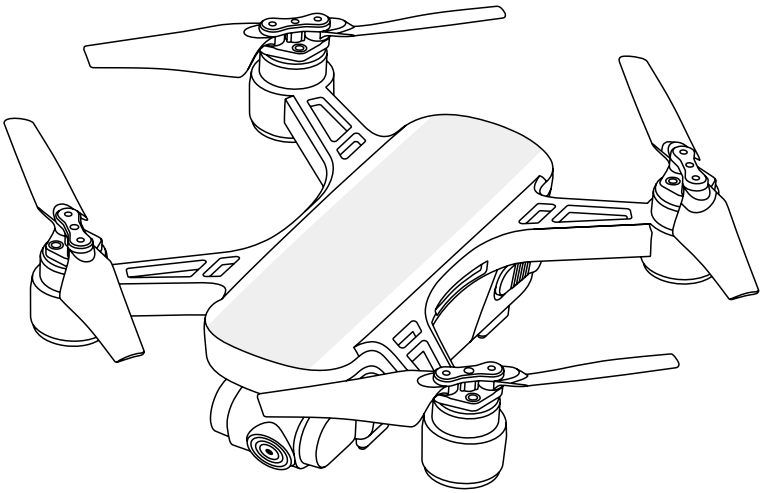
DF801 USER MANUAL



Google Play

APP Store

IMPORTANT

- *Before using the product, please carefully read this manual and strictly comply with the operating instructions.*
- *Do not attempt to disassemble, modify or repair the aircraft. If necessary, please contact your local retailer.*
- *For the electronic version of this manual, please navigate to the APP's main interface and click the "Help" on the upper right corner to download.*
- *All the contents of this manual are subject to change without prior notice.*

Content

I. Important Notice

1. Flight Safety Instructions

(1) This product is not a toy, not intended for children under 14 years.

(2) Please familiarize yourself with the relevant local laws and regulations. And keep away from any non-flight zones.

(3) Please keep the aircraft within visual line of sight. DO NOT fly over obstacles, otherwise the drone may lose control and have serious damages.

(4) Please keep the remote controller and the mobile device handy during the operation to avoid accidents.

(5) Please keep yourself and other objects away from the drone when it is in motion.

(6) Please turn off the aircraft and the remote controller immediately when the drone stops flying.

(7) Please strictly adhere to the safety instructions when using the lithium battery. Never leave the battery unattended while charging to avoid accidents.

(8) DO NOT fly the drone or use any type of remote controller within a radius of 500 meters of an airport. DO NOT use the remote controller when and where the radio restrictions may apply.

2. Flight Environment

(1) Choose a wide open space without obstacles. Do not operate near buildings, trees, high voltage cables, crowds of people or animals.

Choose a wide open space | With a strong GPS signal | Fly within line of sight | Fly below 400 feet (120 meters)

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

(3) Do not fly near tall buildings, high-voltage cables, communication base stations and Wi-Fi hotspots, which will severely affect the signal receiving of the aircraft, resulting in abnormal data and accidents.

(4) Do not contact the propeller in motion, otherwise it might cause serious injury. Safety is the priority for both you and your surrounding environment and people. Therefore, please navigate to the APP and download the disclaimer and read it through.

3. GPS Status and Flight Modes

The aircraft has built-in GPS system. Please enable the GPS to locate the position in autonomous flight. Follow the steps herein to enter GPS positioning mode:

(1) The remote controller is in P (position hold) Mode.

(2) The GPS DOP is at a proper rate for accurate positioning.

By then, the aircraft is able to hover steadily and fly autonomously.

If not two of the conditions are satisfied, the aircraft would automatically enter altitude hold mode. However, due to the interference of the wind force, the aircraft might drift while hovering and the functions are not able to use at all.

Notes:Autonomous flight refers to flights that are controlled by internal programming that tells where it is positioned and where to fly, rather than a person sending radio signals. It includes auto return to home, one key return, waypoint flying and point of interest, etc.

4. Return To Home

After the aircraft has entered the GPS positioning mode, the GPS positioning system would automatically record its takeoff point as home point. In the following circumstances, the aircraft will automatically initiate return to home (RTH).

Notice:When the aircraft initiates RTH, you can only control the functions when it has returned and started to land.

(1) If the battery level is low, the aircraft would automatically initiate RTH.

(2) If the aircraft is disconnected with the remote controller, the aircraft would automatically initiate RTH.

In RTH mode, if the aircraft flies below 30 meters, it will ascend to the altitude of 30 meters before returning to home point and landing. If it flies above 30 meter, it will directly return to home point and then land on the ground.

During the flight, ensure that the aircraft flies within line of sight. Do not fly over obstacles (such as buildings and trees, etc.), which might block signals and lead to the disconnection between the aircraft and the remote controller. In this situation, the drone would automatically trigger the RTH mode. This may cause the aircraft to hit an obstacle in the course of RTH and cause accidents.

5. Low Battery Return To Home

(1) Low battery RTH

If the battery level is low, the status indicator light of the aircraft would turn slowly blinking red and the APP would prompt pop-up message, indicating the aircraft has entered RTH.

Once the low battery RTH mode is enabled, you can only change the landing site but not turn it off.

(2) Critical low battery warning

When the battery level is critically low, the status indicator light of the aircraft would turn quickly blinking red and the aircraft would immediately land on the ground.

6. Control Loss Return To Home

(1) Control loss RTH with GPS positioning

In GPS positioning mode, if the signal of the remote controller has been interrupted, the aircraft would hover at the current altitude for 5 seconds. If the signal has not been reconnected, the aircraft would automatically enter RTH mode.

(2) Control loss RTH without GPS positioning

If the aircraft fails to locate its position and the signal of the remote controller has been interrupted for 2 seconds, the aircraft would automatically land.

7. Compass Calibration

Notes:If you have changed to a new flying site, please re-calibrate the compass before your first flight. In mid-flight, if the aircraft's indicator light "blinks blue and green alternately", indicating the compass is

abnormal, please re-calibrate the compass.

Please keep away from the environment with magnetic interference, otherwise it may cause calibration failure.

The built-in compass helps keep the aircraft oriented. Please ensure it works well every time before flight.

◯ **Re-calibrate the aircraft compass if one of the following scenarios happens:**

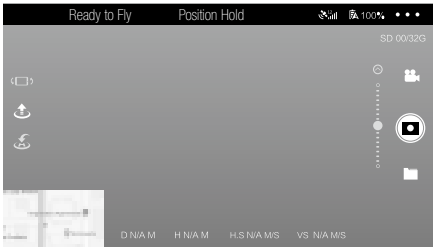
(1) Fly in a new environment

(2) The status indicator light of the aircraft indicates the abnormal situation of the compass

(3) The APP and the aircraft prompt you to calibrate the compass

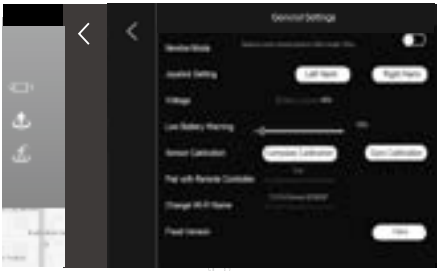
(4) The aircraft drifts in mid-flight

◯ **Calibrate the compass via the APP**



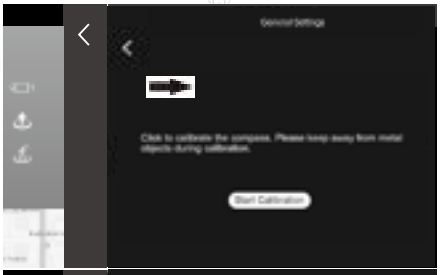
(1) Enter the calibration mode

When the aircraft connects to the APP, click the "···" icon in the upper right corner of the APP interface to enter "General Settings".

