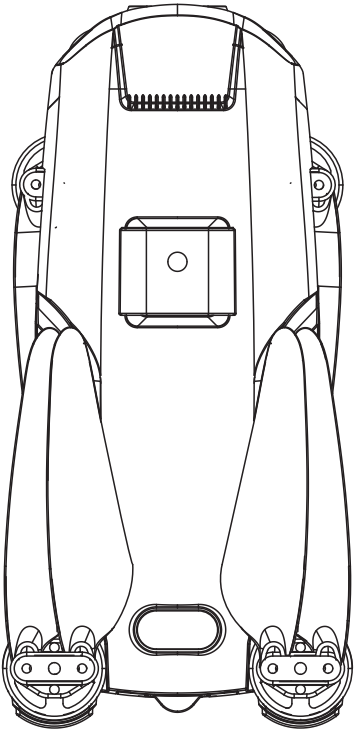
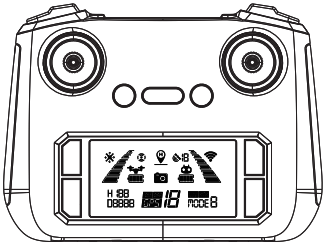
AGES 14+

Digital Version

GPS 4-AXIS AEROCRAFT 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

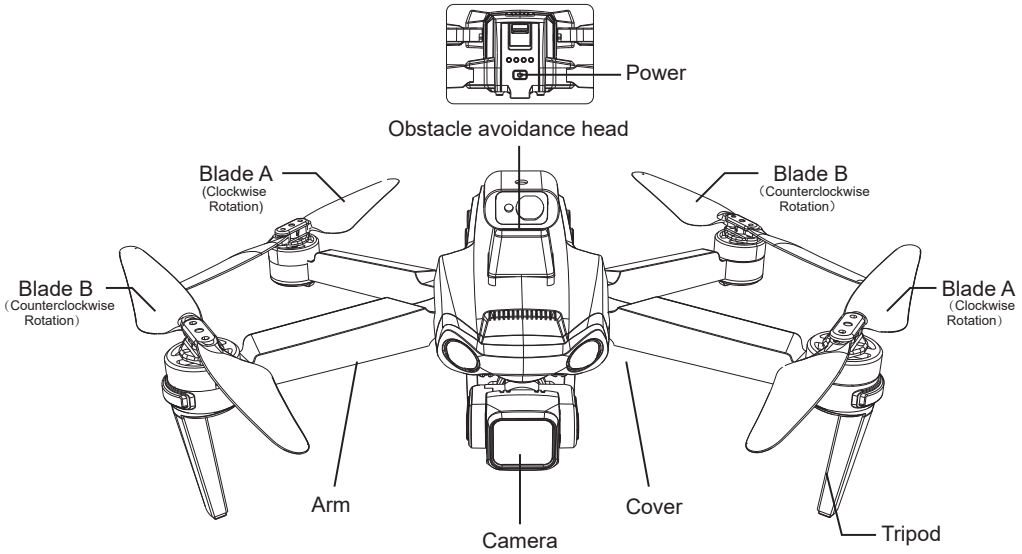
1.Please use the original special charger for charging. Do not use damaged or other brand chargers.
2.Do not charge batteries that are swollen, leaking or damaged.
3.Do not overcharge the battery. Once the battery is fully charged, please dial out the charger.
4.Do not charge on the surface near inflammables (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 ℃ and 40 ℃.

