Take off / Land" button 2-3 seconds, there is "B-B-B" sound meanwhile, the aircraft will automatically landing until propeller stops.

### 3) Remote controller joystick instruction

#### (1) Mode 2



## (2) Mode 1

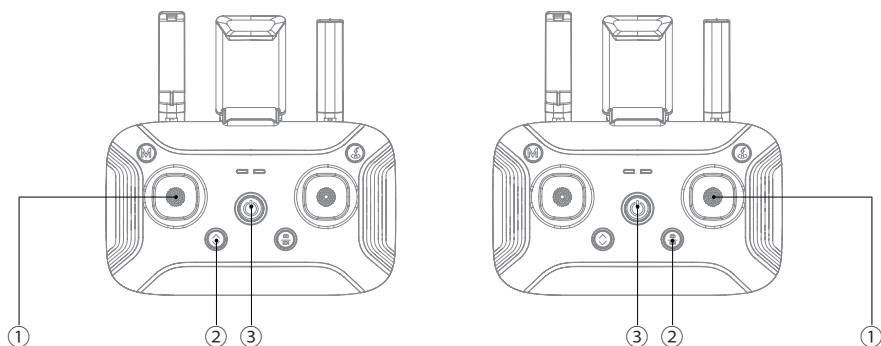


## 4) Switch to mode 1 or mode 2

### (1) Switch to mode 2

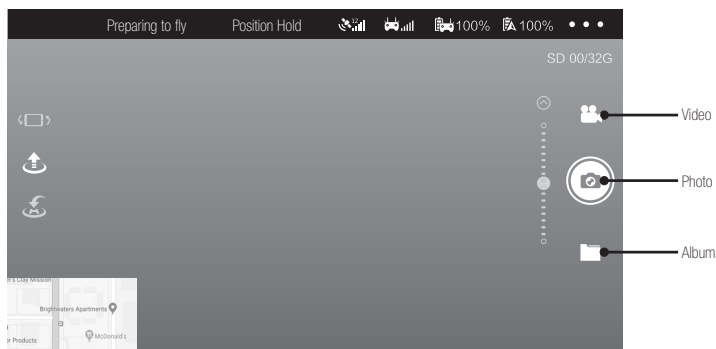
Lower left joystick ① to bottom, meanwhile, press "One Key Take Off/Land" ② button still, turn on the RC ③, then release ① and ②, which means switch to mode 2, as left picture shown:

### (2) Switch to mode 1



Lower right joystick ① to bottom, meanwhile, press "Picture/Video" ② button still, turn on the RC ③, then release ① and ②, which means switch to mode 1, as left picture shown:

## 4. Photo and video



Short press the button to take photos and long press to take videos. You can also short press it to take a snapshot when a video is running in.

During the flight, you can use the “Photo/ Video” button to take image or video footages.

Short press the “Photo/ Video” button and wait until the remote controller beeps, indicating that you have successfully taken a photo.

Long press the “Photo/Video” button and wait until the remote controller beeps steadily, with the APP icon changes from white to red, indicating it has been ready for video shooting. Long press the button again and wait until the remote controller beeps steadily, with the APP icon changes from red to white, indicating it has stopped recording.

### ☐ **Aerial photography tips**

- (1) Check the condition of all parts before flight.
- (2) Take photos or vides when the drone is in position hold mode.
- (3) Shoot on sunny and breezy days.
- (4) Slightly toggle the joystick in mid-flight as to ensure a smooth flight.

**Note:** In order to avoid possible damage or loss, please ensure that the camera is free to rotate. High temperature may cause damage to the camera and even cause injury.

## **5. Flight mode specification**

### **1) Position mode**

#### ☐ **How to enter Position mode**

- a. Default flight mode is GPS mode;
- b. When the drone is in altitude mode and the GPS positioning system is working well, long press the button on the remote controller to switch to position hold mode.

#### ☐ **Indicator light status of the aircraft and the remote controller**

The left indicator light on the controller turns solid green.

