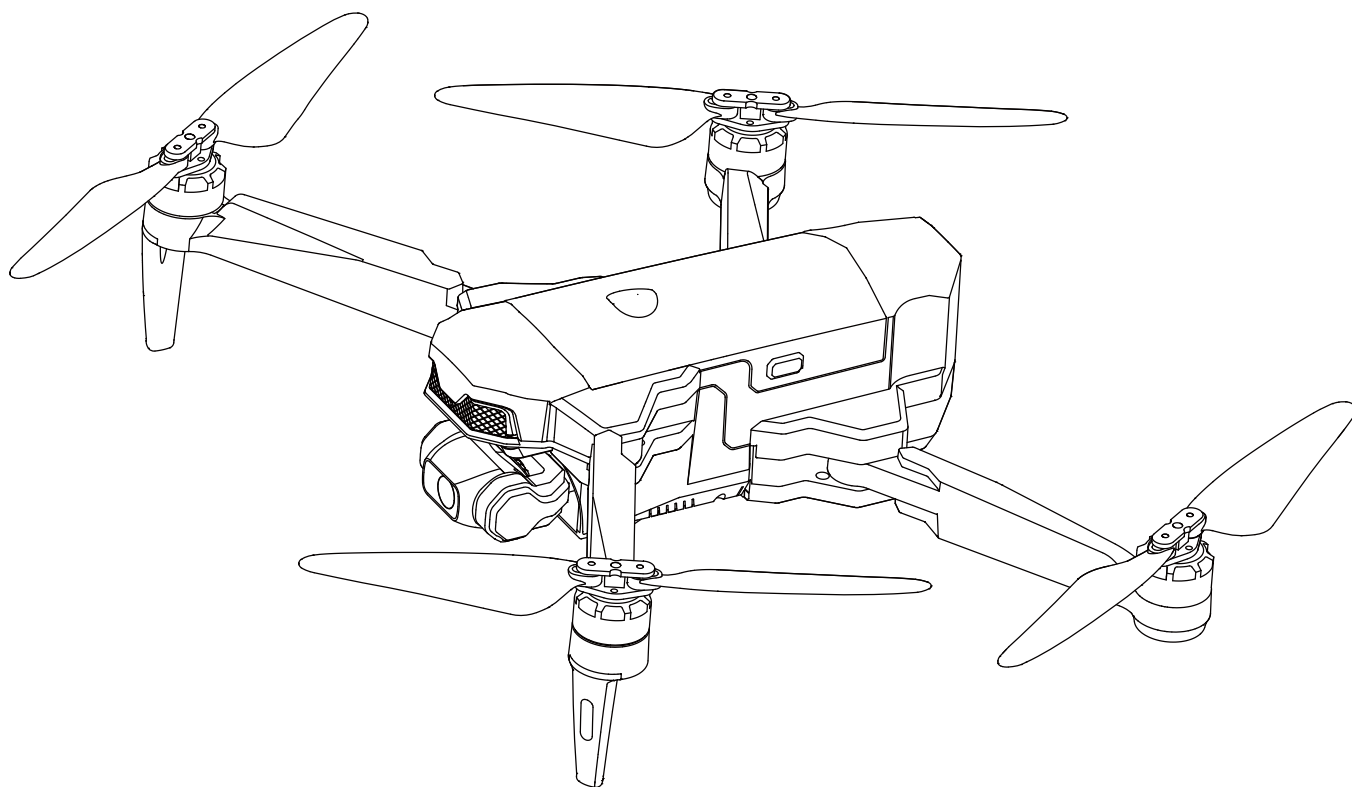




**14+**  
age

# Instructions For Use

(Please keep and read this manual carefully before using this product)



W11

[www.aovotoys.com](http://www.aovotoys.com)

Customer Service Email: [support@aovotoys.com](mailto:support@aovotoys.com)

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## DISCLAIMER & WARNING

1. Please read this Disclaimer & Warning and Safety Guidelines carefully before using our product. This product is not recommended for people under the age of 14. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damage caused while using this product, and its consequences. You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable policies and guidelines aovo may make available.
2. When using this product, please be sure to strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury property damage, legal disputes and all other adverse events caused by the violation of the safety instructions or due to any other factor, WILL NOT be aovo's responsibility.

## SAFETY GUIDELINES

### Check Before Using:

- ① This product is a high precision drone that integrates various electronic stability and control mechanisms. Please be sure to set up this drone carefully and correctly to ensure safe, accident-free operation.
- ② Please be sure that the batteries of the drone and controller are clean, undamaged and, fully charged.
- ③ Please be sure that all the propellers are undamaged and are installed in the correct orientation.

---

④ Please do a thorough check of the product before each use. Inspect the integrity of the parts, any signs of cracks and wear of the propeller, battery power and effectiveness of the indicator, etc. If after doing a complete check any issues are found, please refrain from using the product until the issue has been resolved.

### Flight Environment:



**Fly in Open Areas**

**Maintain Line  
of Sight**

**Fly Below  
390 feet (120 m)**



Avoid flying over or near obstacles, crowds, high voltage power lines, trees, South Pole and North Pole, base station.

DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.

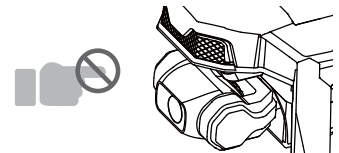


Don't use this drone in adverse weather conditions such as rain, snow, fog, and wind.

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## Operation Requirements :

- ① Please don't use this product to follow any moving vehicles.
- ② During the flight, only turn off the motor in case of an emergency.
- ③ As battery becomes low return the drone back to your starting point.
- ④ This product should not be used while drinking alcohol, if you are feeling fatigued, taking medicine, or feeling any physical discomfort.
- ⑤ Beware of the noise volume the drone produces. Keep your distance to avoid ear damage.



**⑥ Stay away from the rotating propellers and motors.**

**⑦ Don't fly in the No-Fly Zone.**

**⑧ Don't touch the Gimbal.**



## Use of Gimbal:

- ① The Gimbal is detecting rough 10 seconds after compass calibration. When the Gimbal indicator light is solid on, indicating detect completed.
- ② Do not touch the Gimbal
- ③ If the Gimbal getting stuck 7 times or more, it will out of running and the Gimbal indicator light will be solid on. Please reboot the drone.

## Use of Battery:

- ① Please ensure batteries are fitted in the correct orientation as shown in the instruction manual.
- ② Avoid short circuits by fitting the batteries incorrectly, and do not crush or squeeze the batteries as this could carry the risk of an explosion.
- ③ Do not mix new and old batteries as this can lead to a poor performance of the product.