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

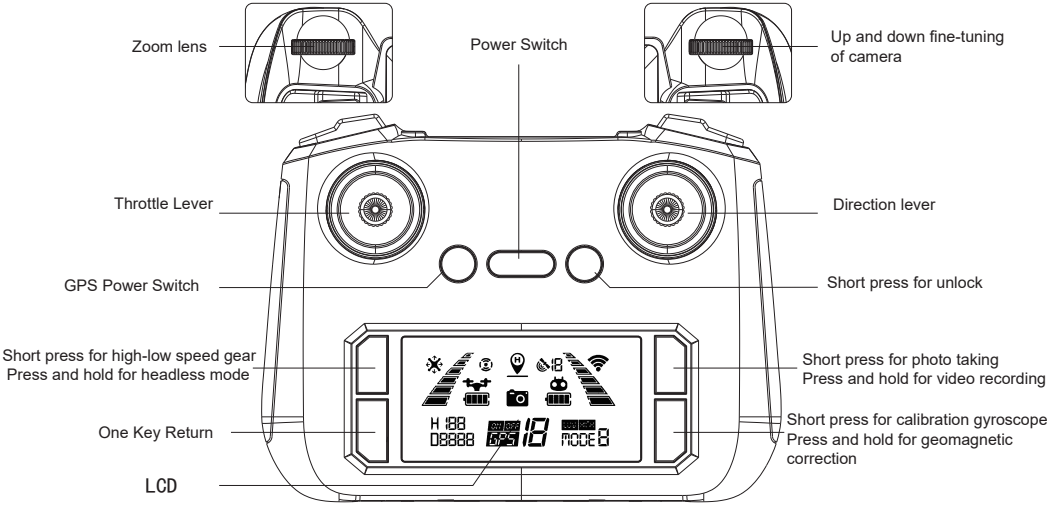


NOTE

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

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

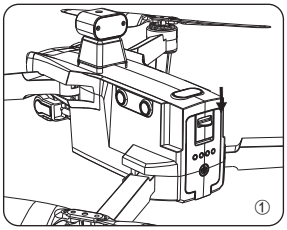
REMOTE CONTROL INTRODUCTION



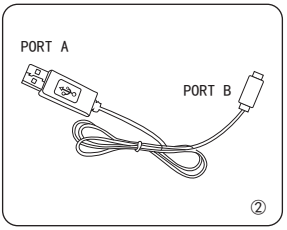
Low power indication: when the energy is lower than 3.7v, there is the warning toneof "Di, Di", it means user needs to charge the batteries.

CHARGING AND BATTERY INSTALLATION

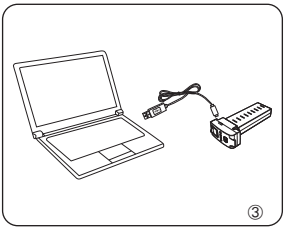
CHARGING



1.Push the battery button upward to remove the battery from the aircraft. (as shown in Figure 1)



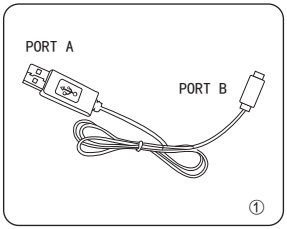
2.Connect the original charging line for charging. (as shown in Figure 2)



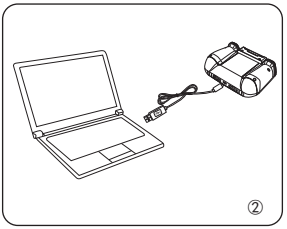
3.Plug in the power adapter (Figure 3)

As shown in the figure above, connect the interface A to the USB interface of the computer after disconnection, and plug in with the smart light 1/4 on and flashing, means that it is charging. After being fully charged, the light will be 4/4 on for a long time, and the charging time is about 300 to 350 minutes.

INTRODUCTION TO THE REMOTE CONTROL CHARGING



1.Connect the original charging line for charging. (as shown in Figure 2)



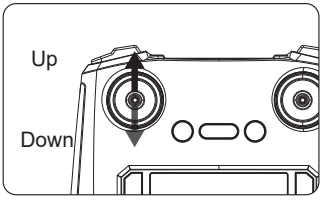
2.Plug in the power adapter (Figure 3)

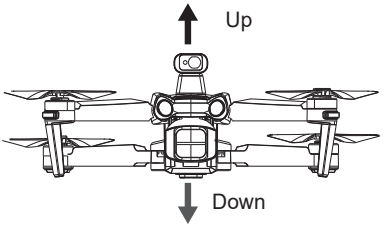
As shown in the figure above, after disconnect, interface A connects to the computer USB or mobile phone charger. At this moment, the LCD screen of the remote control lights on and flashes, and the light will be off when the battery is full charged. The charging time is about 240 to 300 minutes.

