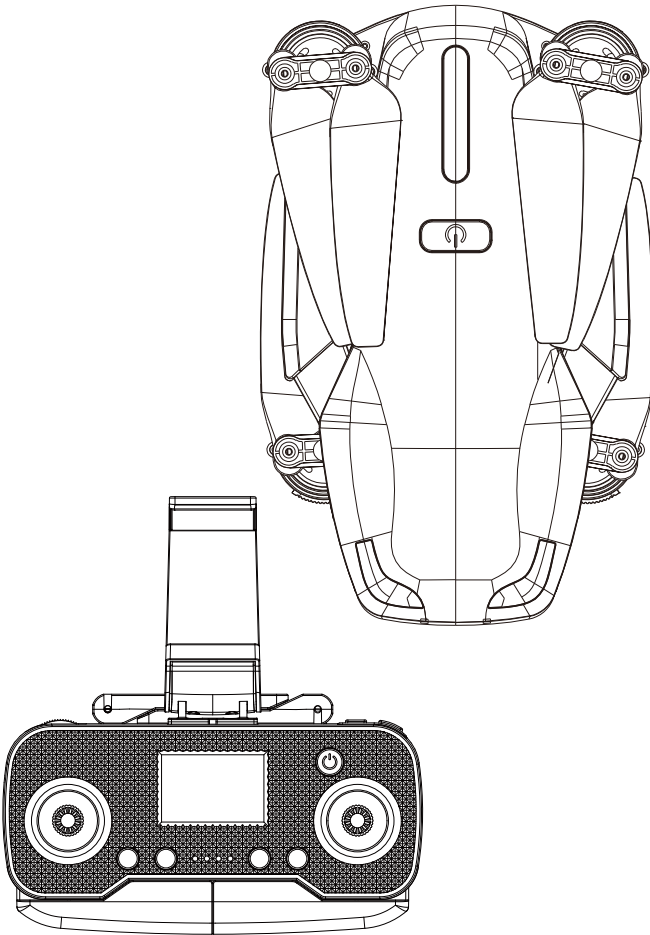


AGES 14+

# GPS DRONE INSTRUCTION MANUAL



**PLEASE READ COMPLETELY THE MANUAL AND  
KEEP IT WELL FOR USE REFERENCE.**

## **⚠WARNING**

In order to ensure the electromagnetic environment requirements for aeronautical radio navigation stations, it is forbidden to use various remote control and drones within 10 km on both sides of the airport runway center line, 20 km from both ends of the runway, on civil aviation's air routes or air line. During the period of the management of radio operation orders by the relevant state departments, the various remote control and drones shall be stopped as required.

## **DISCLAIMER AND SAFETY INSTRUCTIONS**

In order to make it easier and safer to use this product, please read all the contents of this manual carefully before using this product, and save this manual for future reference.

### **DISCLAIMER**

1. In order to protect the legitimate rights and interests of users, please carefully read the instructions, disclaimers and safety instructions provided with this product before using this product.
2. This product is not suitable for people under the age of 14. People under the age of 14 need to use it under the supervision and guidance of adults with aircraft flight experience.
3. Once you start using the product, you are deemed to have read, understood, recognized and accepted all terms and contents of the product's instructions, disclaimers and safety instructions.
4. In the process of using this product, please be sure to strictly abide by and implement the requirements including but not limited to the instructions and safety instructions. For all personal injuries, accidents, property losses, legal disputes and all other adverse time resulting in conflict of interest caused by using behaviors or irresistible factors in violation of safety instructions, the user shall bear relevant responsibilities and losses, and the company will not bear any responsibilities.
5. The company will not be liable for any direct or indirect violation of laws and regulations caused by the user's use of the product.