- 
- ④ Dispose used batteries carefully. Do not litter.
  - ⑤ Please keep dead batteries away from heat and fire.
  - ⑥ If the device is not going to be used for an extended period of time, remove batteries to prevent potential damage from battery leakage.
  - ⑦ It is recommended to only use the USB charging cable that comes with the drone to charge the battery.
  - ⑧ Don't connect the battery directly to wall outlets or car cigarette lighter sockets.
  - ⑨ Don't attempt to disassemble or modify the battery in any way.
  - ⑩ Don't use the battery if it gives off an odor, generates heat, becomes discolored, deformed, or appears abnormal in any way. If the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.
  - ⑪ Don't pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it!
  - ⑫ Always charge the batteries in a fireproof container and away from combustible materials. Don't charge on surfaces that can catch fire. This includes: wood, cloth, carpet, or in the application's device.
  - ⑬ Don't immerse the battery in water or allow it to get wet.
  - ⑭ Don't solder battery terminal directly.
  - ⑮ Keep battery out of reach of children or pets.
  - ⑯ Don't short-circuit the battery by connecting wires or other metal object to the positive(+) and negative(-) terminals.

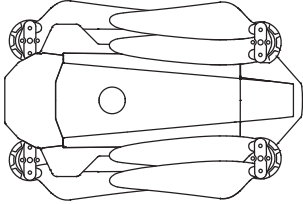
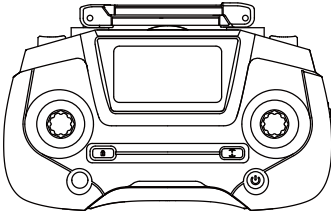
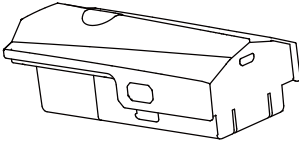
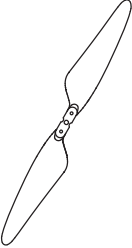
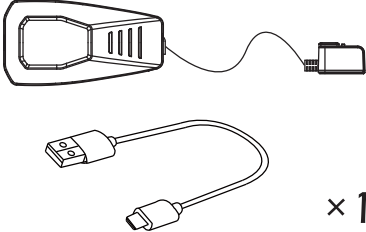

	<p><b>Li-Po Battery Disposal &amp; Recycling</b></p> <p>Waste Lithium-polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the waste agency or the supplier of your model or your nearest Li-Po battery recycling center.</p>	
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## MAINTENANCE

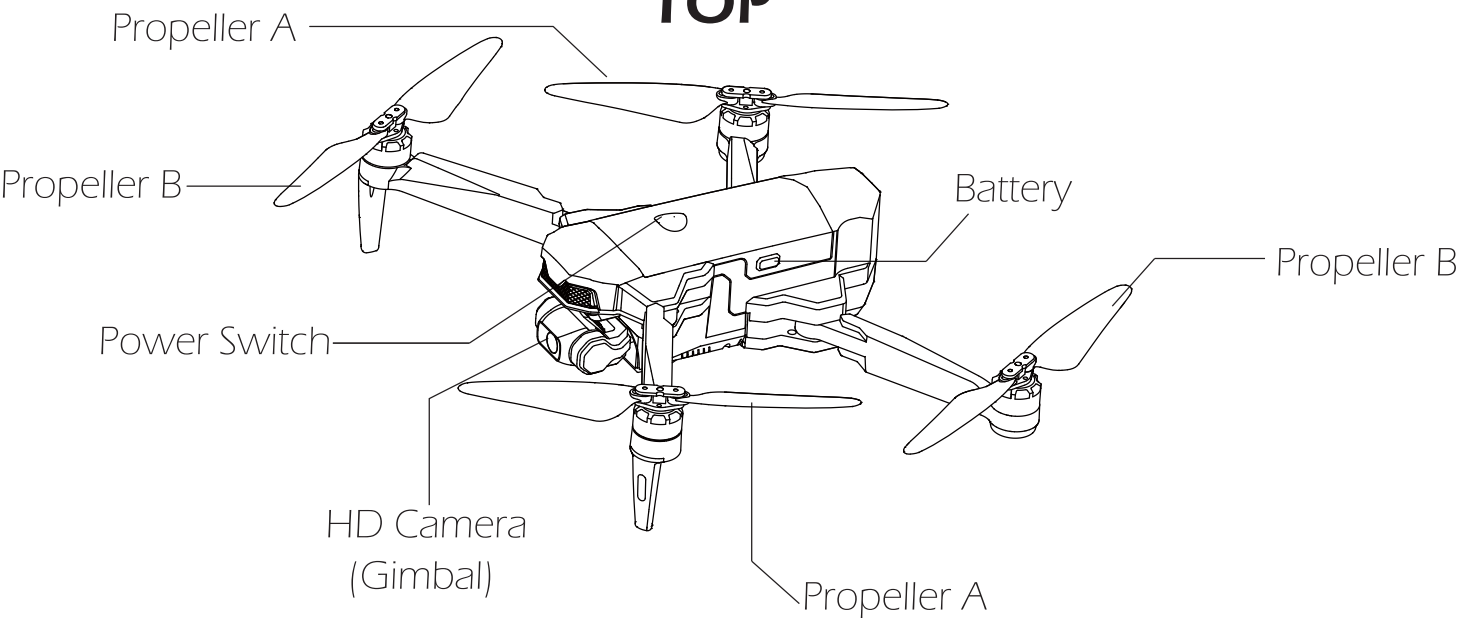
- ① Clean the product after each use with a clean, soft cloth.
- ② Avoid prolonged exposure to direct sunlight and avoid buildup of heat on the drone.
- ③ This device is not waterproof and must not be submerged in water under any circumstance. Failure to maintain the device completely dry will result in the failure of the unit.
- ④ Check the charging plug and other accessories for signs of damage frequently. If any part of the device is damaged, refrain from flying until maintenance can be carried out.

## PACKAGE CONTENTS

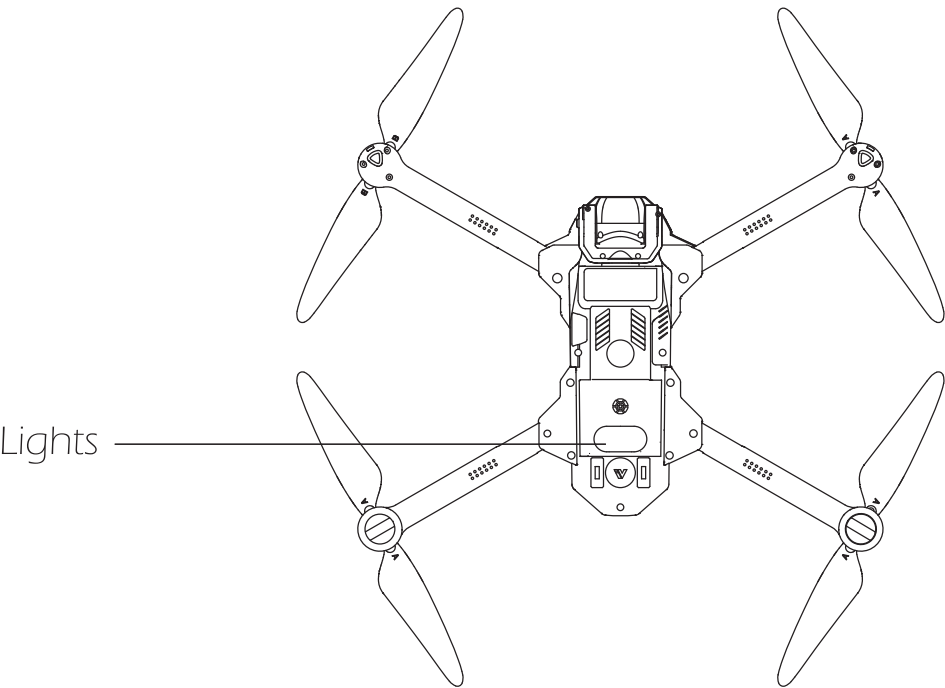
 ×1	 ×1	 ×2
Drone	Controller	Drone Battery
 ×4	 ×1	 ×1
Propeller	USB Charging Cable with Charge Hub	Screwdriver