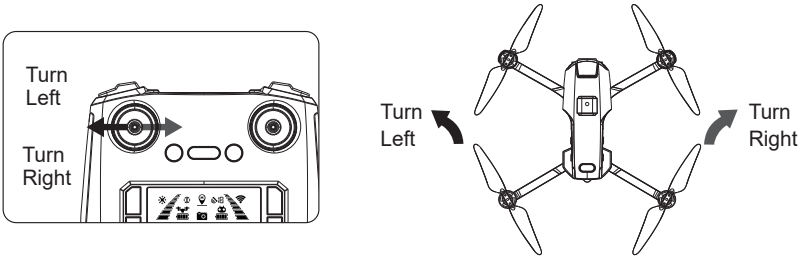
FUNCTION INSTALLATION

LEVER INTRODUCTION

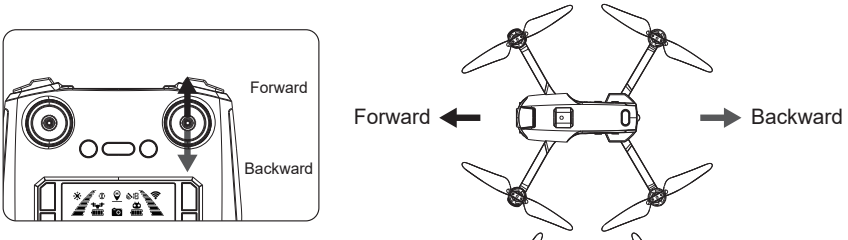
1.Left（Throttle）Lever (The left lever controls the flight height and left and right directions)

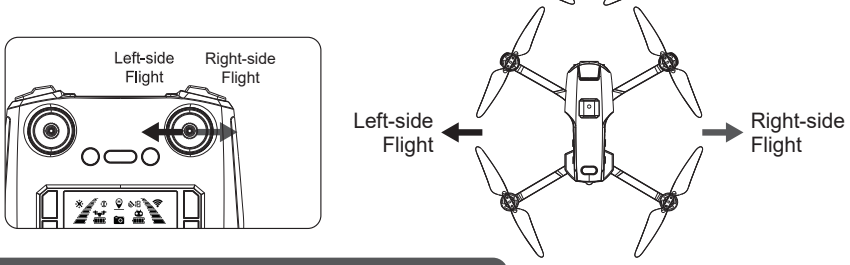






2.Right（Direction）Lever (The right joystick controls the forward, backward, and Left/right-side flight directions)





INTRODUCTION TO GPS FIXED POINT

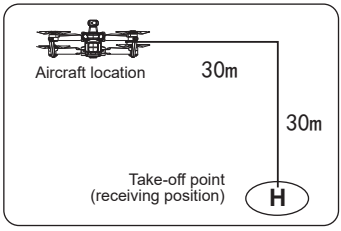
1. It will take 1-3 minutes in the open and unshielded environment after the successful frequency matching of the aircraft. The two lights in front of the aircraft are always on, and the back, Two lights flicker slowly. When the latter two lights turn on normally, it means that GPS fixed point is successful. At this time, press one key to unlock, The plane will take off when the blades turn slowly and the throttle is pushed up.
2. The front and rear lights of the aircraft flash back and forth, it means the current position receives signal interference and needs to be replaced the environment.
3. Press the GPS button, you will hear the “DI” “DI” sound from the remote control,It means enter the indoor mode, and the two lights behind the aircraft flash slowly.

ONE KEY RETURN

①Proactive return: when you press 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.

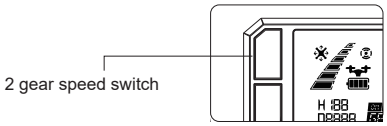
②Automatic return: When the aircraft is detected with a first level low power, the red light behind the aircraft will flash slowly. And if the altitude of the aircraft is 30 meters lower than the ground, the aircraft will automatically rise to the altitude of 30 meters above the ground and automatically return to within 20 meters of the take-off point radius while the altitude will automatically fall to about 20 meters above the ground.

