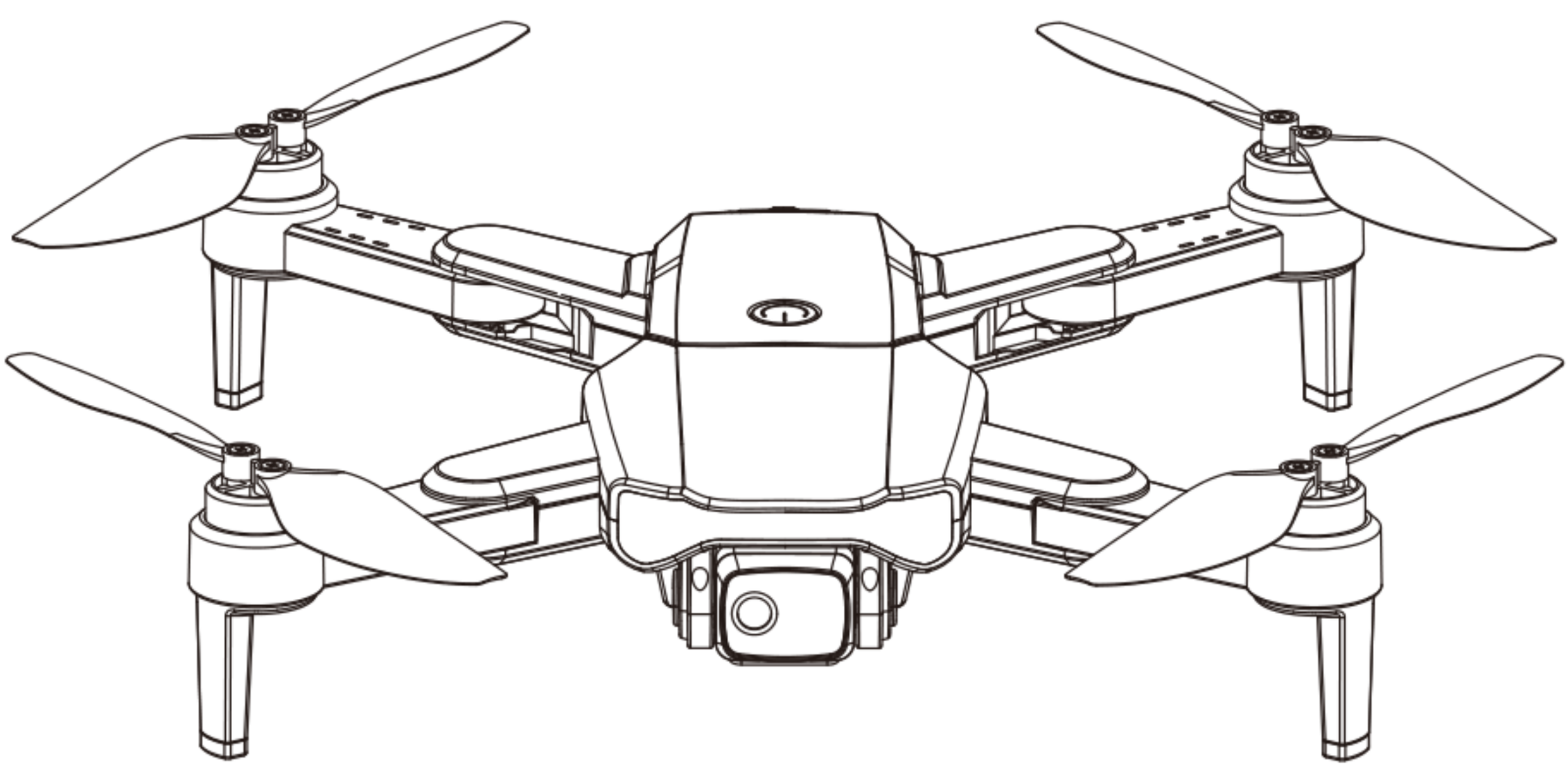
AGE:14+

GPS FOUR-AXIS AERIAL PHOTOGRAPHY DRONE OPERATING INSTRUCTIONS



Safety precautions:

1 in order to ensure the electromagnetic environment requirements of aviation radio station (station), it is prohibited to use various model remote controllers in the area with the center point of airport runway as the center point and the radius of 5000M. During the period when the relevant departments of the state issue radio control orders and regional areas, the use of model remote controllers shall be stopped as required. Please fly in warm, clear, windless weather. Do not fly in severe weather conditions such as overheating, overheating, strong wind, rainstorm, etc. Please choose indoor or outdoor open area, and keep a safe distance from people, pets, empty overhead wires and other obstacles. Make sure that no other uses the same frequency. Do not let the aircraft out of sight.