# DRONE'S DETAILS

## TOP



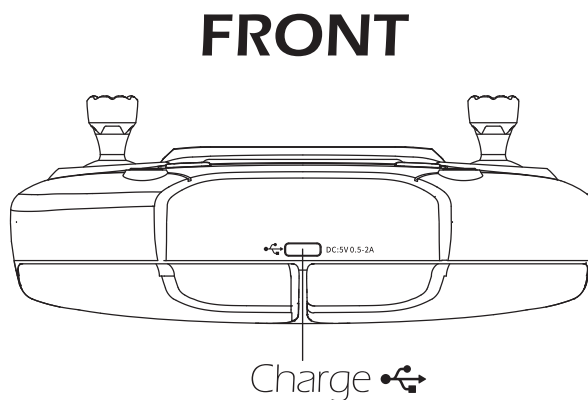
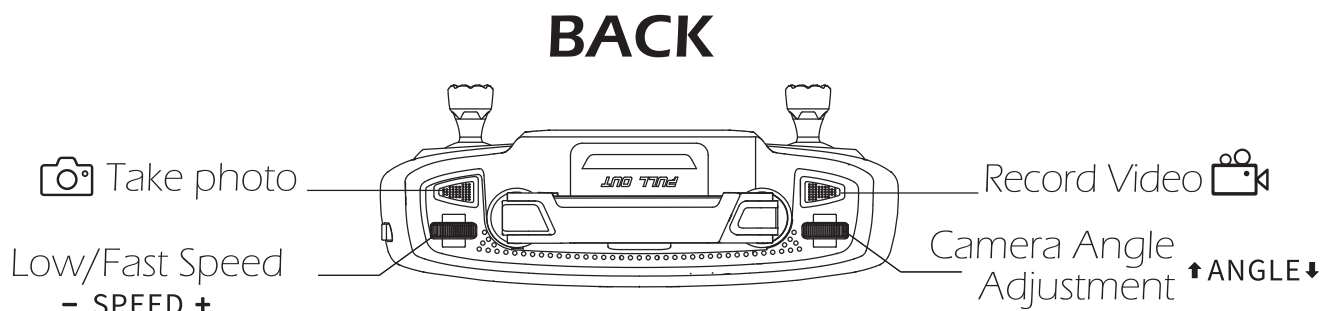
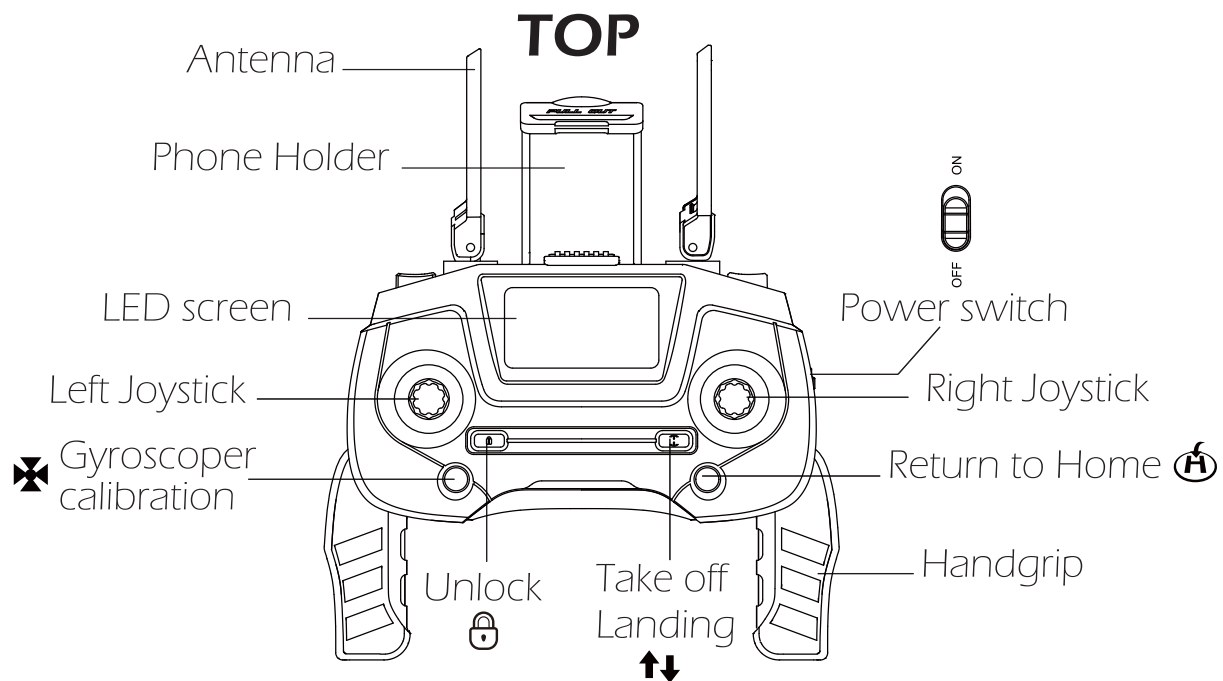
## BOTTOM



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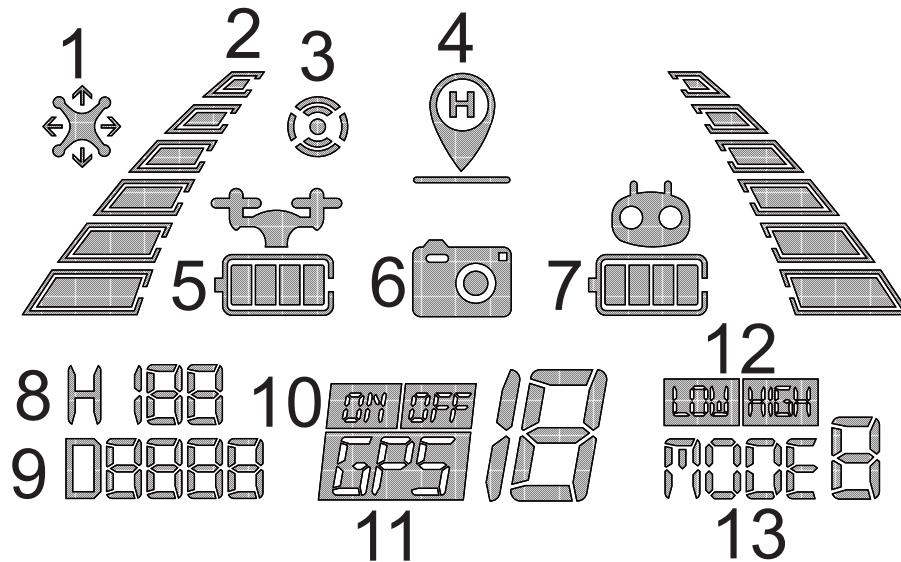
# CONTROLLER DETAILS