③Forced return: When the aircraft is detected with the second level low power and the altitude is 30 meters lower than the ground, it will be forced to rise to the altitude of 30 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.)



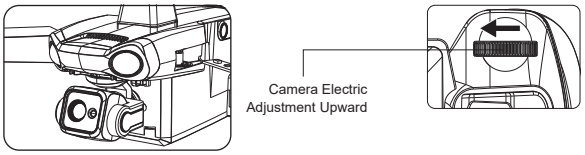
SPEED

Sliding the speed switching wheel on the remote control to control the flight speed.
（One sound of Di is medium speed, two sound of Di is fast speed, and the default is slow speed after startup.）。

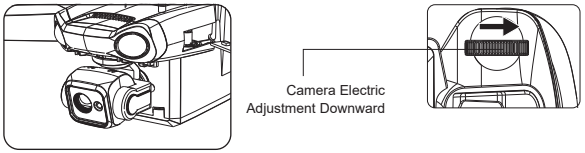


ELECTRICALLY ADJUSTABLE CAMERA

1.In flight, sliding the electric adjustment wheel on the remote control to the left to adjust the camera angle upward.

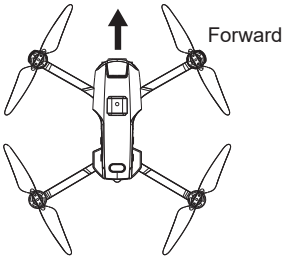


2.In flight, sliding the electric adjustment wheel on the remote control to the right to adjust the camera angle downward.



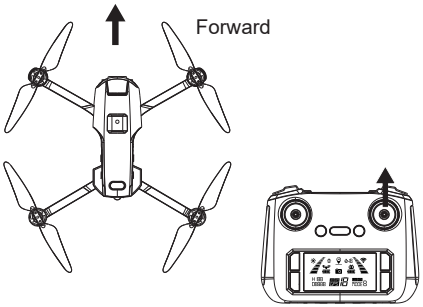
Note: Please do not adjust the camera manually after the power on and the camera automatically calibrated.

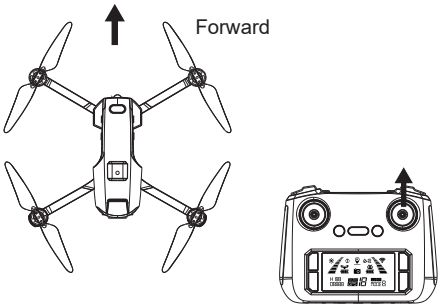
HEADLESS MODE

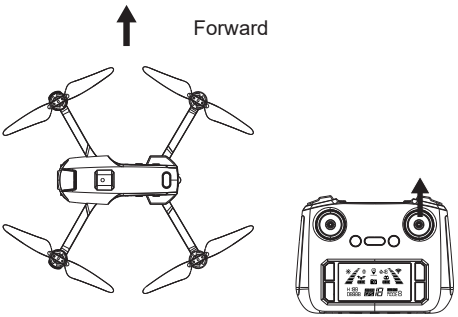


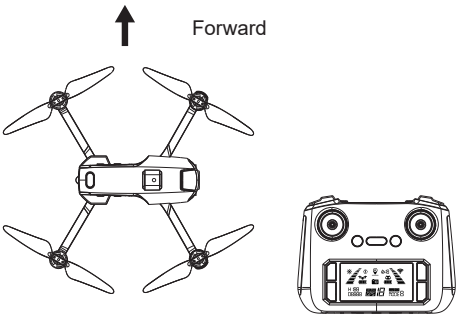
1.When you press and hold the headless mode button of the remote control, the wireless end of the remote control is in front of the heading with the remote control delivery sound of Di, it means the headless mode starts.

2.When you exit the headless mode, press and hold the headless mode button again with the remote control delivery sound of Di, it means the headless mode exit.