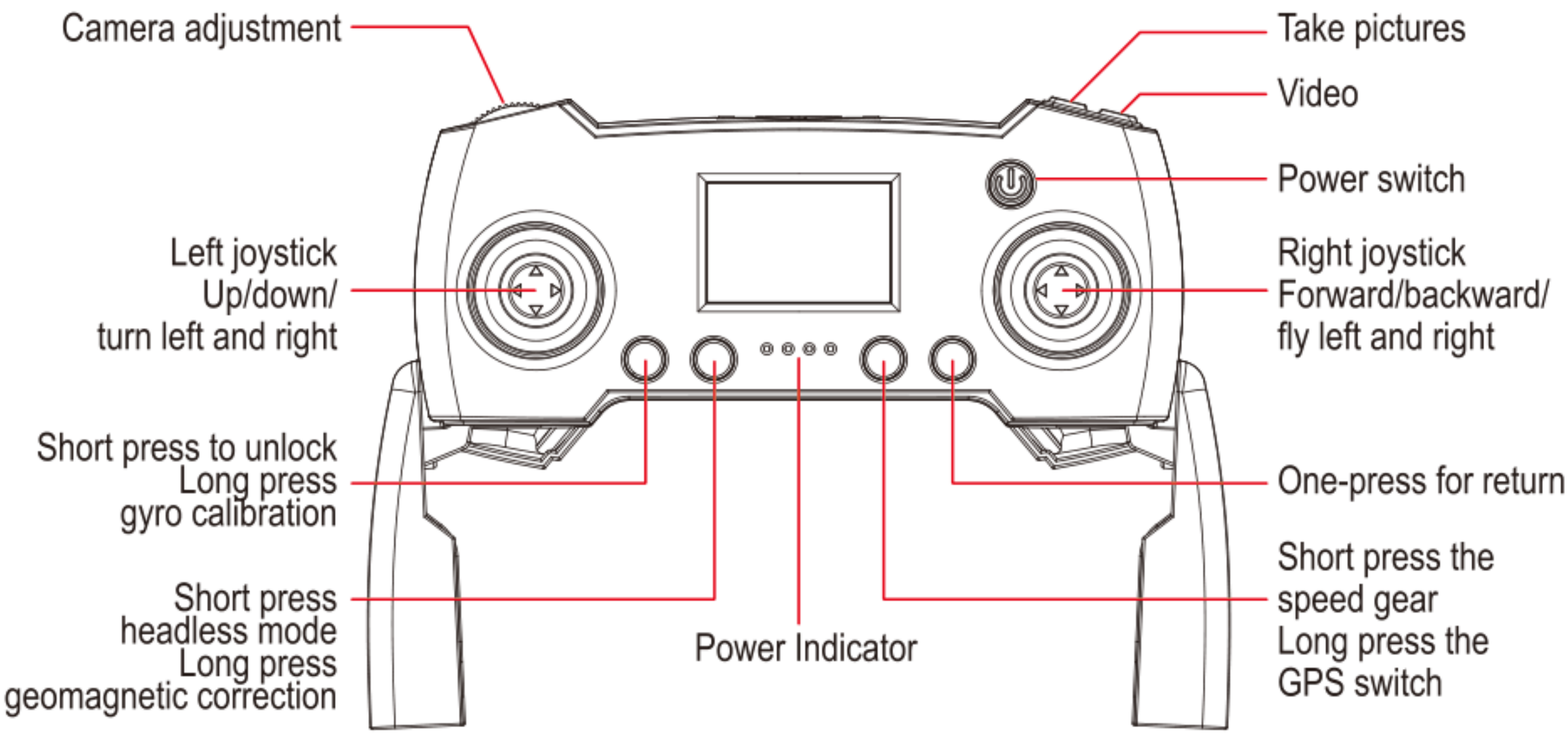
2 after the aircraft is started, please do not contact the high-speed rotating part of the aircraft and keep a distance from the high-speed rotating propeller to avoid the risk of strangulation. (Including gears, rotors, etc.)