### **SAFETY INSTRUCTIONS**

1. This product is not suitable for people under the age of 14 and other people without full civil capacity.
2. The product has high-speed rotating blades and powerful flight power, and has certain danger in operation. Do not approach or touch the product while it is working.
3. When using this product, please keep away from dangerous environment such as airport, railway, highway, high building, electric wire, etc.
4. When using this product, please keep away from the high electromagnetic interference environment such as mobile base station, high-power transmitting equipment, etc.
5. When using this product, please keep away from all kinds of manned aircraft.
6. Please do not use this product in rain, thunder, dust, fog, snow, strong wind, low temperature and other harsh environment
7. This product is non waterproof design, please do not operate this product near the water area.
8. When operating this product, please always keep a safe distance of about 10 meters between the aircraft and people or animals.
9. Always keep the aircraft flying within the operator's visual range.
10. Do not hover or fly over the crowd, please don't take pleasure in frightening others
11. Do not operate this product near the place where children play.
12. Do not use this product to chase vehicles or affect the normal operation of vehicles.
13. Do not turn off the aircraft when the product is flying in the air without emergency.
14. This product can not be used under the circumstances of drinking, fatigue, taking drugs, physical discomfort, etc.
15. Please check the product before each use, including but not limited to the firmness of parts, cracks and wear of engine body and propeller. Battery capacity, validity of indicator, etc. In case of any abnormality, please stop using and replace the corresponding accessories immediately.
16. The aircraft in abnormal working condition may have accidents. Do not start the blade or barely fly.
17. Do not attempt to block any moving parts in the operation of this product.
18. Do not modify this product or use it for non original design purposes.
19. Do not operate this product in the no fly zone of laws and regulations.

20. Due to the variety of materials used in the aircraft, high temperature will damage the internal structure of the aircraft, and lead to unpredictable consequences. Therefore, please keep the aircraft away from the heat source and avoid exposing to direct sunlight for a long time.
21. Please follow the product instruction manual.
22. Please use original accessories for maintenance and replacement.
23. Please make sure that other operator understands and abides by the safety instructions.
24. Do not mix different types of batteries.
25. Do not use expanded, leaking or damaged batteries.
26. Keep away from inflammables when charging the battery (such as blankets, solid wood furniture, wooden boards, etc.)
27. Please use the original charging line. Do not use other brands or damaged charging lines.
28. Please keep a safe distance from the high-speed rotating blades to avoid the risk of strangulation and cutting.
29. Do not use the aircraft close to the ear! Misuse may cause hearing loss.
30. Aircraft should be used as far away from other electrical equipment and magnetic objects as possible, which may cause mutual interference.
31. Please do not short circuit or squeeze the battery to avoid explosion.
32. The motor is a hot part. Please do not touch it to avoid scalding.

## CHARGING PRECAUTIONS

1. There are certain risks in using lithium battery, which may cause significant losses to people and property. Please use it carefully and bear all relevant responsibilities by yourself.
2. If the battery leaks, avoid contact with skin and eyes. If you touch the skin, please wash it immediately with soap and clear water. In case of contact with eyes, wash immediately with plenty of water and see the doctor immediately.
3. If the charger emits odor, noise or smoke, please unplug the power supply immediately.