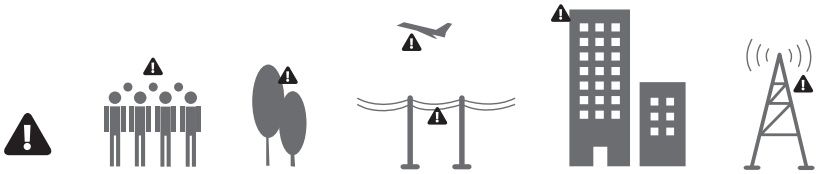






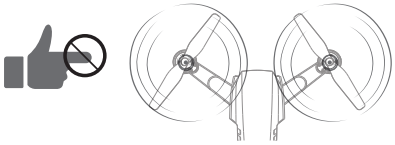
SAFE FLIGHT GUIDE

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.



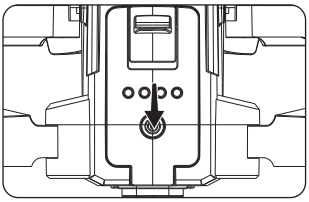
It is forbidden to fly to the areas where is not allowed to fly.

Keep away from rotating blades and motors.

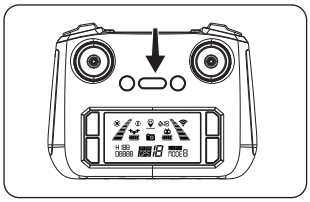
It is very important to understand safety guidelines for safe flight. Please read them carefully before flight.

PREPARATION BEFORE TAKE-OFF

FREQUENCY

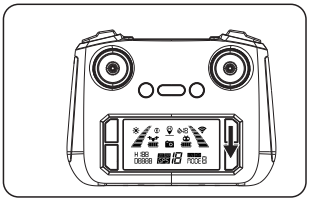


Short press the power switch, release it and then long press the aircraft switch for about 3 seconds, and the light continues to flash rapidly for 3 seconds.

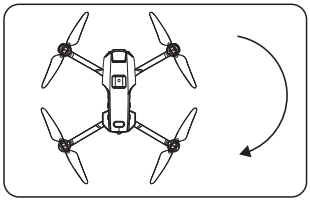


Turn on the power switch of the remote control and after 1 to 2 minutes you'll hear two sounds of "DI" and "DI". At this time, the indicator light of the remote control is long bright.The front light of the aircraft is long bright, and the rear light is flashing slowly, it means that the frequency is completed. After the frequency connection is successful, connect the remote control data cable, plug in the mobile phone charging port, open the app screen, the connection is successful.

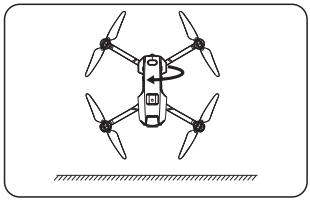
CORRECTION GEOMAGNETIC



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

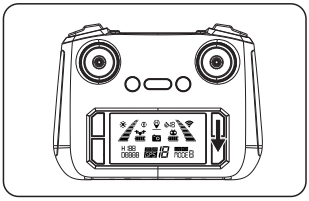


Pick up the aircraft horizontally and clockwise rotation until hear "DI" sound. The front light of the aircraft flashes quickly and the rear light stays on.



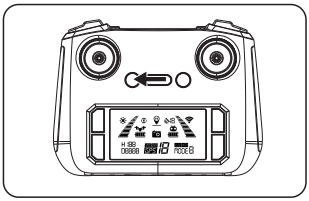
Camera facing the ground clockwise rotates until hear "DI" sound. The front light of the aircraft stays on, and the rear light flashes slowly. The geomagnetic correction is successful.

CORRECTION GYRO



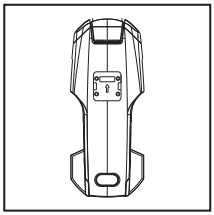
Short press the correction gyro button,and hear "DI" sound. The front and rear lights change from fast flashing to the front light stays on,and the rear lights flashes slowly. The gyroscope is calibrated successfully.

TAKE-OFF

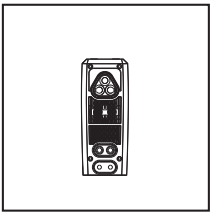


Short press for unlock , the aircraft automatically searches for GPS signals and confirm that sufficient GPS signals have been received, At this time, short press the one key unlock button to unlock , and the aircraft can to take off.