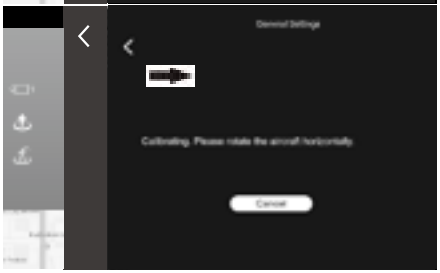


Then click "Compass Calibration".

When the APP prompts pop-up message, check your surrounding environment and stay away from metal objects. Then click "Calibration".



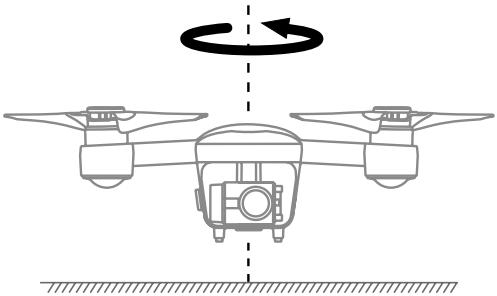
Meanwhile, the status indicator light of the aircraft blinks blue and red alternately, indicating that it has been ready for calibration.



(2) Compass Calibration

Step 1:Horizontal Calibration

When the APP prompts you to rotate the aircraft horizontally, put the aircraft in your hand horizontally and then rotate it horizontally until the status indicator light blinks red and green alternately, indicating the horizontal calibration has been successful.



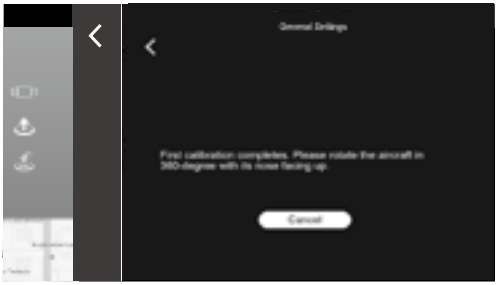
Step 2:Vertical Calibration

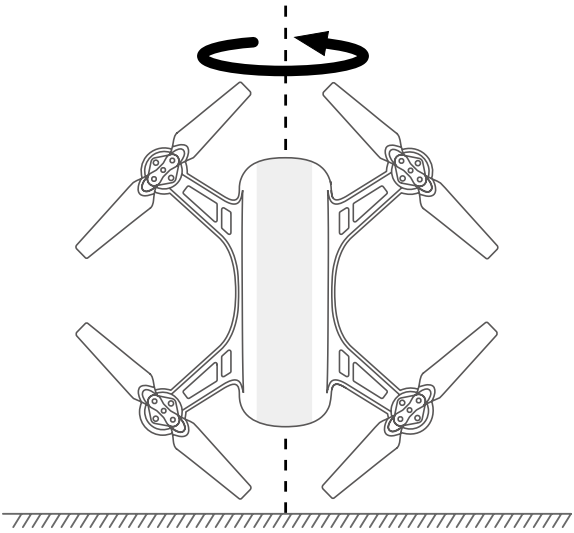
When the APP prompts you to rotate the aircraft with its nose facing up, hold the aircraft in your hand, put it on the ground and rotate it horizontally.

The compass has been calibrated successfully when the status indicator light turns solid green or flashing green.

When the APP prompts you "calibration is successful", click "complete" to complete calibration.

If the status indicator light turns red for 6 seconds, indicating the compass calibration fails, please change your position and re-calibrate it.





II. Battery Usage

Warning:Please read through this manual and familiarize yourself with the functions of the product before using it. Improper operation may cause serious injury, damage to product or property loss.

This product requires sophisticated pilots with experienced operation and basic common sense. Please be aware of the safety of the flight. Improper operation may cause serious injury, damage to product or property loss.

This product is not intended for children. Do not use components that are not provided or recommended by us. Please adhere to the instructions for product installation and usage. Do not use other accessories or parts that are not recommended. This user manual includes safety, operation and maintenance instructions.

Please read the instructions and warning tips carefully before assembling, setting up and using this product. Improper usage, charging or battery storage may cause fire, property loss or personal injury. Please adhere to the following instructions for battery usage.

1. Usage

(1) Do not immerse the battery with the liquid such as water. Do not use the battery in humid environment. If the battery comes into contact with water, chemical decomposition may occur, resulting in the battery catching on fire and even leading to explosion.

(2) Do not use other batteries but the specific battery. Other batteries may cause damage to the product or flight failure and even accidents. For replacement, please contact the local retailer for additional information.

(3) Do not use batteries if they are dilatant or leaking, or the package damaged. If any of such battery problems occur, please contact the retailer or distributor.

(4) Do not strike the battery against hard surface. Do not put objects over the battery or the charger.

(5) The optimal temperature for battery usage should be between 0℃ to 40℃ . Excessive temperature (higher than 50℃) may result the battery catching on fire and even lead to explosion. Low temperature (lower than 0℃) may reduce the battery life.

(6) Do not use the battery in an environment subject to strong static electricity or magnetic fields, otherwise the battery protection board may be damaged, resulting in flight failure.

(7) Do not attempt to take a battery apart or stab a battery. It will catch on fire or explode.

(8) The battery contains organic electrolyte. If electrolyte leakage occurs, please wash your eyes with clean water for at least 15 minutes and seek medical care immediately.

(9) Do not use the battery that falls or collapses.

(10) If the battery falls into the water with the aircraft, please immediately take out the battery and put it in a safe and open area. Never use the battery again, and dispose the battery properly as described in the Disposal section below. If the battery catches fire, use fire extinguisher to cool the battery. Other objects are recommended in the following priority order: sands, blanket, dry power and carbon dioxide extinguisher.

(11) Do not put the battery in a microwave oven or a pressure cooker.

(12) Do not put the battery cell near the surface of the electrical conductor.

(13) Do not contact the two terminals to conductive wire or any metal objects to avoid battery short-circuit.

(14) If there are contaminants on the charging interface, please clean them with dry cloth, otherwise it may result in poor contact and lead to power loss or charging failure.

2. Charging

(1) Please charge the battery using the specific charger. Using other chargers may cause damage to the product and even lead to accidents. We shall not bear the responsibility for consequences resulting from improper charging.

(2) Do not charge the battery next to flammable or on the surface of electro-conductive objects (places like cement ground is suggestive). When charging, please observe the battery at all times.

(3) Do not charge the battery immediately when the battery is not cooled down yet. The optimal charging temperature should be between 5℃ to 40℃ , which helps extend battery lifespan.

(4) Please disconnect the charger and the battery once the charging completes. Regularly inspect and maintain the charger. Do not use the charger if is outworn.

3. Storage and Transport

(1) Keep batteries out of the reach of children. If the child has swallowed a battery, please seek medical care as soon as possible.