## Controller Functions






## Screen



1. Gyroscope calibration
2. Flight signal
3. Compass calibration
4. Return to home
5. Drone battery energy
6. Take photo/Video
7. Controller battery energy
8. Height
9. Distance
10. GPS status
11. GPS signal
12. Low/Fast speed
13. Throttle switch (Mode 1 left throttle/Mode 2 right throttle)

### • Left/Right throttle Swift

The controller defaults the left throttle.

To switch it to right throttle, turn off the controller, then, long press the '  ' button and turn on the controller at the same time. 'MODE 2' shows on LED screen means it switched successfully.

If need to change back to left throttle, just reboot the controller.

---

### • GPS Mode Switch

When turning on the controller, the default mode is the GPS Mode. Check the icon on the controller screen to confirm GPS status.

### • Return to Home

Press the button to start the RTH. The controller emits a “beep-beep” sound every 1.5 seconds as the drone flies back to the recorded Home Point.

Press the RTH button again to exit RTH procedure and regain control of the drone.


### • Unlock/Lock

Press the button “  ” then the motor will rotate.

Press the red button “  ” again, the motor will stop rotating and the drone will be locked.

### • Photo/Video

Press the camera button  on the Controller, the camera takes one photo.

Press the same video button  on the Controller, the camera will take the video. Press again will exit shooting.

### • Speed Switch

Low speed is the default setting.

Push the gear “ - SPEED + ” to right on the Controller and you will hear a “beep”, indicating the drone is at low speed.

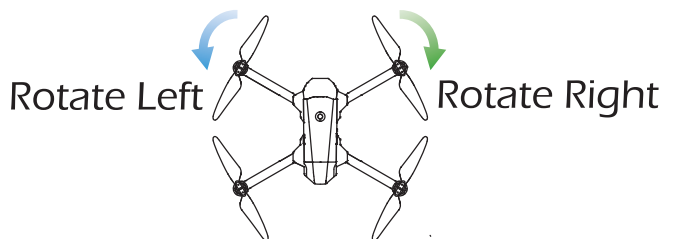
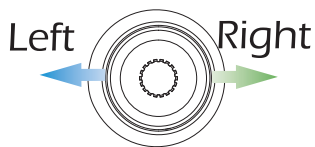
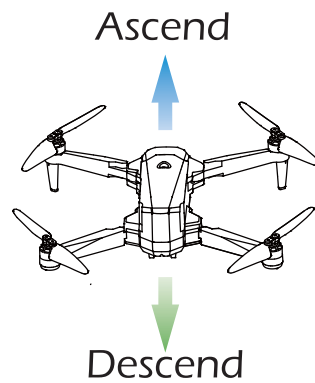
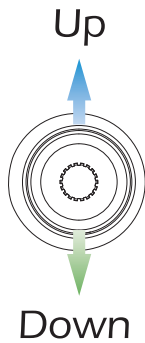
Push the gear “ - SPEED + ” to left and you will hear two beeps, indicating the drone is at high speed.

---

# Controller Operation

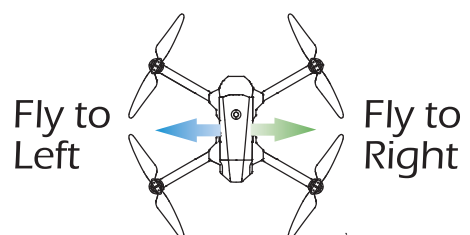
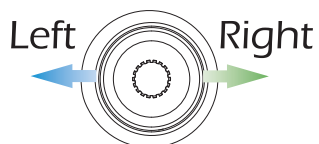
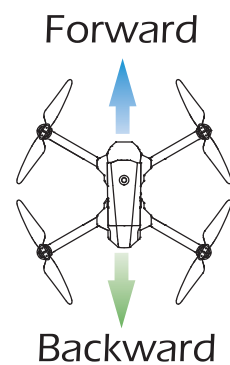
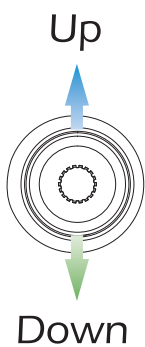
## Left throttle

### Left Joystick



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### Right Joystick

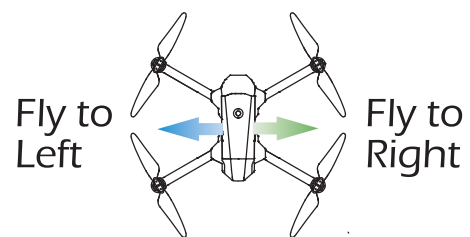
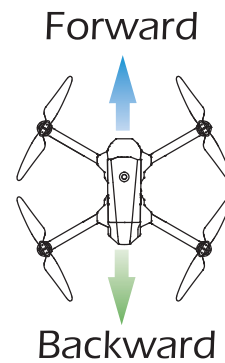
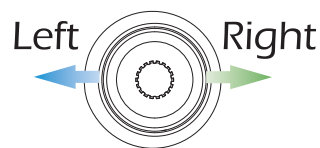
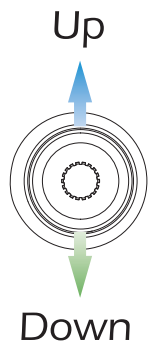


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# Controller Operation

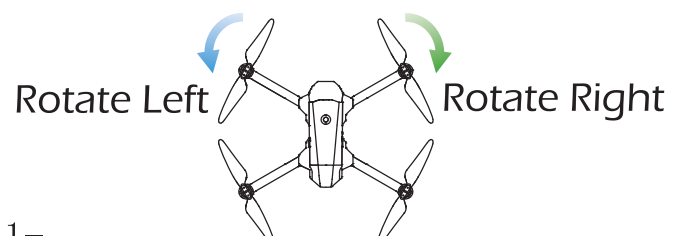
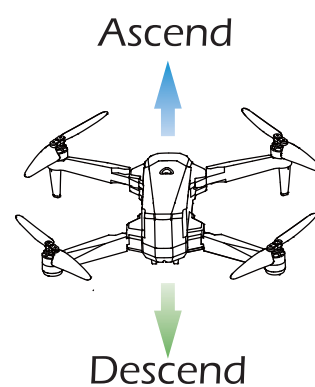
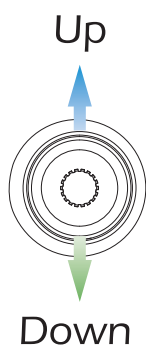
## Right throttle