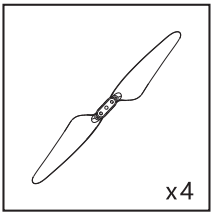
PRODUCT LIST



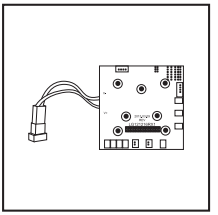
01.upper body



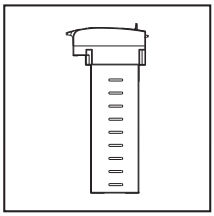
02.lower body



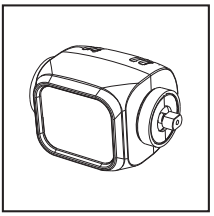
03.balde



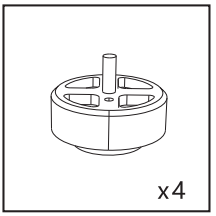
04.receiver board



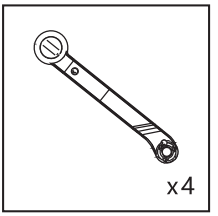
05.battery



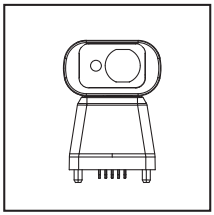
06.camera



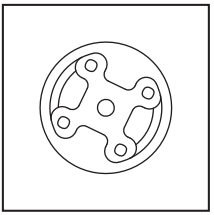
07.Brushless motor



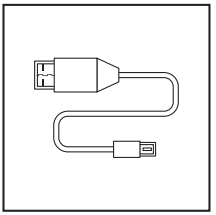
08.axis



09.Obstacle avoidance head



10.motor cover

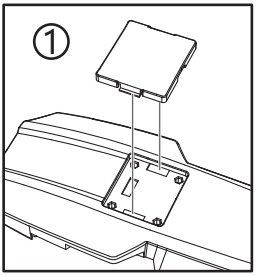


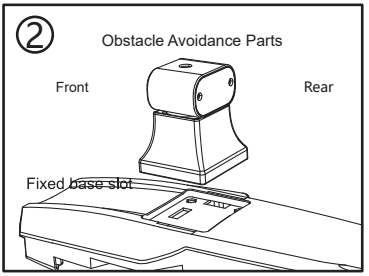
11.USB charge line

OAS Component Installation

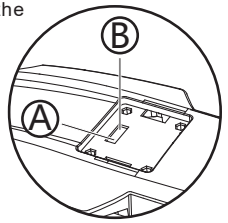
Obstacle Avoidance

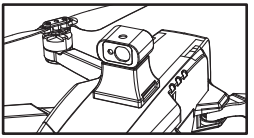
Obstacle avoidance technology, as a guarantee to increase the safe f light of the aircraft, also changes rapidly with the development.The aircraft collects the information of the surrounding environment through its sensors and measures the distance during the flight, and make the corresponding action instructions to achieve the function of Obstacle Avoidance.





Assembly Diagram





— Completion —

Assembly of obstacle avoidance parts

1. Insert the signal plug wire (4PIN) of the obstacle avoidance head parts into Seat Ⓐ on the left side of the aircraft.direction cannot be inserted reversely.Please note that the corresponding direction cannot be inserted reversely.
2. Insert the steering gear plug wire (5PIN) of the obstacle avoidance head parts into Seat Ⓑ on the right side of the base slot. Please note that the corresponding direction cannot be inserted reversely.
3. Insert the parts into the buckle of the main body of the aircraft, and fix the locking screw on the main body.

⚠ NOTE:

1. Install the obstacle avoidance head before starting the aircraft.
2. It is forbidden to manually break the angle of the obstacle avoidance head, as the vulnerable parts will break down when they are broken back and forth!
3. Please be careful plug correctly during assembly, so as to protect the obstacle avoidance parts.

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.

This device 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.