## CHARGING INSTRUCTIONS

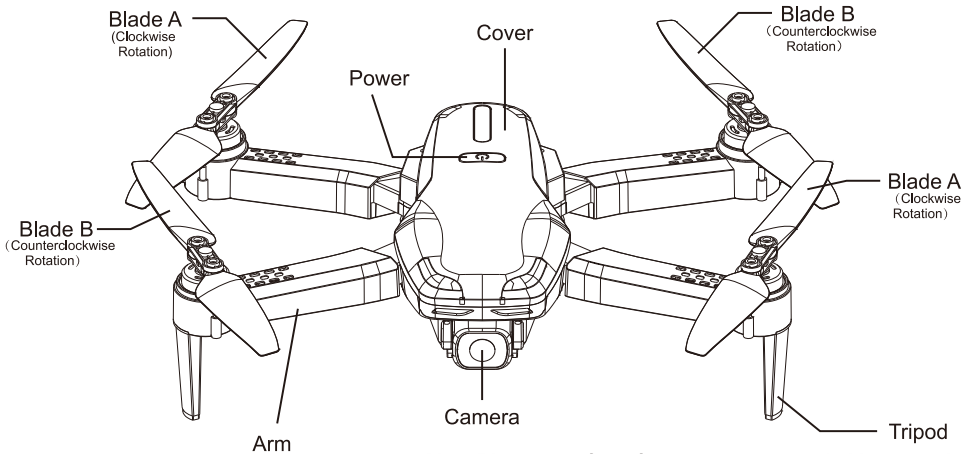
1. Please use the original special charger for charging. Do not use damaged or other brand chargers.
2. Do not charge batteries that are swollen, leaking or damaged.
3. Do not overcharge the battery. Once the battery is fully charged, please dial out the charger.
4. Do not charge on the surface near inflammables (blankets, wood floor, solid wood furniture, etc.) or conductive objects. Please keep the battery in the view range when charging.
5. Do not charge the battery immediately after using the product and wait for the battery to cool down for 10-15 minutes.
6. The charging temperature of the battery should be between 0 °C and 40 °C.

## RECOVERY

The device consists of electronic components and batteries. For electronic waste, please carry out special treatment according to the local waste treatment requirements.

# PRODUCT INTRODUCTION

## AIRCRAFT INTRODUCTION

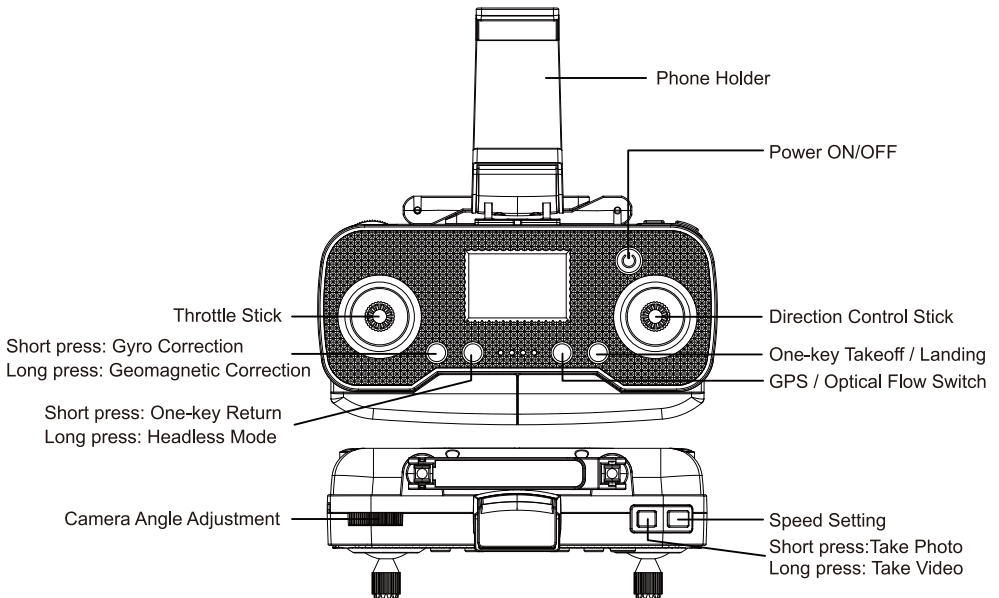


Note: Photos are for reference only, please in kind prevail.

### NOTE

When replacing the blades, ensure that the blades a / b installed on each shaft are consistent.

## REMOTE CONTROL INTRODUCTION



Tips: One-key Return and GPS / Optical Flow Switch button should be long pressed to achieve function.

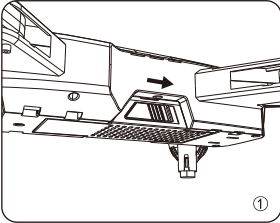
Low power indication:

1st alarm: when the power of drone is low, there is a slow warning of "Di-Di", about 2 second per "Di-Di", the drone will fly back automatically. Then you need to charge it.