(2) Do not store the battery next to heat sources, such as direct sunlight, carriage, fire or hot oven. The optimal storage temperature should be between 22℃ to 28℃ .

(3) Storing batteries in dry environment. Do not immerse the battery with the liquid.

(4) Do not strike, step on or stab a battery. Do not throw or short circuit a battery.

(5) Do not store or transport the battery with glasses, watches, metal necklaces, hairpins or any other metal objects.

(6) Do not transport the outworn batteries. If needed, discharge the batteries to 30%.

(7) Please discharge the battery to 40% to 65% if not in use for over 10 days as to extend the battery lifespan.

(8) Do not completely discharge the battery before storing it for long period of time, to avoid cell damage.

4. Disposal

(1) Please completely discharge the battery and put the unusable batteries into the designated container. The battery contains electronic elements. Do not deal with the related equipment as daily rubbish.

(2) If the battery has become unusable after discharging, please dispose it properly according to the local garbage disposal method.

5. Maintenance

(1) Do not use the charger when the temperature is too high or too low.

(2) Do not store the battery where the temperature is lower than 60℃ .

(3) Do not over discharge the battery to avoid damage to the battery cell.

(4) The battery's performance is likely to be affected if not in use for a long time.

(5) Please discharge and recharge the battery every three months.

6. Notice

(1) If you carry the batteries in your carry-on luggage in the airplane, please discharge the battery to 5%.

(2) Store the battery in a well-ventilated place.

III. Disclaimer

This product is not a toy, not intended for children under 14 years. Please put safety as a priority when using this product. Keep this product out of the reach of children.

If you are a novice pilot, please have an experienced pilot with you when you fly the aircraft.

Please read this manual carefully. Be sure you understand your legitimate rights, responsibility and the safety instructions. Improper operation may cause property loss, accidents and personal injury. You agree you have read, understood and accepted all the terms of this agreement. Keep in mind that your use of this product will be deemed acceptance of this agreement. You further declare that you shall be responsible for all the consequences arising out of or from unintended, malafide or misuses of this product or use of this product for any purpose other than the purpose stated by you. You have agreed to use this product for legitimate purposes and agree with this clause and any relevant policies or guidelines that we may formulate.

IV. Technical Support

All products have been strictly checked and tested before coming into the market. Any new information or technology, we will update on the official website.

Users can contact the local retailer to seek for technical support or purchase additional spare parts.

V. Newbie Mode

For novice pilot, please turn on the newbie mode. Once the newbie mode is enabled, the aircraft will locate its own position before ready to take off. If the aircraft cannot be controlled after takeoff, you can turn on the RTH mode to control the aircraft to return back automatically.

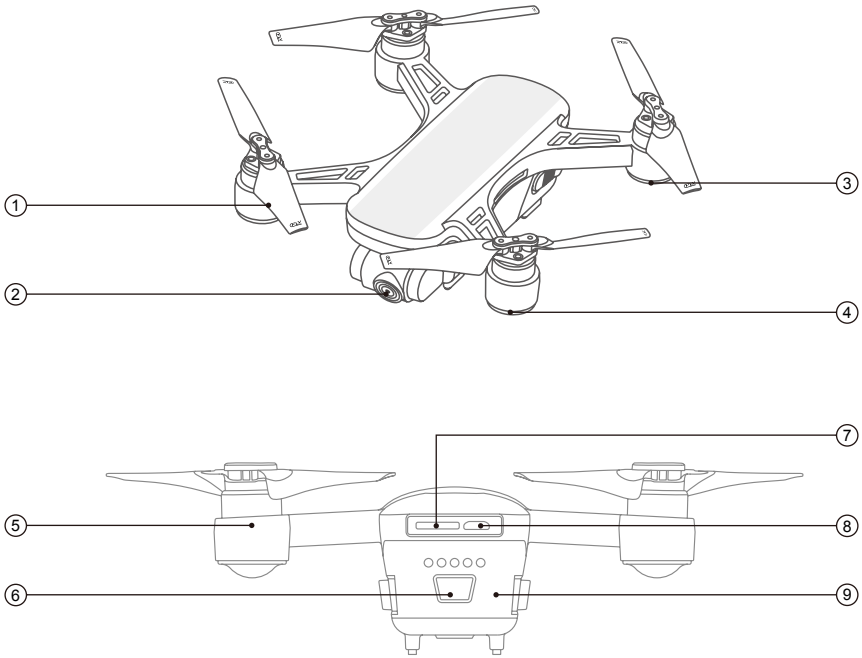
VI. Know DF801

DF801 is a flying camera with HD camera and smart flight mode. It features with multiple functions such as one key takeoff/ landing, auto return to home, flight planning, follow me, point of interest, etc. Equipped with the two-axis gimbal stabilizer, it allows you to have a unique perspective and compose great photos, offering a wonderful photographing experience.

DF801 has up to 15 minutes of flight time.

1. Aircraft

1) About the aircraft



① Propeller
② Gimbal Camera
③ Flight Status Indicator Light
④ Optical Positioning Status Indicator Light
⑤ Motor
⑥ Power Switch
⑦ TF Slot
⑧ Micro USB Interface
⑨ Aircraft Battery

2) Flight status indicator light

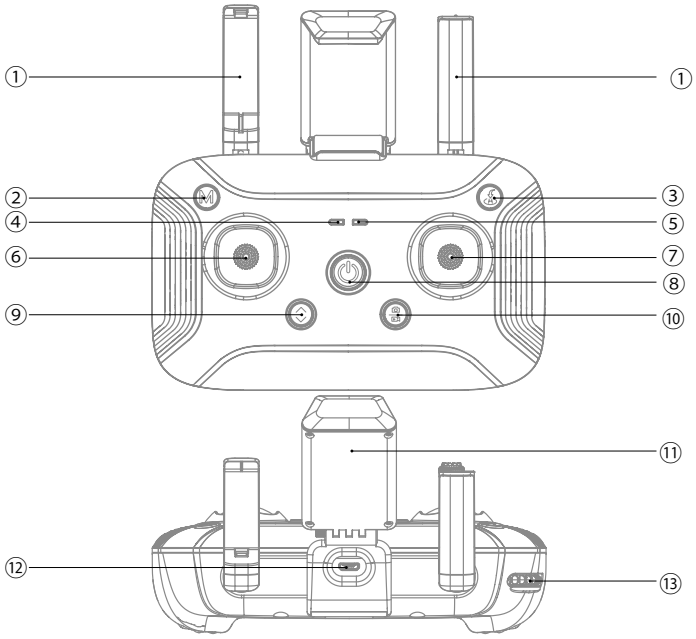
With the indicator light, the flight status of the aircraft can be checked, listed as below:

◯ **Flight Status Indicator Light (Rear Light)**

Indicator Light		Status Indication
Ⓑ ━━━━━━━━	Solid blue on start-up	Self-checking.
Ⓖ ━━━━━━━━	Solid green	Remote controller connected and GPS positioned.
Ⓖ - - - - - - - -	Blinking green	Remote controller connected and GPS not positioned yet.
Ⓑ Ⓡ - - - - - - -	Blinking blue and red alternately	Horizontal calibration of the compass.
Ⓡ Ⓖ - - - - - - -	Blinking red and green alternately	Vertical calibration of the compass.
Ⓑ - - - - - - - -	Blinking blue	No signal of the remote controller.
Ⓑ ━━━━━━━━	Solid blue	Remote controller disconnected and GPS positioned.
Ⓡ ━━━━━━━━	Solid red	Error.
Ⓡ -- -- -- --	Double blinking red	Critical low battery warning.
Ⓡ - - - - - - - -	Blinking red	Low battery warning.
Ⓑ Ⓖ - - - - - - -	Blinking blue and green alternately	Compass data error.