4.During and after the use of the aircraft, the battery and motor will generate high temperature. Please do not touch it to avoid the risk of scalding.

4 do not look directly at the light beam of the LED to avoid affecting the eyes.

Warm Tip: It is suggested that beginners practice flying at low altitude in an open and unmanned place for about 3 days, and then fly to high altitude after being familiar with flying

Remote control function key and name Description:



Instructions for remote control handle/mobile phone rack:

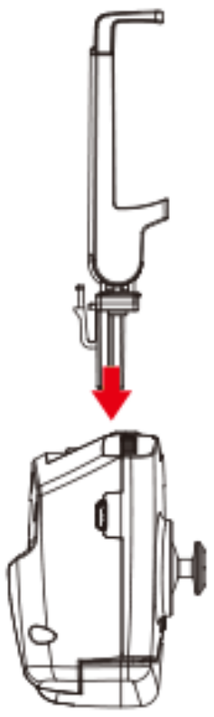


Figure 1

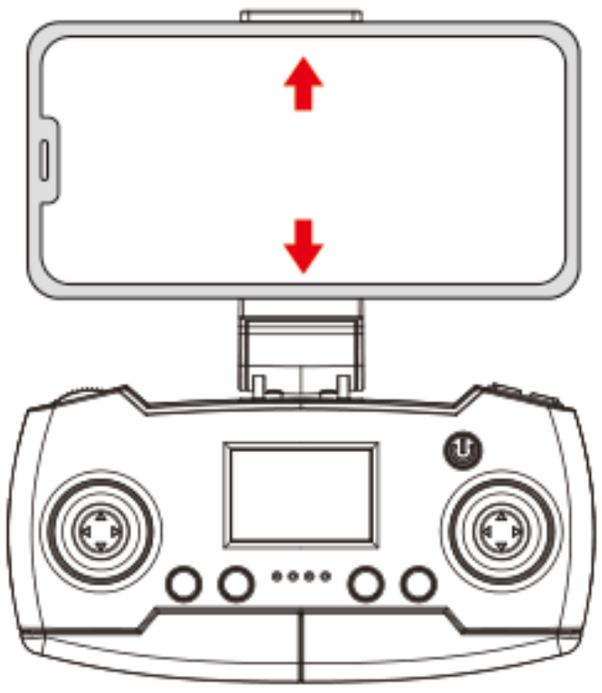


Figure 2

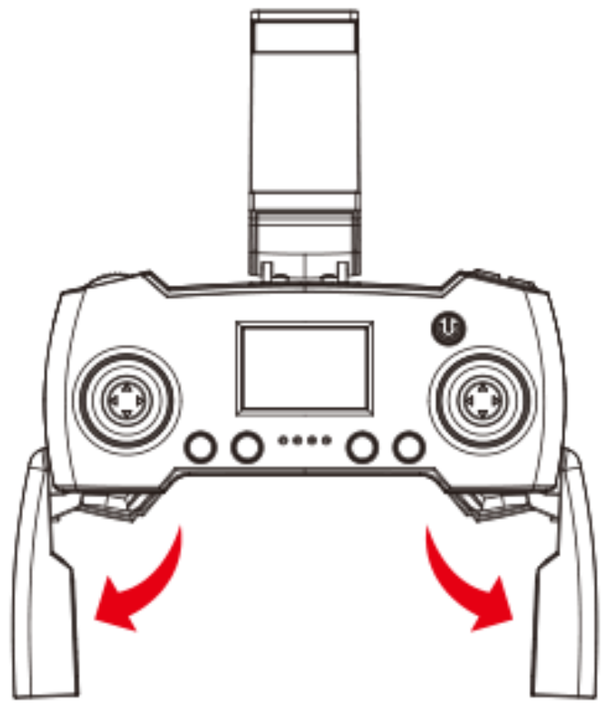
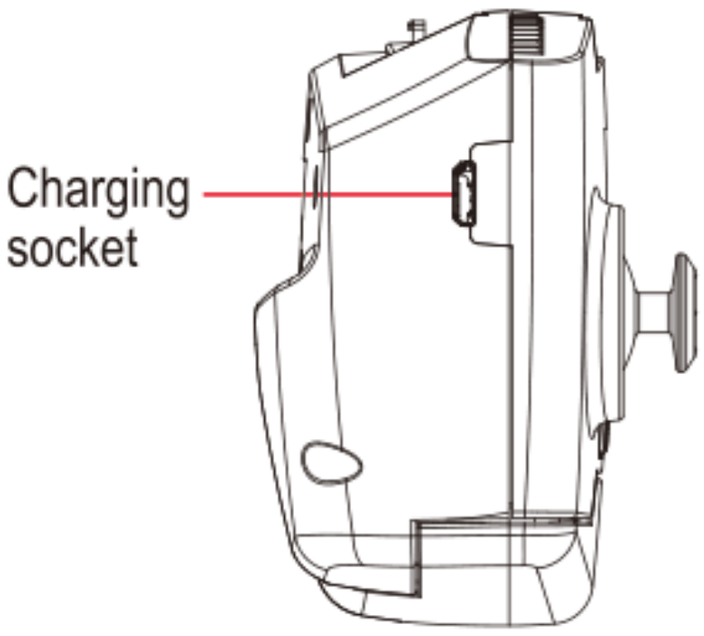
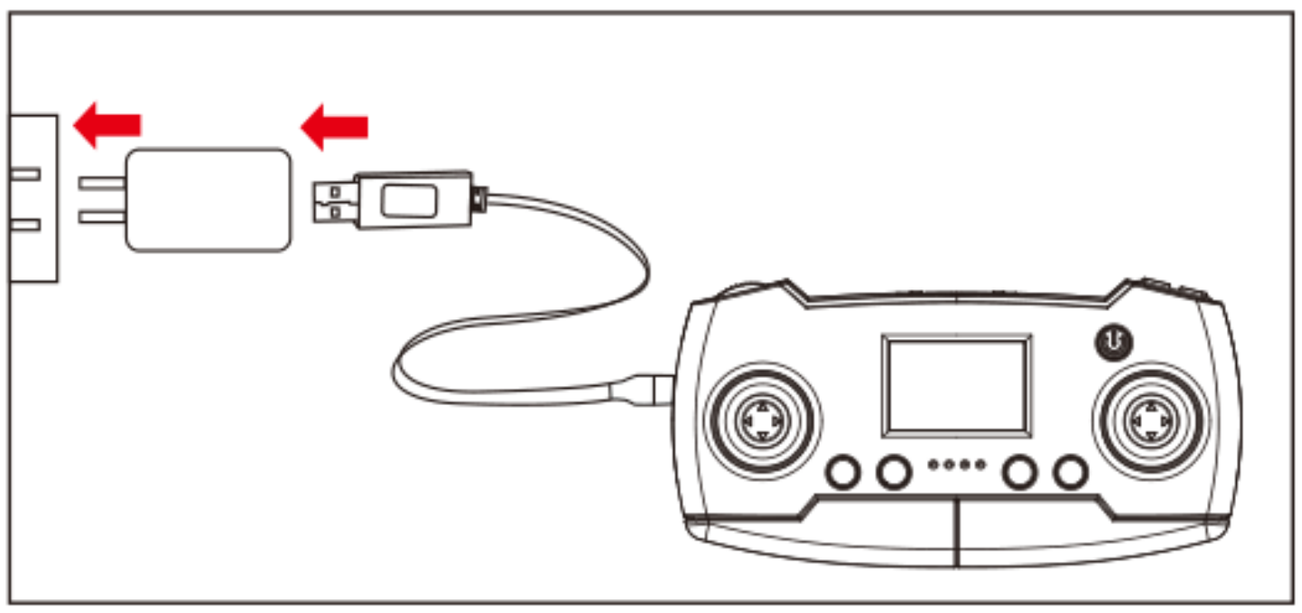


Figure 3

Mobile phone holder: Install the mobile phone holder into the remote control (Figure 1), and stretch it upward to place the mobile phone (Figure 2).
Remote control handle: Pull down the bottom handle of the remote control from the middle position and rotate it to place.

Instructions for charging controller:





Insert the charging plug of the charging wire into the charging socket of the remote controller, and then connect the USB charger plug to the computer or mobile phone charger for charging. When charging, the charging indicator lights up, and the indicator lights out after full charging. (Charging time is about 40 minutes)

Note: If the charge indicator does not change during charging, this indicates that the battery is fully charged and does not need to be recharged.

Pre-flight preparation

flight environment



indoor: Spacious space away from obstacles, crowds or pets are preferred.