#### ☐ **Notice**

In position hold mode, the aircraft will automatically position it own location and hovers steadily. Please choose an open and wide outdoor field before flight, and wait until the GPS turned on before flying it.

### **2) Altitude mode**

#### ☐ **How to enter Altitude mode**

When aircraft is in position mode, long press mode switch button to switch to Altitude mode.

#### ☐ **Indicator light status of the aircraft and the remote controller**

The left indicator light on the controller turns flashing green.

#### ☐ **Notice**

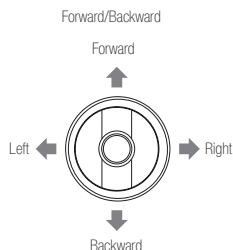
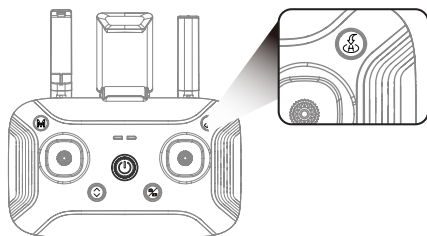
The aircraft in altitude hold mode requires pilots with experienced operation skills. However, certain environmental factors, such as airflow, might affect the flight, resulting in drifting or hovering failure.

Please familiarize with the position hold mode and learn how to handle it before using altitude hold.

**Note:** As for the return to home point as precise as possible, please fly the aircraft in open flat terrain (no tall buildings in 50 meters of radius, flat terrain in 10 meters of radius) with the GPS working well. Thus the return to home function will be able to activate.

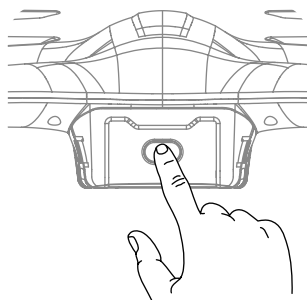
## **6. Return To Home**

In GPS positioning mode, you can press the “One Key Return” button to return the aircraft. Do not control any functions during the process of return or ascent. When the aircraft is landing, you can toggle the joystick as to control it to land on your desired location. When the aircraft is returning to home point, long press the “Return” button to exit auto return mode.

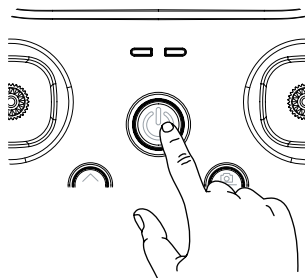


**Note:** As for the return to home point as precise as possible, please ensure the GPS positioning function has been turned on to record the aircraft's position before its takeoff and choose an area with no obstacles. With the GPS positioning mode turned on, it will automatically enter auto return to home mode if the remote controller loses control.

Once the auto return to home mode is enabled, if the aircraft flies below 30 meters of altitude, the aircraft will automatically ascend to 30 meters before returning to home point. However, if the aircraft flies over 30 meters of altitude, the aircraft will return to home point at the current altitude. Please do not control other functions during the process of return. Please ensure there are no obstacles in way of return in case of any potential accidents.



Turn off aircraft: short press, then long press over 3 seconds



Turn off RC

When the aircraft lands, please turn off the aircraft and the remote control power after the propeller stops rotating (long press power button over 2 seconds)

**Caution:** Please stay away from aircraft until propellers stop rotating completely.

## 7. Remove the battery and store it separately

- (1) When finishing flight, please remove the batteries from the aircraft and remote controller and store them separately.
- (2) Keep batteries out of the reach of children. Keep the battery dry. DO NOT leave the battery near heat sources such as a furnace or heater. The ideal storage temperature is 22 °C -28 °C .
- (3) If a battery is found to be damaged, please discharge the battery and dispose them properly according to the local regulations and laws.

## 8. Pair aircraft and RC

Factory default settings is that remote controller and aircraft already paired. If remote controller has been replaced or other reasons that will cause the aircraft and the remote controller not paired, please complete the pair as follows.