2. About the Remote Controller

1) Console



① Antenna ② Flight Mode Switch ③ Return ④ Mode Indicator Light
⑤ Power Indicator Light ⑥ Left Joystick ⑦ Right Joystick ⑧ Power Switch

⑨ One Key Takeoff/Landing ⑩ Photo/Video ⑪ Phone Holder ⑫ USB Charging Interface
⑬ Pitch Angle Adjustment

2) Power indicator light

○ **Charging**

Indicator Light		Status Indication
Ⓖ ▬▬▬▬▬	Blinking green	Charging
Ⓖ ▬▬▬▬▬	Solid green	Charging completed

○ **In operation**

Indicator Light		Sound	Status Indication
Ⓖ ▬▬▬▬▬	Solid green	Null	Remote controller working normally.
Ⓡ - - - - - -	Slow blinking red	Beeps B-B-B	Low battery warning. Remote controller off.
Ⓡ ▬▬▬▬▬	Quick blinking red	Beeps B-B-B	Critical low battery warning.
Ⓡ ▬▬▬▬▬	Solid red	Null	Error.
Ⓖ -- -- -- --	Solid green	Beeps BB-BB-BB	Remote controller off if not in use for 5 minutes.

3) Mode status indicator light

Indicator Light		Sound	Status Indication
Ⓖ ▬▬▬▬▬	Solid green	No	Position Hold Mode
Ⓡ ▬▬▬▬▬	Solid red	Null	Altitude Hold Mode

3. Download the APP

Please connect the aircraft with the APP before using it. The aircraft can be controlled via the APP, allowing for a full control of different directions and other functions, such as taking photos or videos and parameter settings.

Scan the following QR code to download the APP.

Google Play

APP Store

Notes:For more details on how to control the aircraft via the APP, please refer to "Control via the APP" in this manual. When using the APP, make sure your mobile phone supports 5G Wi-Fi, otherwise the APP is unable to connect with the aircraft.

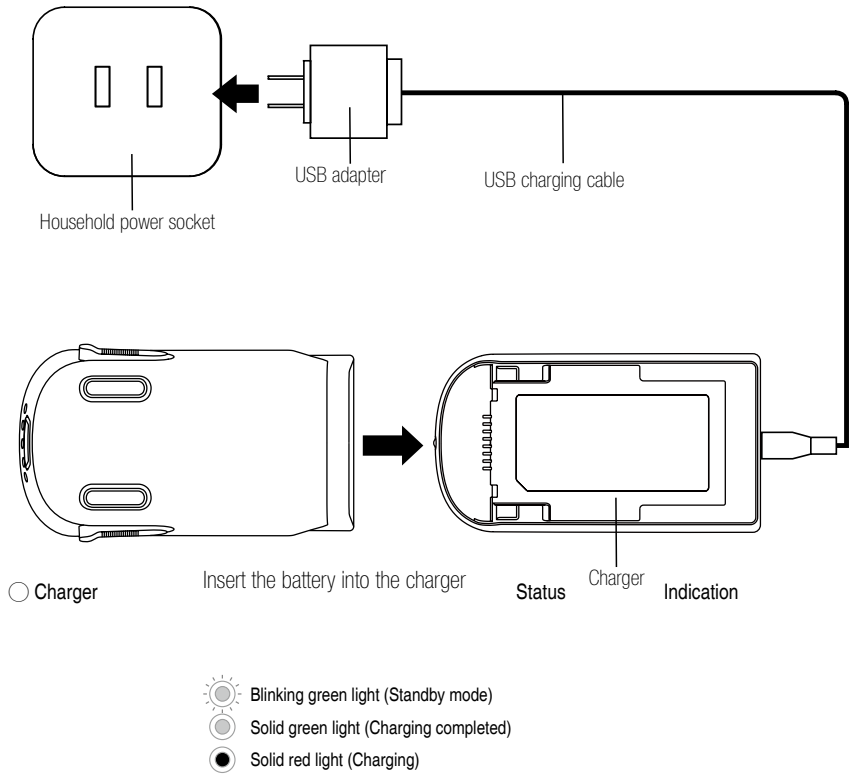
VII. Pre-flight Preparation

1. Battery Charging for the Aircraft (Comply with the following steps)

(1) Connect the USB charging cable with the USB adapter and the flight battery charger.

(2) Connect one end of the power cord to the charger and plug the other end into the socket.

(3) Insert the aircraft battery into the charger with the battery line well connected.



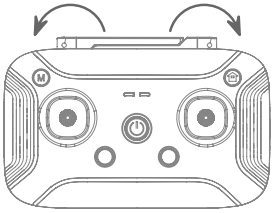
Warning:Please use the specific flight battery and charger to avoid injuries and property loss.

Please charge the battery in a well-ventilated environment and keep away from heat sources.

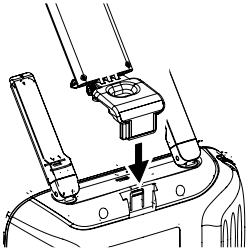
Do not charge the battery next to flammable or on the surface of electro-conductive objects (Places like cement ground is suggestive).
When charging, please observe the battery at all times.

2. Remote Controller Preparation (Skip this step if you are using the APP)

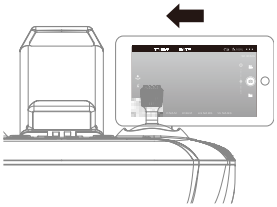
1) Get the remote controller ready before flight



a.Stretch out the antenna.



b.Insert the phone holder into the slot on the back of the remote controller.

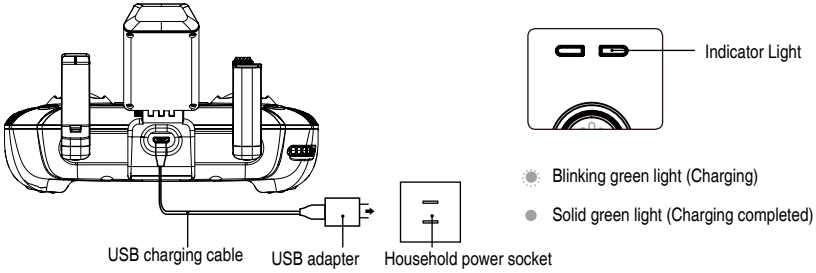


c.Mount the phone to the phone holder.

d.Adjust the phone and the antenna.

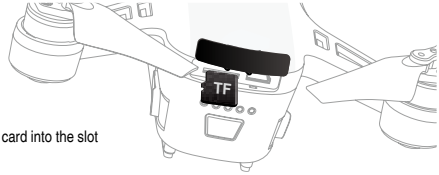
2) Battery charging for remote controller

Long press the power switch for 2 seconds to power on the remote controller. The indicator light turns solid green when the battery level is sufficient and turns blinking green when the battery level is low. To charge the battery, please comply with the following steps:



Warning:Disconnect the charging cable before using the remote controller.