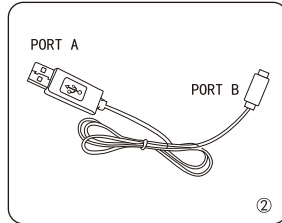
2nd alarm: when the "Di-Di" sounds become quickly and frequency, the drone will auto land. You need to take it back and charge it.

# CHARGING AND BATTERY INSTALLATION

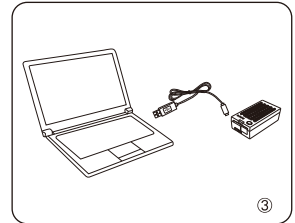
## CHARGING



1. Take out the battery from the drone



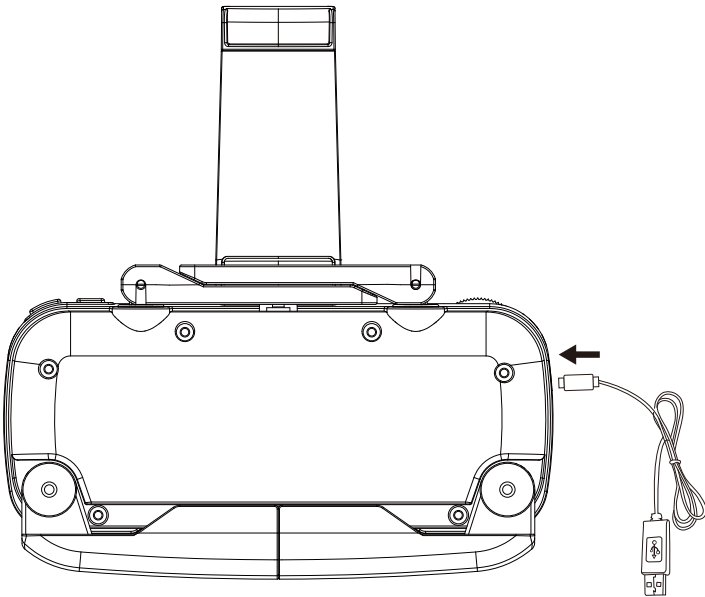
2. Connect the USB charging cable with the battery



3. Connect the USB charging cable with computer

While charging, the red LED on USB cable will be on. When charging is completed, the LED will be off. The charging time is about 200minutes.

## REMOTE CONTROL BATTERY CHARGING



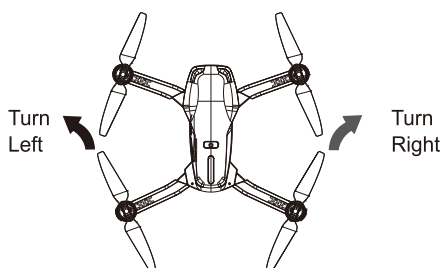
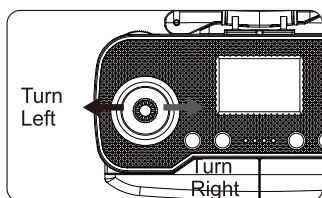
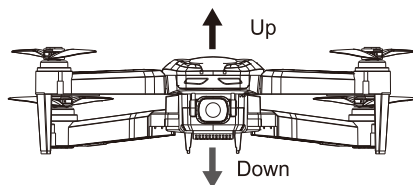
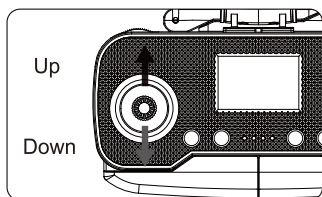
1. Connect the USB charging cable (same cable as drone battery) with controller.
2. Connect the USB charging cable with computer

While charging, the red LED on USB cable will be on. When charging is completed, the LED will be off. The charging time is about 90 minutes.