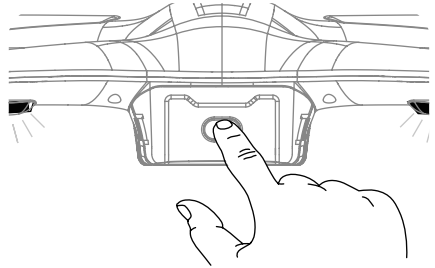
- (1) Turn on aircraft and RC;
- (2) Open mobile phone,enter setting-WLAN,check the wifi list,users can see two wifi named as below:Drone-xxxxxx,and Controller-xxxxxx;
- (3) Choose Drone-xxxxxx,then connect as left picture shown:
- (4) Enter APP interface,then click .... as right picture shown:
- (5) Choose pair as pictures shown:
- (6) Pop up the scan for device,click scan for device,scan Controller-xxxxxx,and connect as pictures shownExit APP,enter setting - WLAN on user phone,choose Controller-xxxxxx;if can connect successfully,which means RC and aircraft paired,users can use the RC to control aircraft

## IX. Flying by APP

### 1. Power on

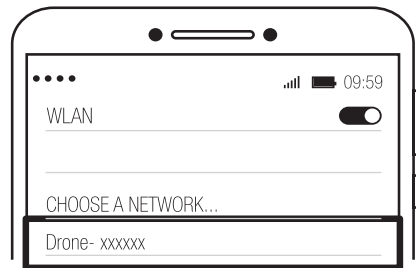
- (1) Put the aircraft on a fat surface
- (2) Turn on aircraft Long-Press power button 2s.

After power on the aircraft,ensure that aircraft is positioned on flat ground more than 30seconds to make the aircraft complete self-inspection,when indicator convert flashing blue to flashing green or always green,which means paired with RC complete



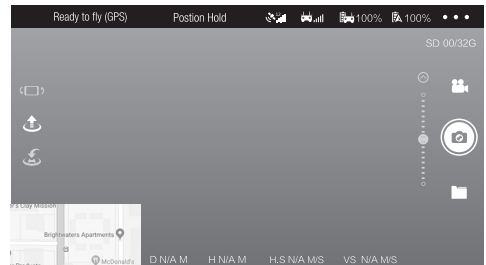
### 2. Connect with the APP

- (1) In the mobile phone with APP installed,click WLAN setting,choose"Drone-xxxxxx",and connected



**Notice:**Only support 5G Hz WiFi mobile phone can connect the aircraft.

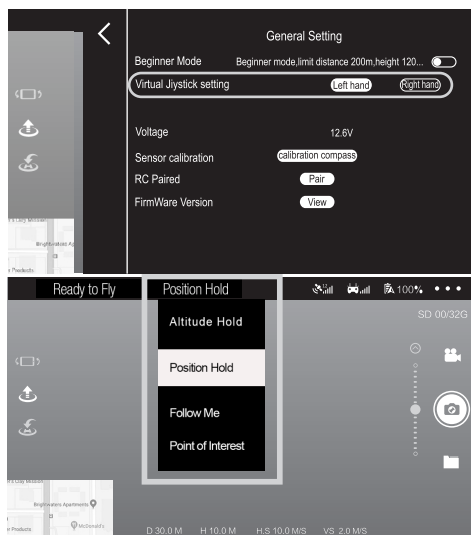
- (2) Please click  to learn how to operate aircraft,click"start flying"to enter flight interface,as picture shown:



### 3. Initiate aircraft

#### 1) Switch to mode 2 or mode 1

The default setting on app is mode 2, user can switch on general setting



#### 2) Default flight mode:GPS mode

If the indicator of aircraft is green light or blue light always on, which means GPS is located successfully.

If the indicator of aircraft is green light or blue light flashing, which means GPS is located unsuccessfully.

Default flight mode on APP is always GPS mode.

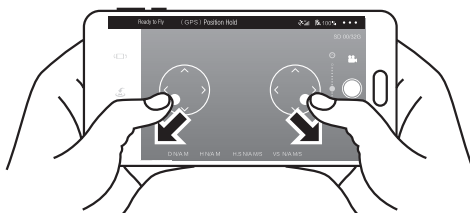
Users can take off aircraft by APP when flight start after the indicator of aircraft is the green always on (when the GPS signal is good).