3. Insert the TF Card



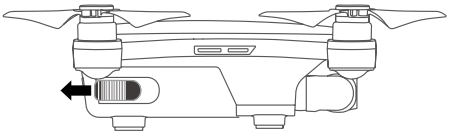
Insert the TF card into the slot

Attention: Do not insert or remove the TF card when the aircraft on to avoid data loss.

4. Battery Installation

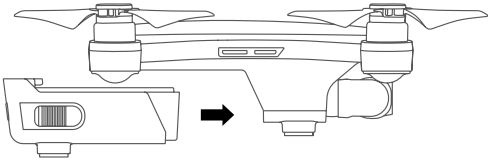
1) Install

Push the battery into the battery compartment as shown in the below picture.



2) Remove

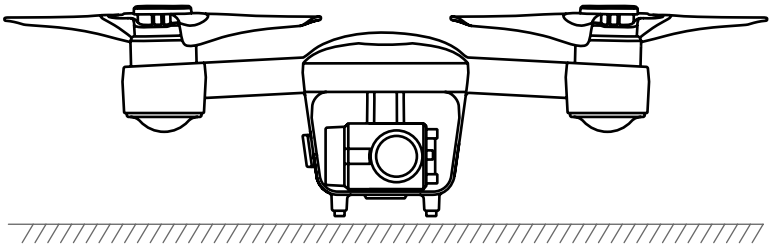
Unlock the battery buckle to take the battery out of the compartment.



VIII.Control via the Remote Controller

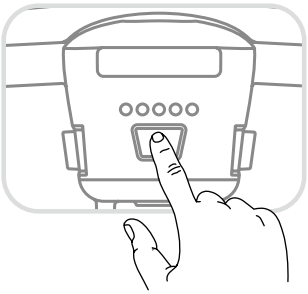
1. Power on the Aircraft

1) Put the aircraft on a flat level surface.



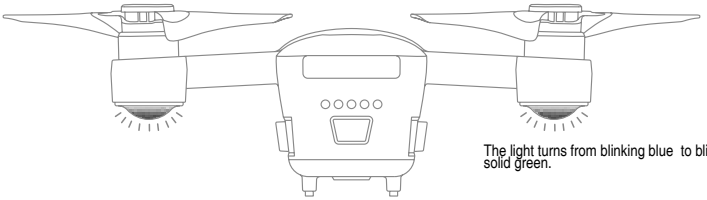
2) Power on the aircraft.

Long press the power switch for 2 seconds to switch on the aircraft.



3) Self-check and pairing

Power on the aircraft and put it on a flat level surface for 30 seconds for self-checking. When the aircraft's indicator light turns from blinking or solid blue to blinking or solid green, the aircraft has successfully paired with the remote controller.



2. Connect with the APP

1) GPS signal status with the aircraft connected with the APP

Connect the aircraft with the APP. When the indicator light of the aircraft turns solid green, indicating strong GPS signal and the position located, switch the flight mode to GPS mode to get ready for takeoff.

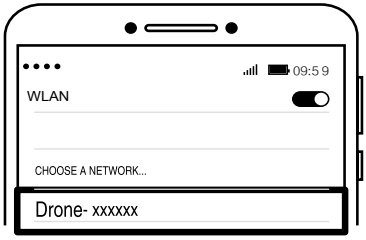
When the indicator light of the aircraft turns blinking green, indicating weak GPS signal or even no signal, manually choose Mode A (Manual Mode) to control the aircraft (It requires experienced skills for operation and may not be suitable for novice pilots).

Notes: Set the drone up and get ready to take off after the aircraft's indicator light turns solid green (indicating good GPS signal).

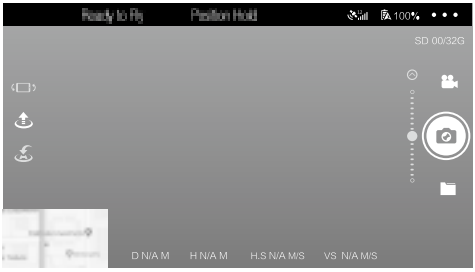
Please choose a wide open space for your flight. Do not fly over tall steel structures or metal materials, which may interrupt the GPS signal.

2) Connect with the APP

Open the APP, enter the WLAN settings, click "Drone-XXXXXX" to connect.



Open the APP and enter the main interface as shown in the below left picture. Click "Start Flying" to enter the flight control interface as shown in the below right picture.



Notes:The aircraft can only connect to 5G Wi-Fi enabled mobile phone.

Use the APP to monitor the real-time image and video footages and the flight status of the aircraft.

It is able to use both of the remote controller and the APP to control the aircraft. However, some functions are

not supported on the APP when the controller is being used, such as taking photos or videos, follow me mode, point of interest mode or waypoint flying mode. The APP can only be used when the remote controller turns off. For more details on how to control the aircraft via the APP, please refer to "Control via the APP" in this manual.

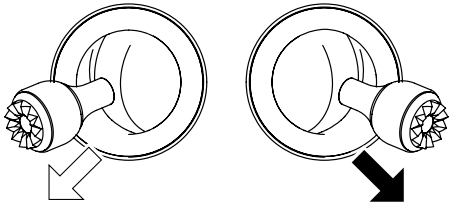
3. Operating the Aircraft

1) Take off

◯ **Method 1: Manually control it to take off**

When the aircraft's light turns from blue to green (as shown in the right picture), toggle the left and right joysticks outward for at least 3 seconds (as shown in the picture) as to get the propellers started to rotate.

Slowly toggle the throttle joystick upward to control the aircraft to take off quickly, and then toggle again to make it ascend slowly.



◯ **Method 2: Press "One Key Takeoff/ Landing" to control it to take off**

Long press the "One Key Takeoff/ Landing" button for 2 to 3 seconds. When the remote controller beeps continuously, the aircraft will automatically take off and ascend to the altitude of 1.2 meters and hover.

2) Land

Do not land near crowds of people or obstacles. Choose a wide open space as the landing site and control the drone to hover over the landing site before proceeding to make it land.

◯ **Method 1: Manually control it to land**

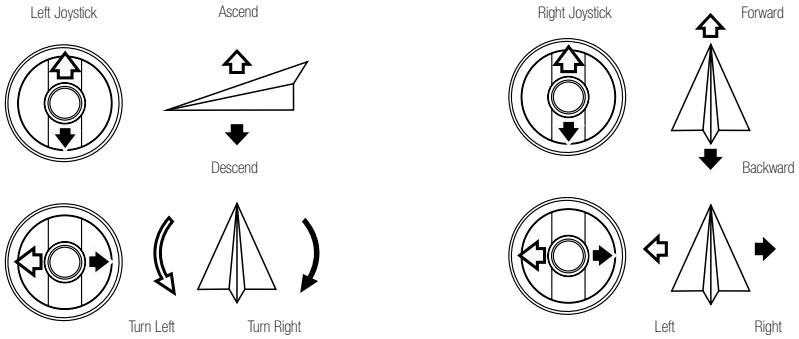
Slowly toggle the throttle joystick to control the aircraft to land. When the aircraft lands on the ground, continue to toggle the joystick towards the lowest position until the propellers stop rotating.