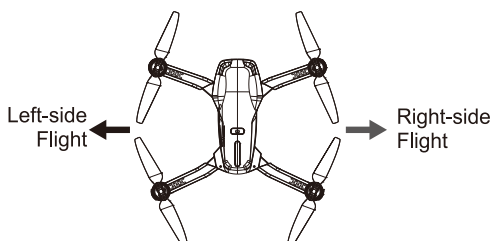
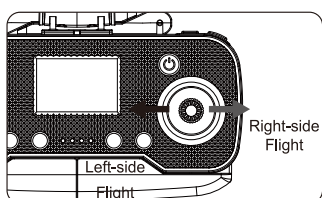
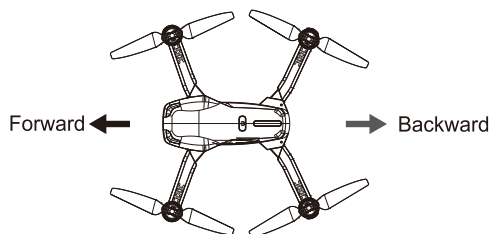
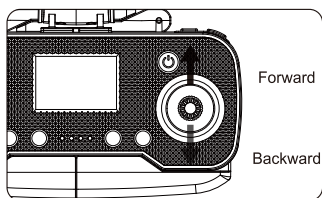
# FUNCTION INSTALLATION

## LEVER INTRODUCTION

1. Left (Throttle) Lever (The left lever controls the flight height and left and right directions)



1. Right (Direction) Lever (The right joystick controls the forward, backward, and Left/right-side flight directions)

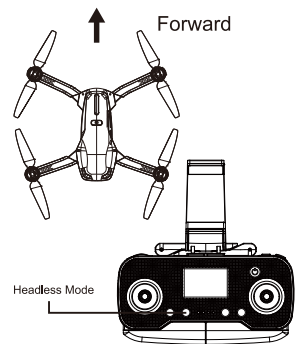
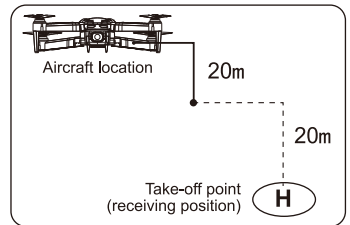


## INTRODUCTION TO GPS FIXED POINT

1. It will take 1-3 minutes in the open and unshielded environment after the successful frequency matching of the aircraft. The two lights in back of the aircraft flash slowly. When the two lights in back turn on normally, it means that GPS fixed point is successful. Push left stick to bottom left corner and push right stick to bottom right corner at the same time (↙ ↘), the blades will rotate. Push the throttle stick up then the aircraft will take off.
2. The lights of the aircraft flash three times and then normally turn on for 2 seconds, it means the current position receiving signal interference. It requires to replace another flying environment.
3. Press the GPS / Optical Flow Switch button, you will heard "DI" sound from the remote control, it means that the aircraft enter indoor optical flow mode. Press the button again, you will heard "DI DI" sounds, it means that the aircraft enter outdoor GPS mode.