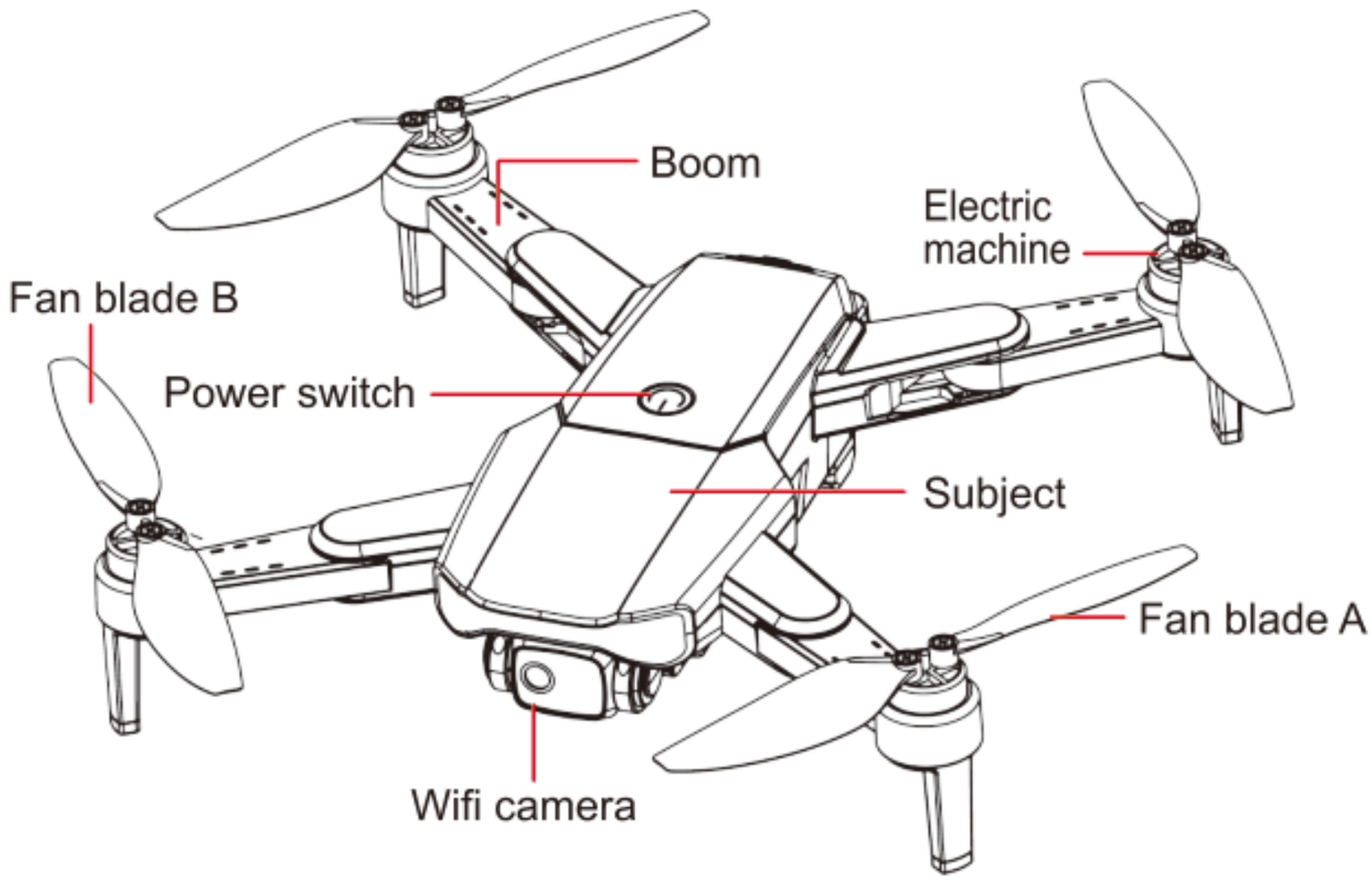
Outdoor: Sunny, windy and sunny weather are preferred.