◯ **Method 2:Press "One Key Takeoff/ Landing" to control it to land**

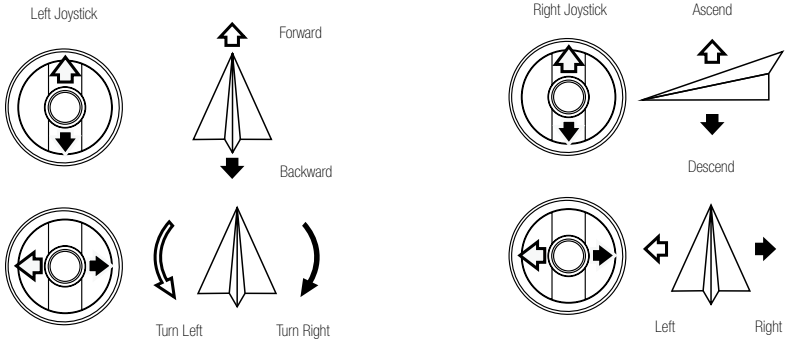
Long press the "One Key Takeoff/ Landing" button for 2 to 3 seconds. When the remote controller beeps continuously, the aircraft will land vertically.

3) Joystick control

(1) Mode 2 (Left joystick is the throttle joystick)



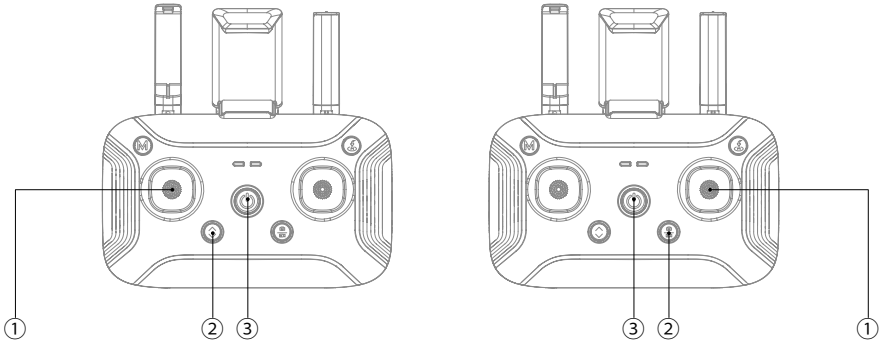
(2) Mode 1 (Right joystick is the throttle joystick)



4) Switch Between Mode 1 and Mode 2

(1) Switch to Mode 2

Toggle the left joystick ① to the lowest position and press the "One Key Takeoff/ Landing" button ② at the same time. Then turn on the remote controller ③ . Release the joystick ① and the button ② to enter Mode 2.



(2) Switch to Mode 1

Toggle the right joystick ① to the lowest position and press the "Photo/ Video" button ② at the same time. Then turn on the remote controller ③ . Release the joystick ① and the button ② to enter Mode 1.

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, press the "Photo/ Video" button to take photos or videos.

Short press the "Photo/ Video" button. And the remote controller beeps, indicating that you have successfully taken a photo.

Long press the "Photo/ Video" button. And the remote controllers beeps B-B with the icon on the APP changing from white to red, indicating the camera has been ready for video shooting. Long press the button again. And the remote controller beeps B-B with the icon on the APP changing 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.

Notes: Please ensure that the camera is free to rotate to avoid injuries and property loss. High temperature may cause damage to the camera.

5. Flight Mode

1) Position Hold Mode

◯ **How to enter position hold mode**

a. The drone will automatically enter position hold mode after start-up.

b. If the drone is in altitude hold mode and the GPS positioning system is working well, long press the "Flight Mode Switch" button to switch to position hold mode.

◯ **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 locate its own position and hover steadily. Please choose a wide open space in the outdoor field, and wait until the GPS has been turned on before flying it.

2) Altitude Hold Mode

◯ **How to enter altitude hold mode**

If the aircraft is in position hold mode, long press the "Flight Mode Switch" button to switch to altitude hold mode.

◯ **Status of the aircraft and the remote controller**

In this mode, the left indicator light on the controller turns flashing green.

◯ **Notice**

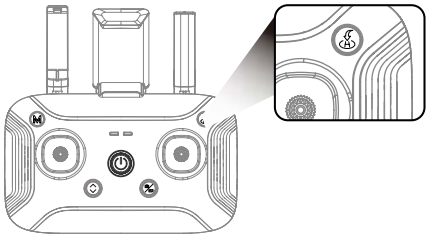
The aircraft is more responsive and agile in altitude hold mode, which requires pilots with experienced operation skills. However, certain environmental factors, such as airflow, might affect the flight, resulting in drifting or hovering failure.

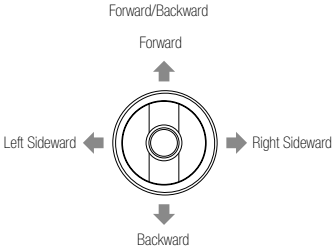
Please familiarize yourself with the position hold mode first and learn how to handle altitude hold mode before using it.

Notes: 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 to control it to land on your desired location. When the aircraft is returning to home point, long press the "One Key Return" button to exit auto return mode.

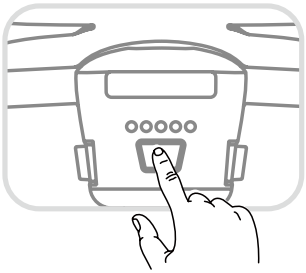




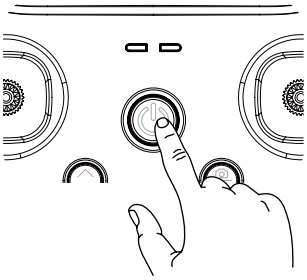
Notes: As for the return to home point as precise as possible, please ensure the GPS positioning function has been turned on (the aircraft's rear light turns solid green) to record the aircraft' s position and choose an area away from obstacles before its takeoff.

With the GPS positioning mode turned on, it will automatically enter auto return to home mode if the remote controller loses control.

With the auto return to home mode 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. Do not control other functions during the process of return. And ensure there are no obstacles in way of return to avoid accidents.



Power off the aircraft
Long press the power switch for at least 3 seconds



Power off the remote controller

After the aircraft lands and the propellers stop rotating, long press the power switch for at least 2 seconds to turn off the aircraft and the remote controller.

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

7. Battery Storage

(1) After the flight completes, remove the batteries from the aircraft and the remote controller and store them separately.

(2) Keep batteries out of the reach of children. Storing batteries in a dry environment. DO NOT leave the battery near heat sources. The optimal storage temperature should be between 22℃ to 28℃ .

(3) If a battery is found damaged, please discharge the battery and dispose it properly according to the local regulations and laws.

8. Pair the Aircraft with the Remote Controller

The aircraft has already paired with the remote controller by default. If the remote controller has been replaced, please pair again complying with the following steps:

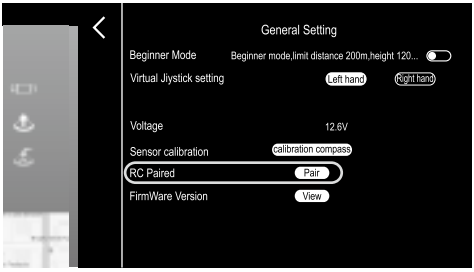
1) Switch on the drone and the remote controller.