*Notice: It is recommended that the first flight should use the default flight mode, which is GPS mode, users can choose other flight mode when familiar with GPS mode.*

*Please confirm Mode 2 or mode 1 first, then start to fly.*

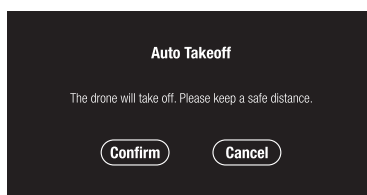
#### 3) Take off by APP (please stay away from the aircraft)

Take off manually: Click on the left and right blank of the screen, the virtual joystick will be popped, then slide the left and right virtual joystick as pictures shown, the aircraft can be unlocked, propeller start to rotate.



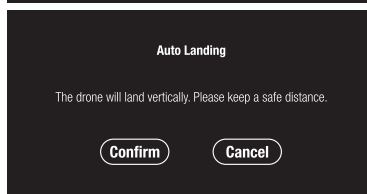
One key take off: Click  one key take off button, pop-up confirmation page.

Click "OK" and the aircraft will take off. Please pay attention to keep the safe distance.

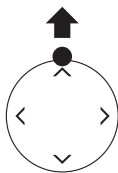


Click  one key landing button, pop-up confirmation page.

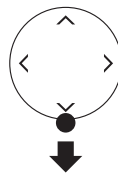
Click "OK" and the aircraft will Land. Please pay attention to keep the safe distance.



#### 4) After unlock the aircraft, it can push the left and right virtual joystick to fly the aircraft



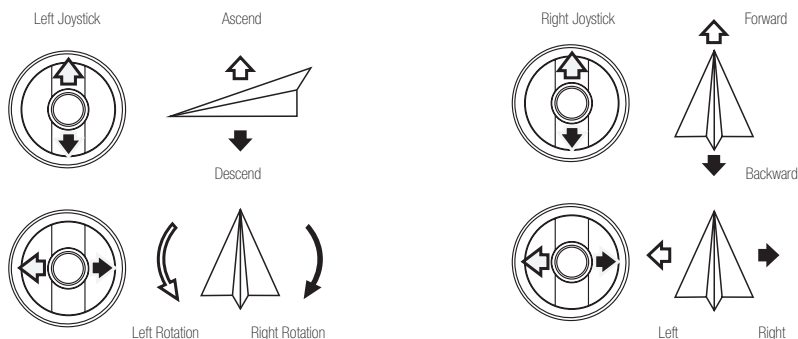
Take off:  
Slowly push the throttle up, the aircraft takes off



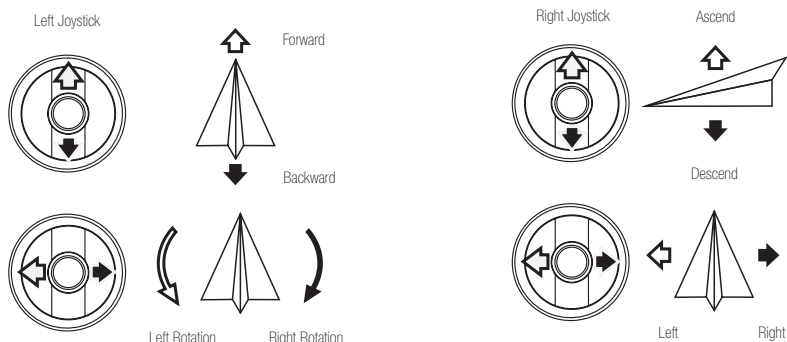
Landing:  
Slow down the throttle, when the aircraft hits the ground, keep the throttle Joystick in the lowest position until the propeller stops.