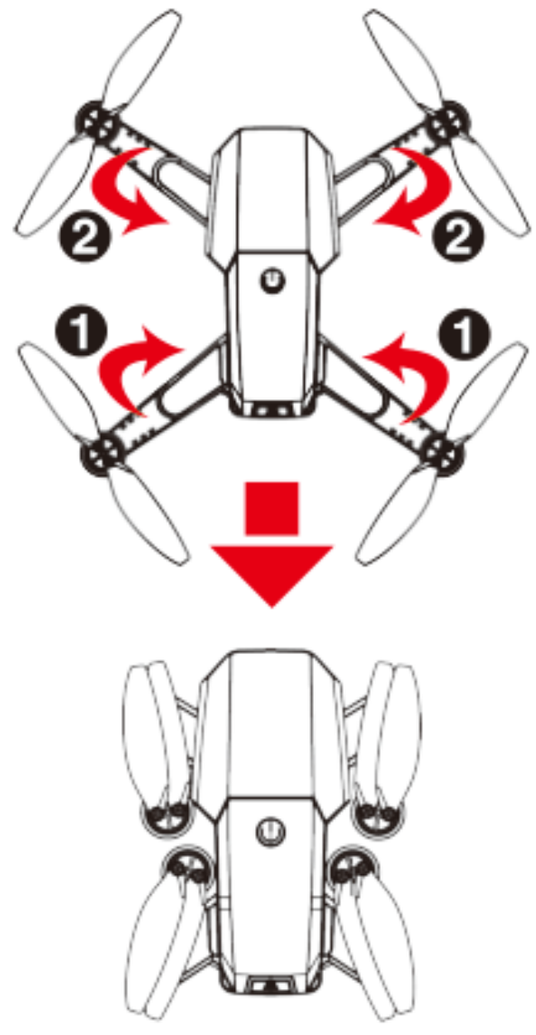


Please keep the UAV in line of sight and away from obstacles, high-voltage cables, trees and personnel during the flight.



Do not fly in extreme environments, such as heat, cold, strong wind or heavy rain.





Blade replacement:

1. The fan blade to be replaced must be replaced corresponding to the relative position on the machine. Fan blade A needs to be installed at position A, and fan blade B needs to be installed at position B. If fan blade is replaced incorrectly, it can not be controlled.
2. When flying, the fan blade A rotates clockwise, and the fan blade B rotates counterclockwise.