### Left Joystick



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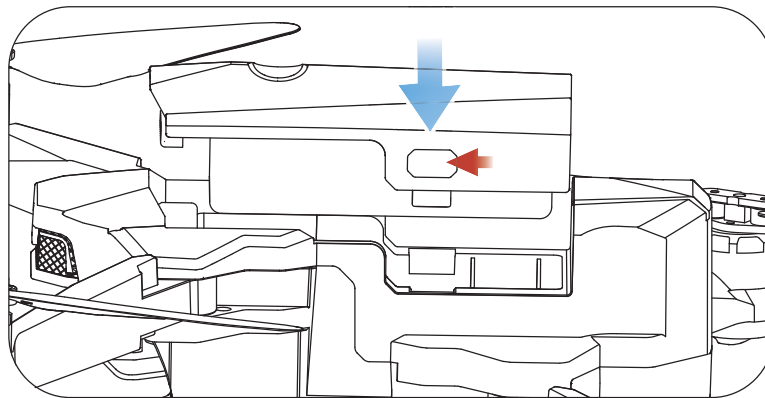
### Right Joystick



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# INSTALLATION

## Drone Battery

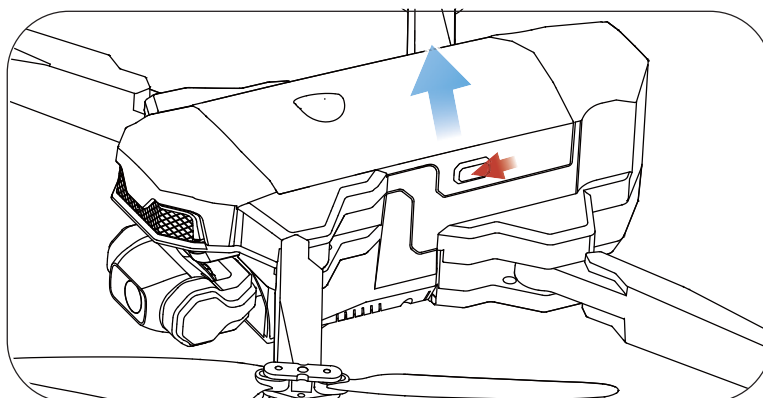


**Installation:** Push the battery into the battery compartment of the drone. Make sure it “clicks” into place indicating the battery is firmly installed.

### Attention:

The battery should be installed firmly. Failure to do so may affect the flight safety of your drone. The drone may crash due to a power-cut during flight.

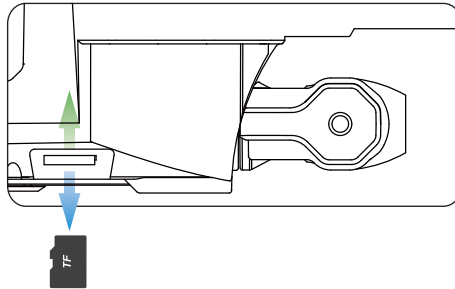
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**Removal:** As shown above, press and hold the locks on both sides of the battery at the same time to remove the battery.

---

## Install TF Card



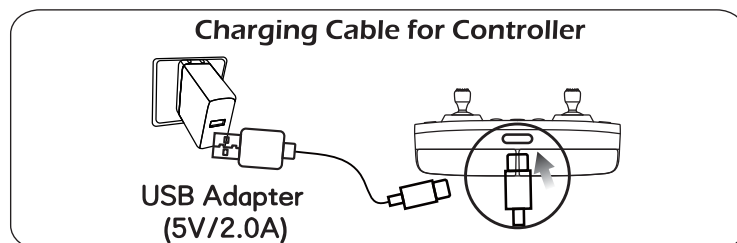
As shown in the above figure, please insert the TF card ( needs to be purchased separately ) into TF card slot. A “click” signifies it is inserted correctly. It will indicate memory card capacity in “SD Card testing ” of APP interface, that mean is the card was indentified.



1. Click the SD card testing will delete all contents in the SD card and cannot be recovered. Please be careful before confirmation.
2. The original pixel-sized pictures and videos will be stored on the TF card.

---


## Controller Battery



Low battery warning

When the controller battery energy icon  is flashing and controller handle emits a "beep" alarm sound every 3 seconds, indicating that the controller power is too low. The controller needs to be charged at this time.

**Tips: Please turn off the controller before charging.**

1. Connect the USB cable to a USB socket such as a mobile power supply.
2. Connect the controller with the USB cable and controller handle emits a "beep" sound. Flashing controller battery energy icon  indicates charging status. Charging is completed when the icon is solid.



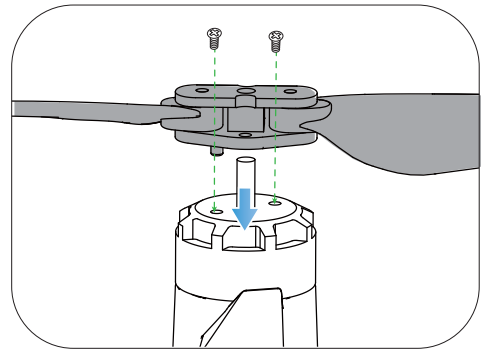
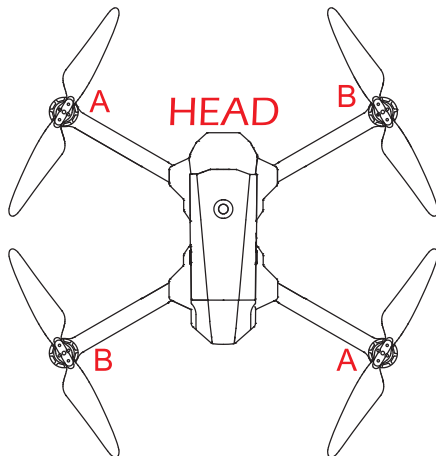
Note:

1. Charge only by original factory USB cable (Type C).
2. Use a power supply with standard output voltage 5V and current greater than or equal to 2A, otherwise there is a risk of overloading the USB cable and battery. A full charge takes approximately 90 minutes.