2) Unlock your mobile phone, enter the menu "Settings-WLAN" to view the Wi-Fi network list, among which you can see "Drone-xxxxxx" (xxxxxx consists of characters and numbers) of the drone and "Controller-xxxxxx" of the remote controller (xxxxxx consists of characters and numbers). Please take down the serial number of the remote controller for further reference.

3) Click the Wi-Fi network of the drone to connect.

4) Enter the APP interface and click "…" in the top right corner to enter the menu.

5) Find "RC Paired" and click "Pair".



6) A dialogue box will pop up. Type in the serial number of the remoter controller in the box and click "Pair" to confirm.

7) Navigate your mobile phone to "Settings-WLAN" again to check the serial numbers of the drone and the remote controller. If the two serial numbers are correct, the pairing will be successful, with the drone's rear lights turning flashing green or solid green.

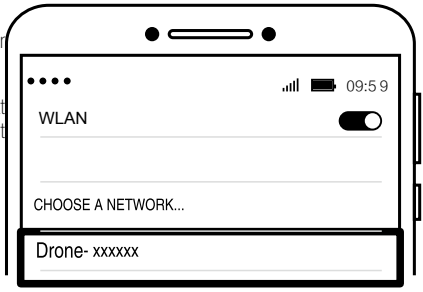
IX. Control via the APP

1. Power on the Aircraft

(1) Insert the battery into the aircraft.

(2) Put the aircraft on a flat level surface and long press the power switch for at least 2 seconds to power on the aircraft.

Power on the aircraft and put the aircraft on flat level surface for at least 30 seconds for self-checking. When the aircraft's indicator light turns flashing blue, the aircraft has completed self-checking.



2. Connect with the APP

(1) Open the APP,enter the WLAN settings, click "Drone-XXXXXX" to connect.

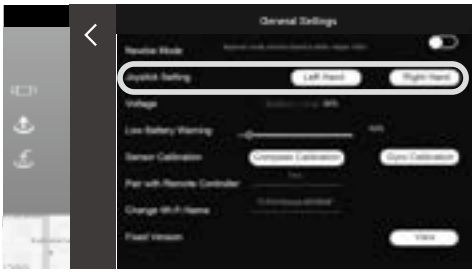
Notes: The aircraft can only connect to 5G Wi-Fi enabled mobile phone.

(2) Open the APP, click ⓘ to learn how to operate the aircraft. Click "Start Flying" to enter flight interface as shown in below right picture.

3. Fly the Aircraft

1) Select control mode

The default setting on the APP is Mode 2. . Enter the "General Settings" on the APP to switch the control mode.



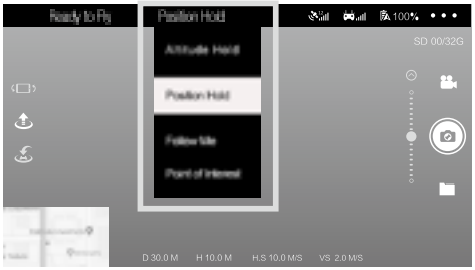
2) Position hold mode by default

The aircraft’s indicator light turns solid green or blue, indicating good GPS signal and the aircraft already located.

The aircraft’s indicator light turns flashing green or blue, indicating the aircraft not located yet.

The flight mode on the APP is position hold mode by default.

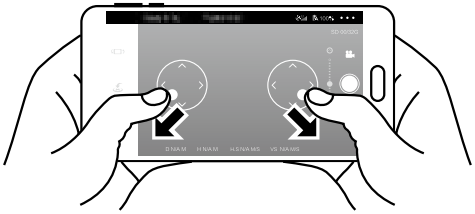
When the aircraft’s indicator light turns solid green, indicating good GPS signal and the aircraft located, you can unlock the aircraft and control it to take off.



Notes: For novice pilot, please use the position hold mode for your first flight, and switch to other control modes after you have been skilled with the operation of this mode. Please check the control mode before takeoff.

3) Take off (Please stay away from the aircraft during its takeoff)

Click the blank area of the screen, and the virtual joystick will pop up on the screen. Toggle the left and right joysticks outward (shown as the picture) to unlock the aircraft and get the propellers to start rotating.



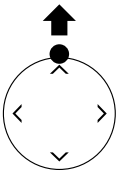
One key takeoff:Click and it will pop up with a confirmation box on the screen.

Click "Confirm". And the propellers will speed up its rotation to make the aircraft take off. Please stay away from the aircraft during its takeoff.

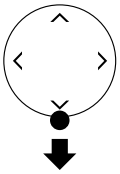
Click and it will pop up with a confirmation box on the screen.

Click "Confirm". And the propellers will automatically start to land. Please stay away from the aircraft during its landing.

4) Toggle the left and right joysticks to control its direction



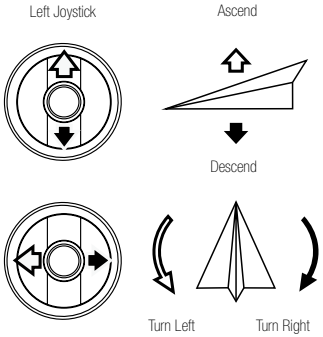
Take off:
Slowly toggle the throttle upward to control the aircraft to take off.

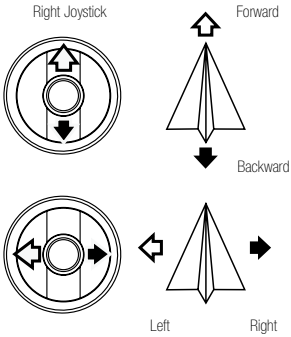


Landing:
Slowly toggle the throttle joystick downward to control the aircraft to land on the ground. Then continue to toggle it to the lowest position until the propellers stop rotating.

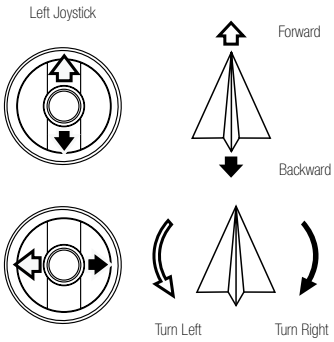
Please refer to the following illustrations for operation in mid-flight.

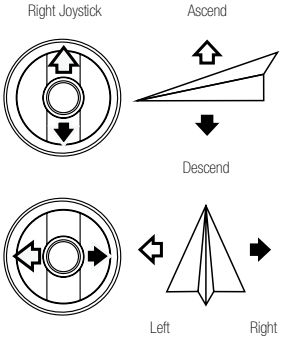
(1) Left-Hand Mode (Mode 2)





(2) Right-Hand Mode (Mode 1)





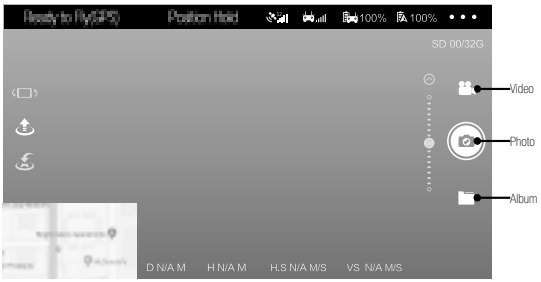
5) Gravity Sensor Control

Click to turn on gravity sensor control mode. Tilt your mobile phone to control the aircraft to move forward or backward, or turn left or right. Click again to turn off this mode. This function can only works with the assistance of the phone. Please be aware and use it carefully.