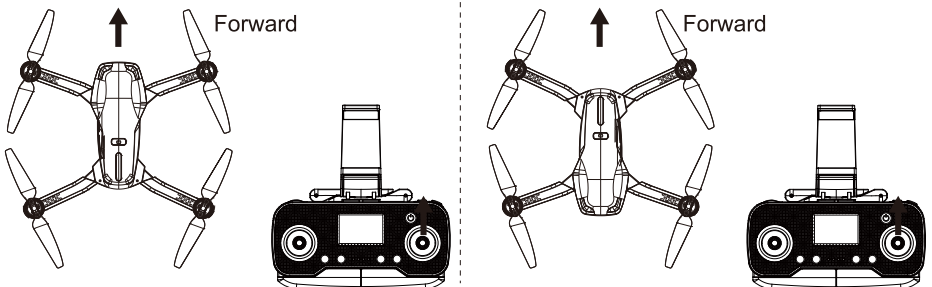
## ONE KEY RETURN

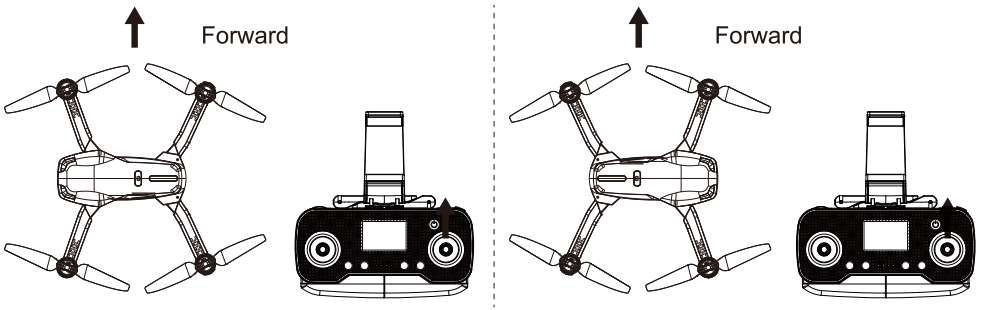
- ① Proactive return: when you press and hold the one key return button, you will hear the "DI" "DI" sound from the remote control and the aircraft will start to return to the take-off point for landing. At the end of one key return, the remote control will automatically disarm the alarm after about 10 seconds.
- ② Automatic return: When the aircraft is detected with a first level low power, the lights of the aircraft will flash slowly. And if the altitude of the aircraft is 20 meters lower than the ground, the aircraft will automatically rise to the altitude of 20 meters above the ground and automatically return to within 20 meters of the take-off point radius while the altitude will automatically fall to about 20 meters above the ground.
- ③ Forced return: When the aircraft is detected with the second level low power and the altitude is 20 meters lower than the ground, it will be forced to rise to the altitude of 20 meters above the ground, then return to the starting position and automatically land on the ground, finally stop flying. (Note: When it is locked during forced return, the remote control will be failed working.)



## HEADLESS MODE

1. When you long press (hold) the headless mode button of the remote control, the wireless end of the remote control is in front of the heading with the remote control delivery sound of Di, it means the headless mode starts.
2. When you exit the headless mode, long press (hold) the headless mode button again with the remote control delivery sound of Di, it means the headless mode exit.





As shown in the figure, in the headless mode, no matter where the aircraft is in the front, press the headless mode of the remote control, the front of the aircraft will automatically lock the course order to locate the front, rear, left and right directions of the aircraft without the need to locate the aircraft itself.

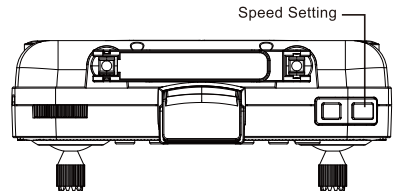
## SPEED

Press the speed setting button to switch speed level:

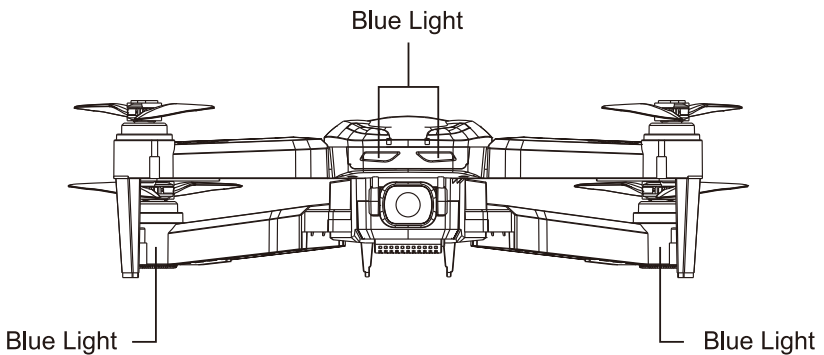
"Di" one sound : low speed mode

"Di-Di" two sounds : middle speed mode

"Di-Di-Di" three sounds : high speed mode



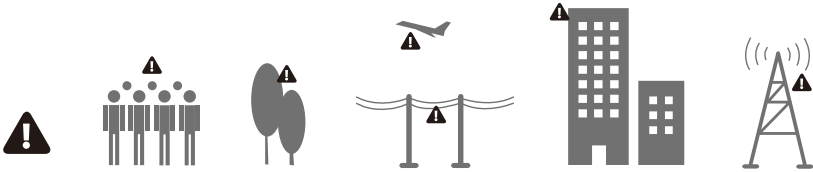
## LIGHT





# SAFE FLIGHT GUIDE

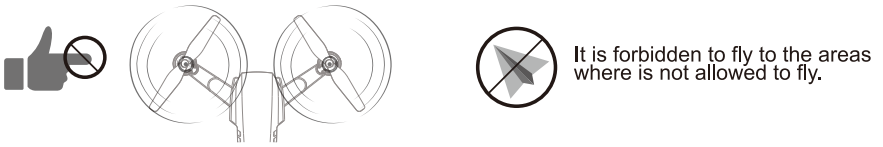
It is recommended to fly under the following conditions:



It is recommended to avoid flying over or near people, trees, high-voltage power lines, buildings, airports or water, as well as high-intensity power or base stations, because it may affect the compass on the aircraft.



Do not use this product under severe weather conditions, such as rain, snow, fog and wind speed exceeding 10m / s or 22mph.



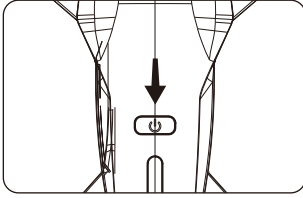
Keep away from rotating blades and motors.



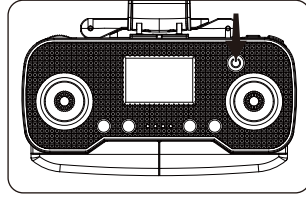
It is very important to understand safety guidelines for safe flight. Please read them carefully before flight.

# PREPARATION BEFORE TAKE-OFF

## FREQUENCY CONNECTION

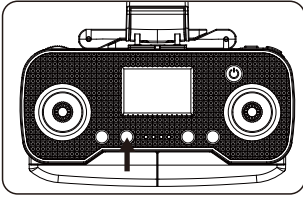


Press the Power ON/OFF button, the lights of aircraft will flash rapidly.

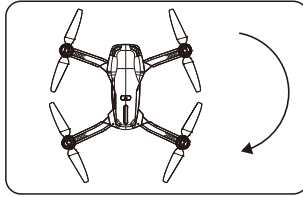


Turn on the power switch of the remote control and hear two sounds of "DI" and "DI". At this time, the indicator light of the remote control is long bright. The front light of the aircraft is long bright, and the rear light is flashing slowly, it means that the frequency is completed.

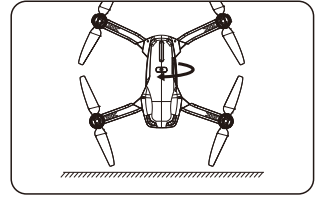
## GEOMAGNETIC CORRECTION



Long press the correction geomagnetic button, you can hear "DI" sound and the front and rear lights flash quickly.

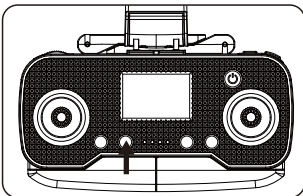


Pick up the aircraft horizontally and clock-wise rotate it until hear "DI" sound. The lights of aircraft will flash.