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# Propellers

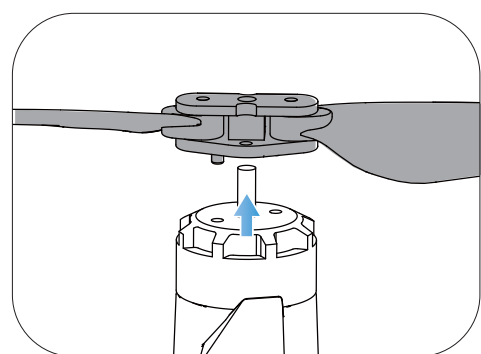
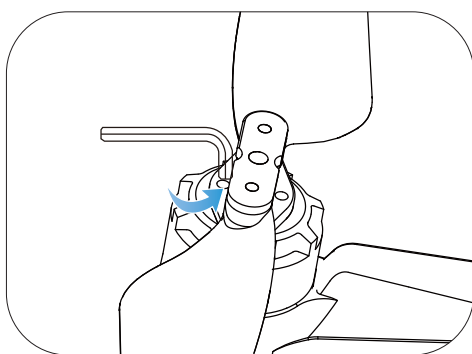
## Installation



The drone will not fly unless the correct propeller is installed on the correct motor shaft. See illustration above. An "A" or "B" is printed on the back of each propeller. Lock the propeller to the motor shafts with screws rotating each screw clockwise.

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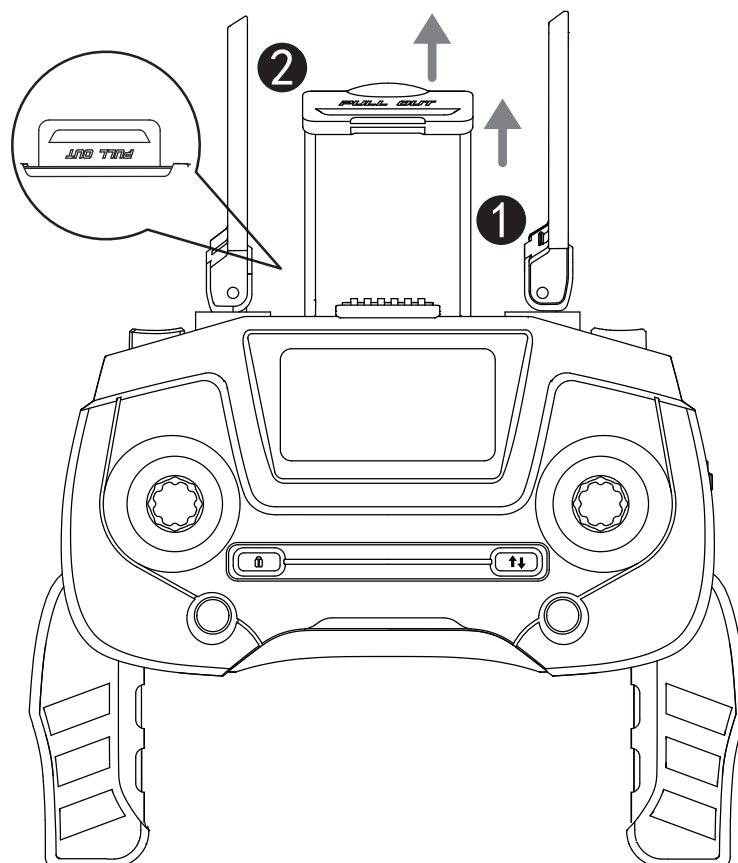
## Removal



For propeller removal use screwdriver (provided) to rotate counter-clockwise and remove propellers.

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## Phone Holder



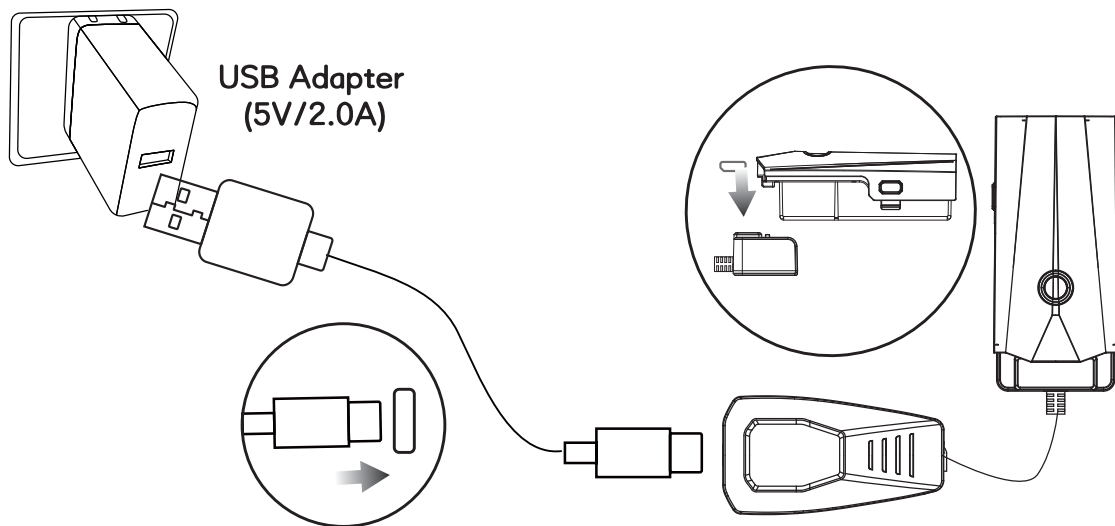
- ① Separate the Mobile Device Holder by pulling out ② from ① of controller.
- ② Adjust the Mobile Device Holder for a tight grasp of your phone.



---

# CHARGING

## Charging Cable for Drone Battery



- ① Connect the USB cable to a USB socket such as a mobile power supply (Use a power supply with standard output voltage 5V and current greater than or equal to 2A, otherwise there is a risk of overloading the USB cable and battery). Connect the charger with the USB cable, and then connect the battery with the charger. The charger's LED's begin flashing. When all four LED's become solid, full charging is completed.
- ② The charging time of a single battery is 4~6 hours.

- ⚠ 1. Charge only by original factory USB cable (Type C).
2. Before charging, please carefully review the "Use of Battery" section contained in "SAFETY GUIDELINES".

---

# OPERATION GUIDE

## Download APP



iOS



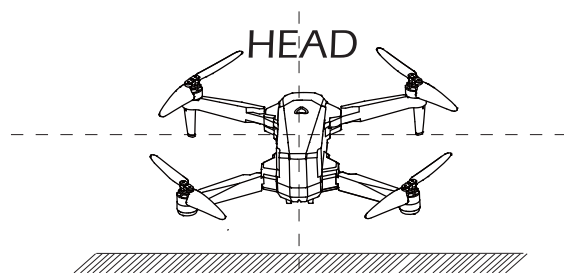
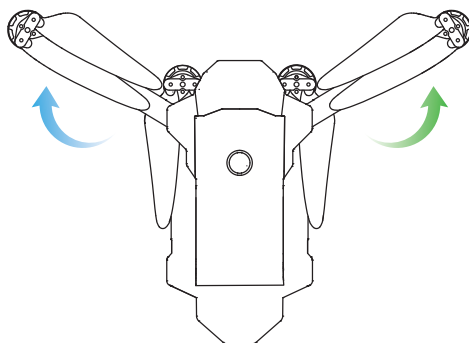
Android APP on Google play

Scan the QR code, corresponding to either App Store™ or Google™ Play Store and download the “ W - GPS ” application for free.