Attention: Please keep the phone balanced. The phone must support G-sensor.

4. Photo and Video

Click "Photo"or "Video" to take images or videos.



Click "Video", and the icon on the APP turns red, indicating it has been ready for video shooting. Click again, and the icon turns white, indicating it has stopped recording. All the videos will be saved in the album.

◯ **Aerial Photography Tips**

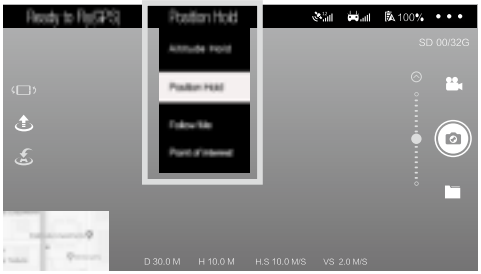
(1). Check the condition of all parts before flight.
(2). Take photos or vides when the drone is in position hold mode.
(3). Shoot on sunny and breezy days.
(4). Slightly toggle the joystick in mid-flight as to ensure a smooth flight.

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

1) Position Hold Mode

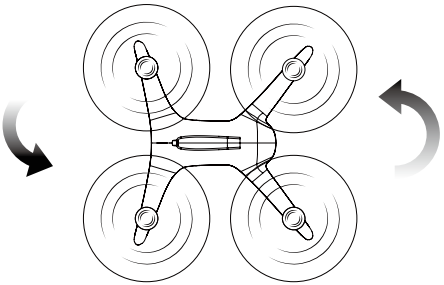
Users can choose the position hold mode when there is good GPS signal (the aircraft's indicator light turns solid green). In this mode, the aircraft will automatically locate its own position and perform a stable flight.



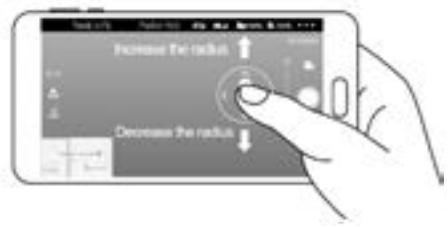
Click "Position Hold" as shown in the left picture, and a drop-down menu will pop up on the screen. Then select your desired flight mode.

2) Point of Interest

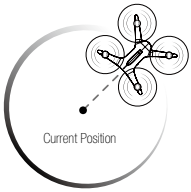
In point of interest mode, the aircraft will circle around a definite subject. You can control it forward or backward or change its radius.



Click "Point of Interest" and the aircraft will start circling around a definite subject.



Toggle the right joystick to increase or decrease the circling radius (the above picture shows an example of Mode 2)



When the radius has been changed, the aircraft will circle around the point when the point of interest mode turned on.

3) Altitude Hold Mode (without GPS)

Only optical flow positioning function is supported in this mode, which requires experienced operation skills. In mid-flight, if the optical flow positioning fails to locate the position (the aircraft's front indicator light flashes), please manually control the aircraft. Please familiarize yourself with the position hold mode first and learn how to handle altitude hold mode before using it.

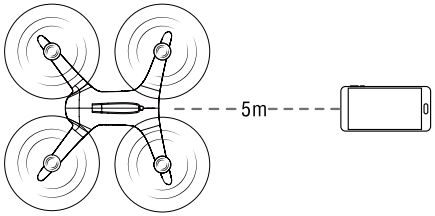
4) Follow Me Mode (available in "Ready to Fly (GPS)")

Select the follow me mode, and the aircraft will automatically follow your mobile device.

(1) Observe the GPS signal strength

Full GPS signal: turn on the follow me mode.
Good but not full GPS signal: not recommended to turn on the follow me mode.
Once turned on, please be aware of the aircraft and the surroundings at all times.
Weak GPS signal: must not turn on the follow me mode.

(2) How to operate



The aircraft will follow the mobile phone with 5 meters in distance.

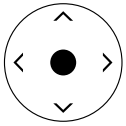
Notes: As for the return to home point as precise as possible, please fly the aircraft in open flat terrain (no tall buildings in 50 meters of radius, flat terrain in 10 meters of radius) with the GPS working well. Thus the return to home function will be able to activate.

6. Return To Home

Turn on the auto return to home function. When the confirmation box pops up, click "Confirm" to enter return to home mode. The aircraft will return to home point where it has taken off. Do not use the joystick to control any function during the process of return or ascent. When it is landing, you can toggle the joystick to change the landing site.

Return Button

Click Confirm to Enable RTH



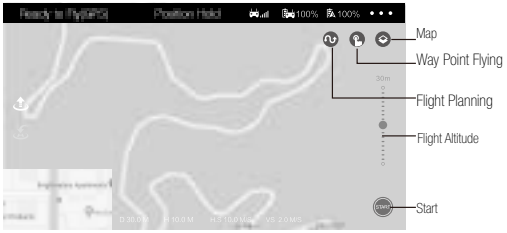
Joystick (Forward/ Backward)

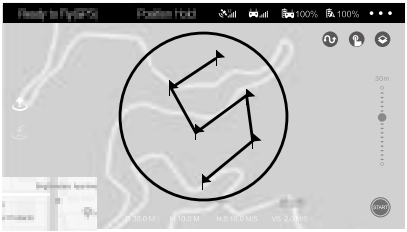
Notes: With the aircraft's position located (the aircraft's rear light turns solid green), control the aircraft to take off. Do not take off near obstacles as for precise home point.
Attention: With the position located, the aircraft will automatically enable Return To Home in the following situations:
1. The aircraft disconnects with the APP.
2. The aircraft has low battery level.
With the auto return to home mode 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. Do not control other functions during the process of return. And ensure there are no obstacles in way of return to avoid accidents.

After the aircraft lands and the propellers stop rotating, long press the power switch for at least 2 seconds to turn off the aircraft and the remote controller.

7. Waypoint Flying

Click the map on the bottom left of the APP (as shown in the left below picture), and a menu of "Map/ Flight Planning" will pop up.





Tap waypoints

Ensure high battery level of the aircraft and the mobile phone before enabling the waypoint flying mode. Click "Way point Flying" or "Flight Planning" after its takeoff and read through the attention tips. Tap way-points on the screen and set the altitude (30 meters of altitude by default) on the right side of the screen. Then click "Start" to enable waypoint flying mode. You will see the aircraft fly towards the designated point.

Click 

"Stop" to exit waypoint flying mode. When the aircraft flies towards the final waypoint, it will hover at that point.

Altitude Adjustment (30 meters by default)

Click to start

Please read through the attention tips and confirm

Attention: Please tap the waypoints within the circle (with a radius of 100 meters). When the waypoint flying mode has been turned off, the aircraft will hover at its current position. Tap other waypoints and it will continue to fly. Once the return to home or landing function has been enabled, the aircraft will automatically exit waypoint flying mode and return to home point or land on the ground.

Warning: For your personal and property safety, please use this function cautiously. Always choose a wide open area to fly the aircraft. Do not fly over crowds of people. Before flight, please observe the flight environment and set the flight altitude.