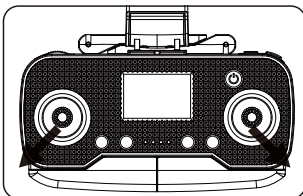
Camera facing the ground clockwise rotates until hear "DI" sound. The front light of the aircraft stays on, and the rear light flashes slowly. The geomagnetic correction is successful.

## GYRO CORRECTION



Press the gyro correction and hear "DI" sound, the flashing lights will be persistent on. The gyroscope correction is successfully.

## TAKE-OFF

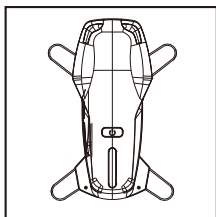


After the above operations are completed, the aircraft will automatically search for GPS signal and make sure sufficient GPS signal have been received, the lights of aircraft will be normally on. Push left stick to bottom left corner and push right stick to bottom right corner at the same time (↙↘), the aircraft will take off.

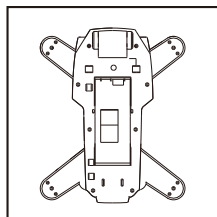
# PROBLEM SOLVING GUIDE

problems	causes	solutions
Power off of the remote controller	1 The switch is on the position of "OFF"	1 Move to the position of "ON"
	2 Batteries in wrong polarity	2 Checking and correct the polarity of batteries
	3 Power off	3 Checking and change the new batteries
Remote controller has no response	1 No turning on the energy	1 Move to the position of "ON"
	2 No connecting the aircraft' s batteries	2 Checking and correct connect the power on
	3 Strong wind	3 Please play indoors where is spacious.
Aircraft can not be up	1 Rotor speed is too low	1 Push up the accelerator
	2 The aircraft' s power is not enough	2 Please make the aircraft' s batteries fully charged
Out of control	Accelerator operated no return the aircraft upward	when you do the frequency modulation, the accelerator operated should be back to the original position
	Out of the control distance	Please play within the effective distance
Excessive landing	The speed of accelerator pulling is too fast.	Please pull the control lever slowly, maintain a smooth landing.

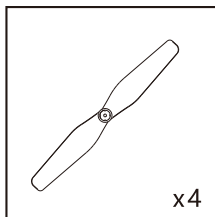
# POSSIBLE ACCESSORIES



01. upper body

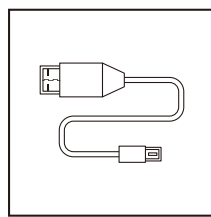


02. lower body

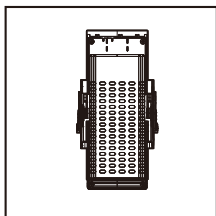


x4

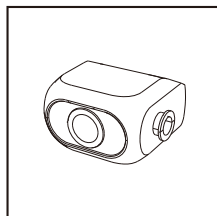
03. balde



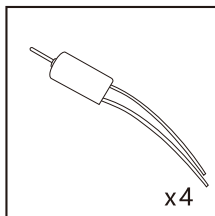
04. USB charge line



05. battery

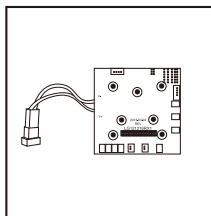


06. camera

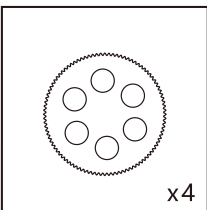


x4

07. motor

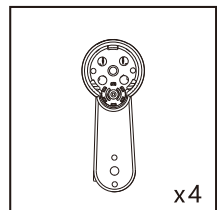


08. receiver board



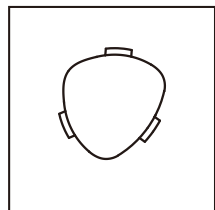
x4

09. gear



x4

10. axis



11. lampshade

# FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in the portable exposure condition with restriction.

FCC Radiation Exposure Statement: (only for the drone FCC ID:2AWZK-210601)

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.