Required Operating Systems: iOS v8.0 and later / Android v4.3 and later

Tips: Please use a smartphone that can support receiving 2.4G and 5G WiFi signals.

## Unfolding the Drone



To unfold the drone follow the steps below.

Step 1: Unfold the front arms.

Step 2: Unfold the rear arms and place drone on a flat, level surface. Head should face forward.

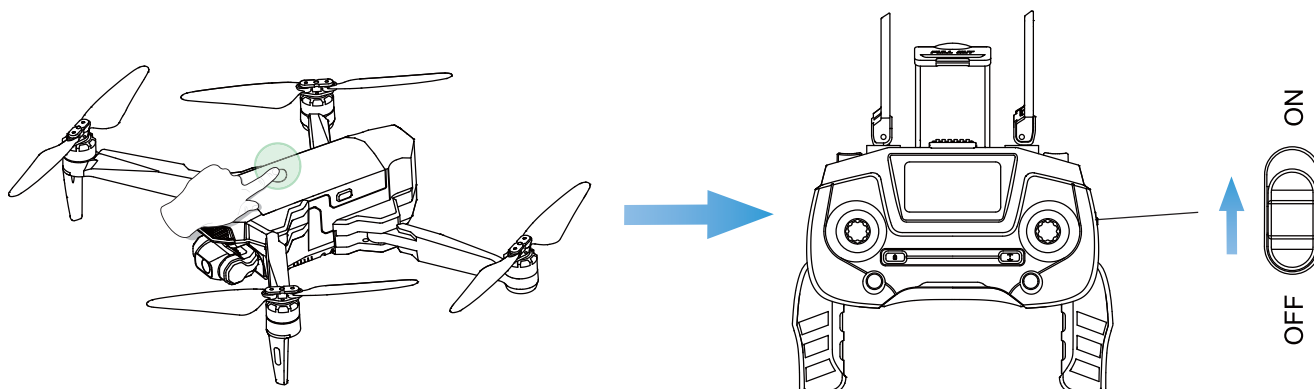
## CONTACT US

Please do not hesitate to contact us if you need further support.

Customer Service Email: [support@aovotoys.com](mailto:support@aovotoys.com)

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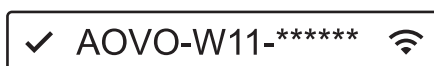
## Pairing



- ① First, press the drone Power Switch and quickly release. Then, press again and hold for approximately 2 seconds. The drone will emit a sound and the battery LED's will brightly illuminate indicating it is now powered up. Place drone on a flat, level surface with the head facing forward.
  - ② Turn on the switch on the controller by sliding it to the top. Once the controller emits "beep-beep" sound it confirms that the drone and controller are now successfully paired.
- 

## Connect to Wi-Fi

- ① Connect your smart phone to the Wi-Fi network created by the drone. Check the drone's status in the "W - GPS" App.
- ② Your smartphone will launch a search of the available Wi-Fi networks:




- ③ Select the Wi-Fi network: **AOVO-W11-\*\*\*\*\***.
- ④ Wait for several seconds until your smartphone connects to the drone's Wi-Fi network.

This connection is generally represented by the Wi-Fi logo appearing on your smartphone's screen.

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⑤ Launch the **W - GPS** application.

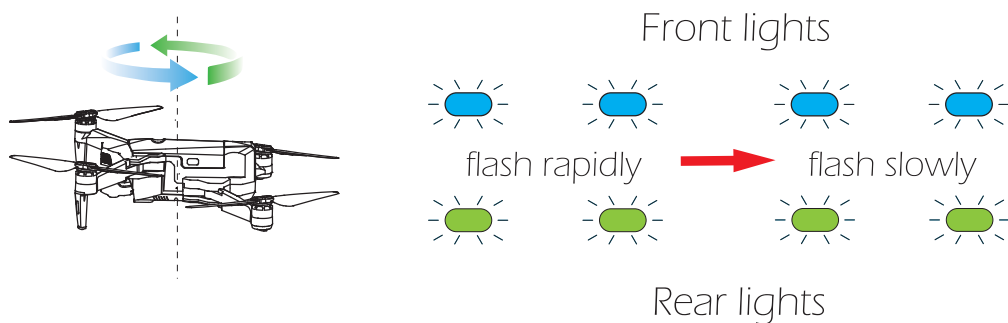
> The connection between your smartphone and the drone will be established automatically.

 Please operate pairing between drone and controller before connecting WiFi signal.


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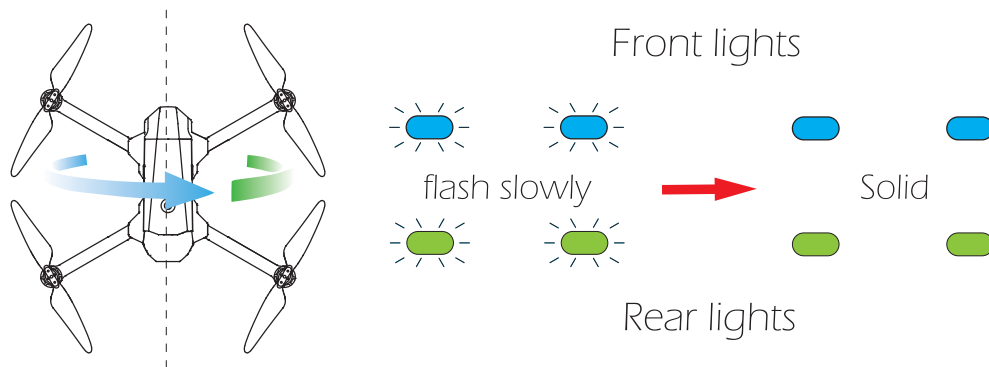
## Calibrating the Compass

After successful pairing, the drone LED lights flash rapidly. You can now begin compass calibration.




### Step 1:

Now, the APP interface displays the above diagram and the Compass calibration icon  in controller screen is flashing. Hold the drone horizontally and rotate the drone in approximately 3 complete circles. When completed, the controller emits a “beep” sound and the drone's LED lights flash slowly.



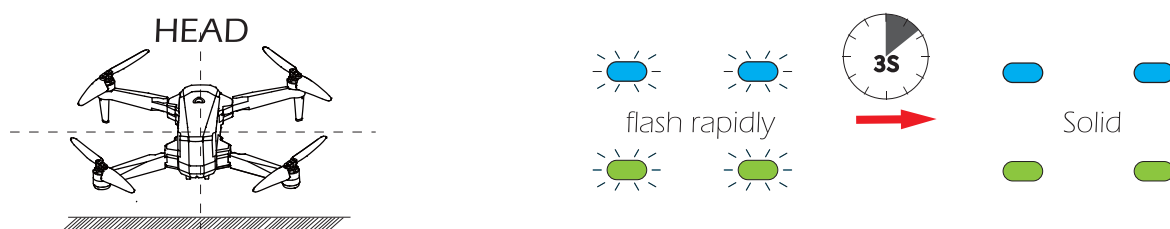
## Step 2:



Now, the APP interface displays the diagram. Hold the drone vertically and rotate the drone in 3 complete circles. When completed, the controller emits a “beep” sound and the drone's LED lights become solid and the Compass calibration icon  in controller screen is solid on.