Please reference the below mode 2 or mode 1 during flight by APP

##### (1) Mode 2



##### (2) Mode 1



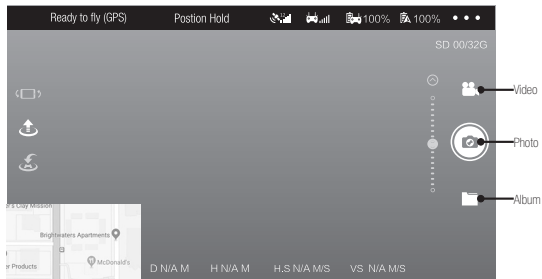
#### 5) G- Sensor

Click  to initiate G-sensor, which can control aircraft to go forward, backward, left, or right through shaking phone, the feature depends on mobile phone performance, please use this feature carefully.

**Warning:** Please keep the phone balance. The phone must support G-sensor.

4. Photo and video

During the flight, users can take photos of the current scenery by “Photo / Video ” on the APP. Click the “Photo” button to store a photo in the file.



Click on the "video" button ,the video icon will turn red, which means record video starts, Click” video” button again, The video icon turns white, which means record video stops. When record video stops, video will be stored in the file.

○ Aerial photography tips

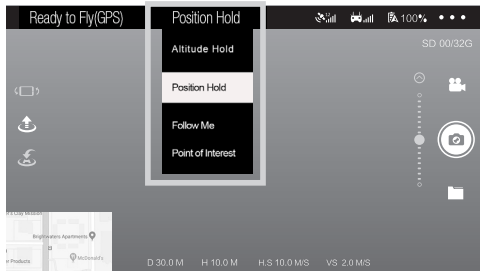
- 1) Check the condition of all parts before flight.
- (2). Take photos or vides when the drone is in position hold mode.
- (3). Shoot on sunny and breezy days.
- (4). Slightly toggle the joystick in mid-flight as to ensure a smooth flight.

*Note: In order to avoid possible damage or loss, please ensure that the camera is free to rotate. High temperature may cause damage to the camera and even cause injury.*

5. Flight mode specification

1) Position Hold Mode

Users can choose the position hold mode when there is good GPS signal (the aircraft's indicator light turns solid green). In this mode, the aircraft will automatically locate its own position and perform a stable flight.

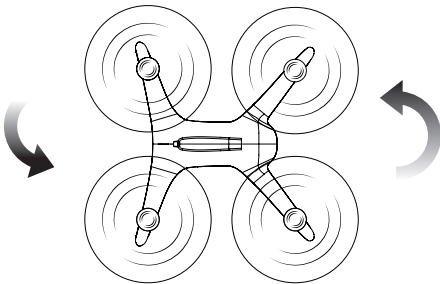


Click "Position Hold" as shown in the left picture, and a drop-down menu will pop up on the screen. Then select your desired flight mode.

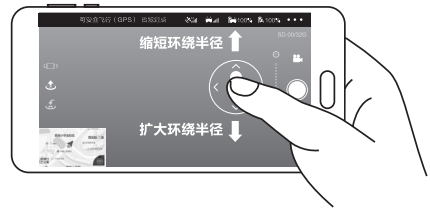


## 2) Orbit mode

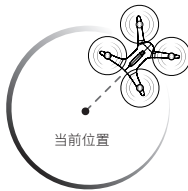
After entering Orbit mode, aircraft will rotate by itself at its current position. Maneuvering the aircraft forward and backward, can change the radius of the circle.



Click "ORBIT MODE", aircraft will rotate by itself at its current position



Control the right Joystick to enlarge or shorten the circle radius (Default is the mode 2)



Changing the radius of the flight is complete, it will fly around the center of the circle.

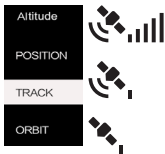
## 3) Altitude mode

Under this mode, the aircraft only has optical flow positioning, which requires experienced operation skills. If the optical flow positioning conditions are not satisfied (the front arm flashing), the positioning hover will be invalid, the motion dependence of the aircraft will occur manual control. Please fully grasp the control of GPS mode, then use the altitude mode.

## 4) Follow me (under "Safe GPS flight" status)

When aircraft fly under GPS mode, users can choose follow me, aircraft will follow the mobile device to fly.