### Attention:

- Now the Gimbal is detecting rough 10 seconds. Please do not touch the Gimbal.
- When it indicates “Equipment connected (GPS Model)” in the APP interface, means that the drone receives the GPS signal. Now, the rear LED's of the drone will flash twice per second.
- Every time the drone is powered on the compass calibration should be performed.

## Gyroscope calibration

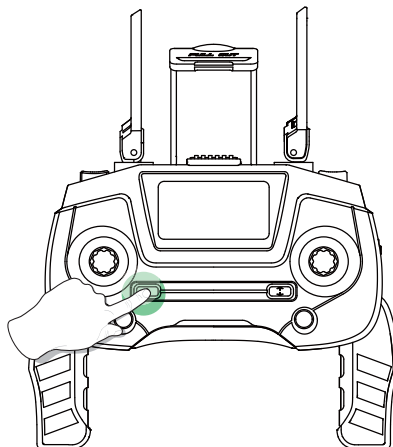


Now, the APP interface displays the diagram. Place the drone on a flat level surface and  Slide right to confirm . The LED lights of the drone will flash rapidly for about 3 seconds. When completed, the front and rear lights turn solid. Or press the Gyroscope calibration switch “  ” on the controller. The LED lights of the drone will flash rapidly for about 3 seconds. When completed, the front and rear lights turn solid.

---

## Unlocking the Motor

Please unlock the motor before take-off.



⚠ Press the button “🔓”, the motors rotate.

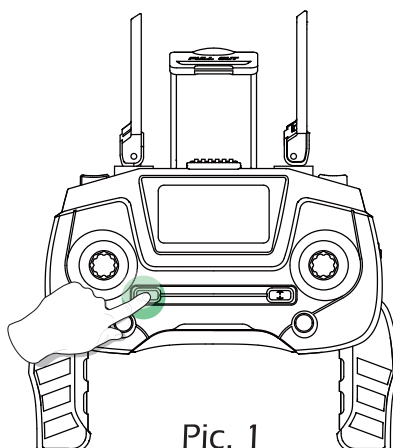
① Unlocking the motor

Please unlock the motor while it indicates “Equipment connected (GPS Model)” in the APP interface

② If you do not perform any operation approximately 10 seconds after unlocking the drone, the motors will stop rotating.

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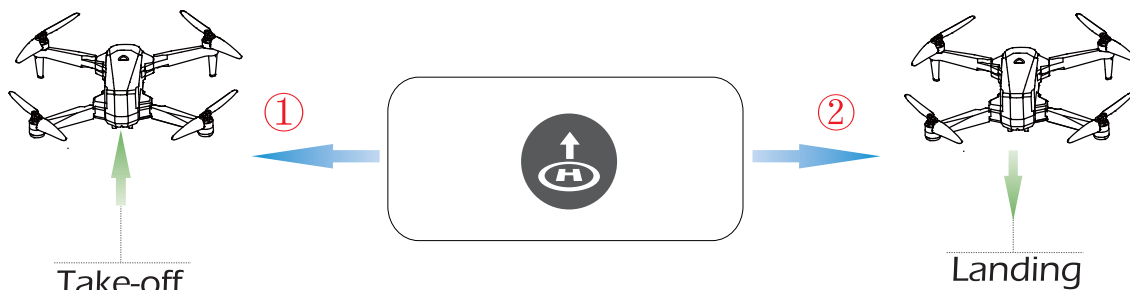
## Locking the Motor





Pic. 1

Press the button “🔓” again, the motor will stop rotating and the drone will be locked. (Pic.1)

## One Key Takeoff/Landing



① After unlocking the drone, press the “” button on the controller and the drone will automatically take off and hover at 1.5m altitude. Or press the “” in the APP interface, then “ Slide right to confirm ”after unlocking the motors.

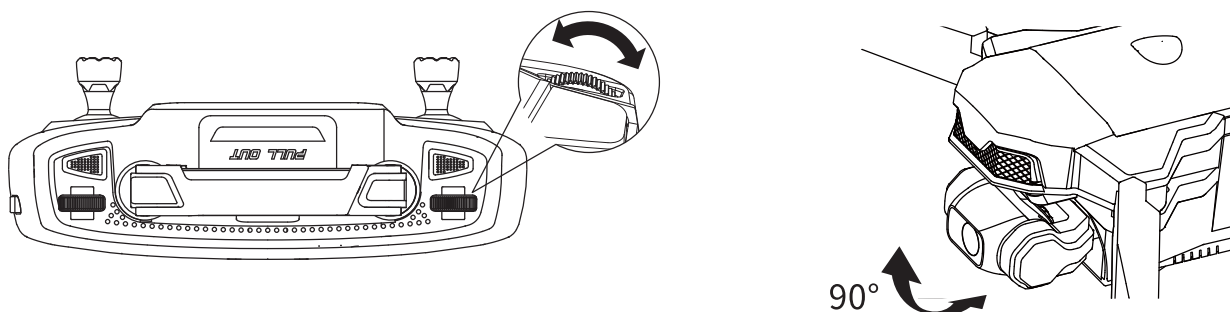
② When drone is flying, press the “” button on the controller, the drone will fly back to the Home Point and automatically land on the ground.

### Tips:

Before flying, make sure the GPS Mode is turned on in case the drone gets lost!

## FUNCTION DETAILS

### Camera Angle Adjustment



During flight, you can dial the wheel left/right to tilt the camera up/down. (The gimbal has a 90° tilt range.)


 Please do not touch the camera gimbal directly. Doing so may cause damage!

---

## Return to Home (RTH)

- The Return to Home function brings the drone back to the Home Point.
  - The Home Point is the location at which the drone takes off. This location will be recorded as the Home Point.
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### Smart RTH

If the GPS signal is available, it indicates “Equipment connected (GPS Model)” in the APP interface, the home point is recorded previously, press the “” button on the controller, then the drone will fly back to the Home Point.

Exit the RTH mode by pressing the “” button again.

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### Failsafe RTH

If the GPS signal is available, it indicates “Equipment connected (GPS Model)” in the APP interface and, the home point is recorded previously. Failsafe Return will be triggered if the controller signal is lost for more than 6 seconds. The drone will automatically start the return procedure and it will fly back to the Home Point. You can exit “Failsafe RTH” mode by pressing the “Return to Home” button or pushing the Throttle Joystick if the controller signal is recovered.



- During the Failsafe Return procedure, the drone cannot avoid obstacles.
- The drone cannot Return to Home if the GPS signal is weak (satellites number less than 7).