- (1) Please pay attention on GPS signal status when follow me initiated

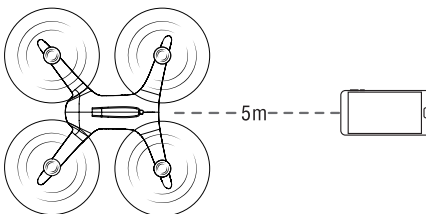


When the GPS signal on the APP is full, follow me can be used.

When the GPS signal on the APP is not totally full, follow me will not recommend. If need to use it, pay attention to aircraft condition and surrounding environment.

When the GPS signal on the APP is null, follow me can not be used.



- (2) How to use follow me



Aircraft will follow mobile phones, as well keep the default distance at 5m.

**Warning:** In order to ensure precise return location, please fly with good GPS signal, also at open field (no large buildings in 50 meters, and the square circle is 10 meters flat), RTH will work perfectly.

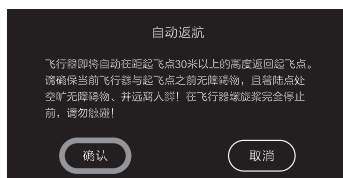
## 6. RTH

Click  to initiate RTH during flight if necessary, make sure to confirm the requirements, then click “OK” to start RTH, aircraft will take the take-off point as the terminal to conduct RTH. All the joysticks will not be controlled during the course of the return. During the descending process, the joystick can be manipulated to control the aircraft and change the landing position, if click the  again during return course, aircraft will stop return course. Users will regain control of aircraft.

click the  again during return course, aircraft will stop return course. Users will regain control of aircraft.



RTH button



Confirm



Forward/Backward

**Notice:** Only when GPS has been positioned (rear arm green light is always on) to take off, no shelter Near the take-off area, the accuracy of return position can be ensured. When aircraft under GPS mode, it will automatically initiate the RTH as follows:

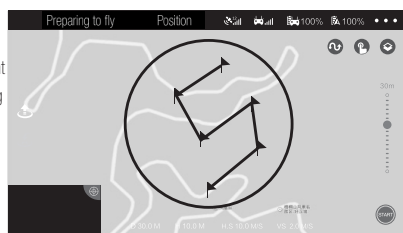
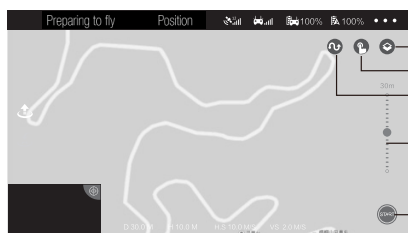
- 1 the aircraft lost contact with the RC
- 2 low battery capacity of aircraft

Initiate RTH mode, if the current flight height is less than 30meters, aircraft will automatically rise to 30meters to return, if the current flight height is higher than 30meters, aircraft will be returned directly. Inability to manipulate the aircraft during RTH mode, please ensure that there is no obstacle in the return route in case of accidents.




When the aircraft lands, please turn off the aircraft power after the propeller stops rotating (long press power button over 2seconds)


## 7 Way point flight

Click little map on the left corner at APP as shown, it will pop up map/Way point flight



Set course point

When aircraft fly under GPS mode, click  (Way point flight) or  (Route planning flight), then read the attentions carefully, click on the screen according to users needs in the current map, set course point, set the altitude of aircraft (default altitude is 30m), after setting up, Click  to initiate Way point flight or Route planning flight, aircraft will fly automatically by course points.

During way point flight or route planning flight, click  to exit, after reaching the last flight point, the aircraft will hover in its current position.



**Caution:** Please set course point or line in the circle (radius 100m), do not set the course point or line outside the red circle, when exit the way point flight or route planning flight, aircraft will hover in its current position, users can re-set course point and continue to fly, when users initiate RTH or one key landing during way point flight or route planning flight, aircraft will exit the course, and perform RTH or one key landing immediately.

**Warning:** For safety and avoid property loss, please use way point flight or route planning flight carefully. when using way point flight or route planning flight, Please choose an open, accessible area and stay away from the crowd. carefully observe the current flight environment and set a safe flight altitude.