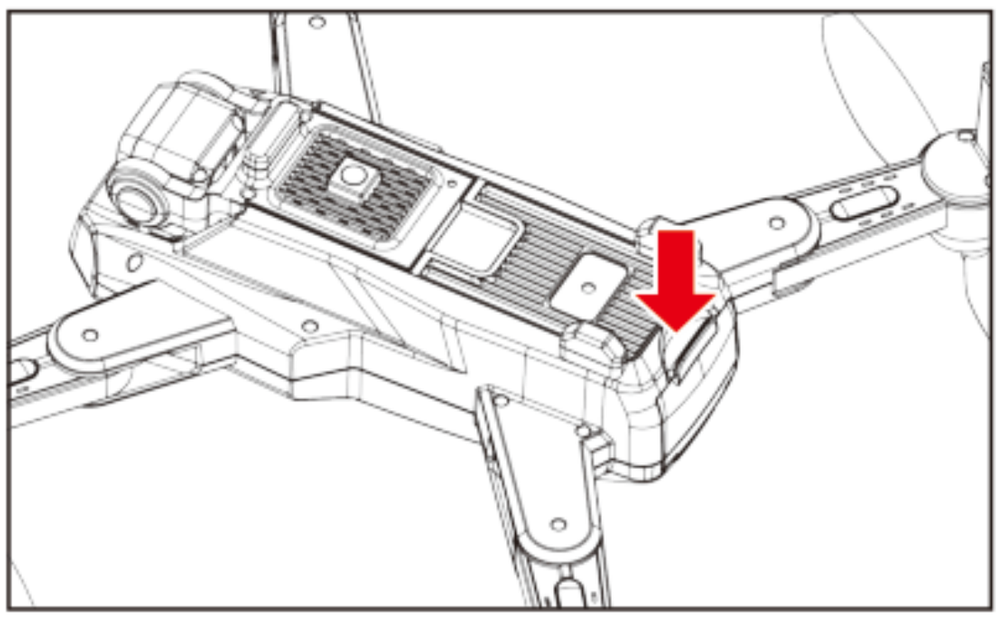
1. Important note

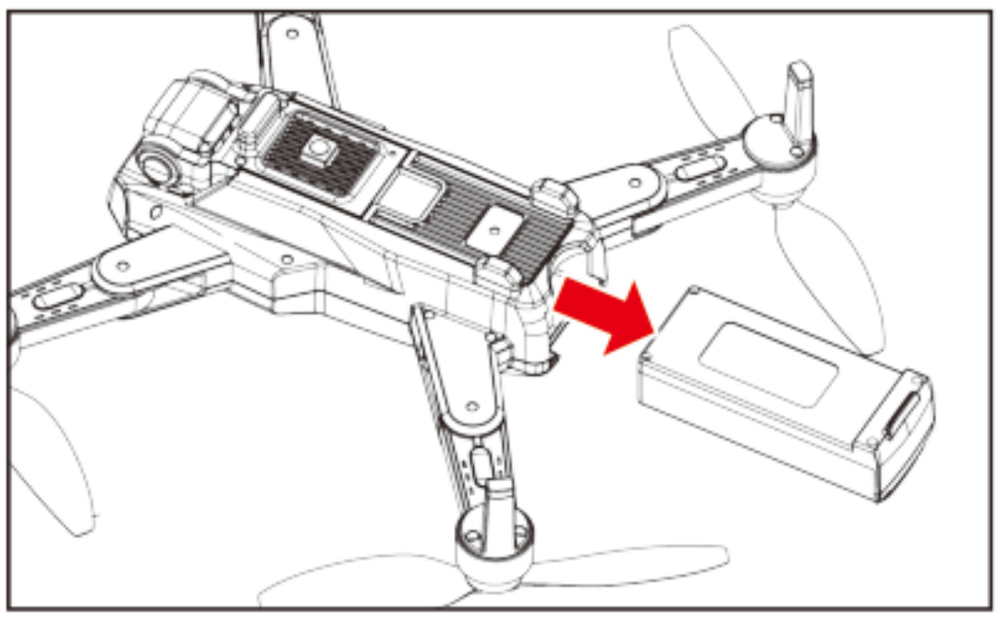
This product is not a toy, wrong use will cause damage.
Please follow the instructions before using this product. Do not disassemble the product yourself. Otherwise, the manufacturer is not responsible for any damage.

2. Safety instructions

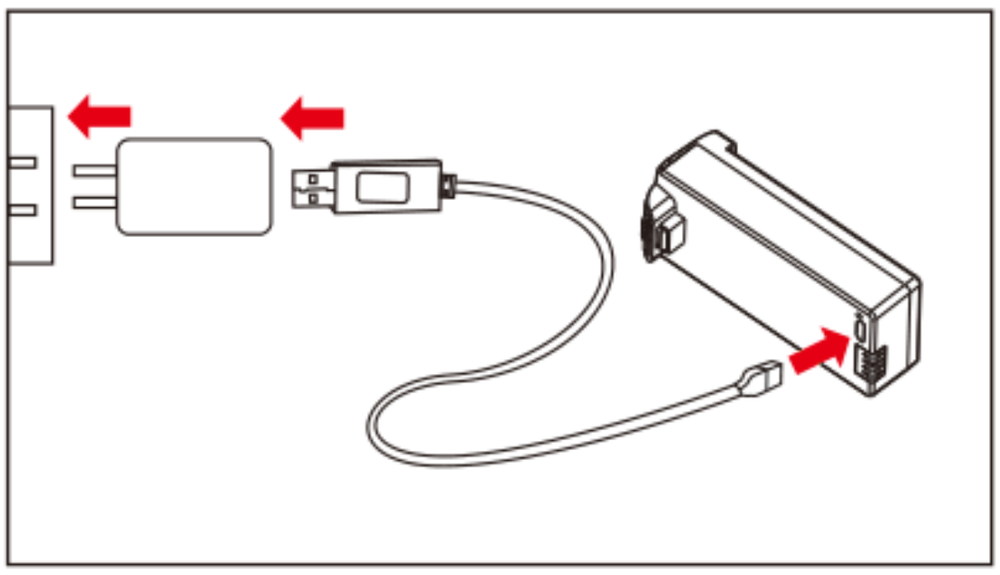
Warning: It is necessary to fly in a safe area or away from others, and do not control the aircraft above a dense crowd. Due to the pilot's operation error or wireless interference in the operation process, accidents and failures are easy to occur, and damage or injury to the crowd is easy to occur.
Prohibition: Especially for indoor and outdoor flight, please keep away from obstacles This product is suitable for both indoor and outdoor flight (wind strength not more than 4). Please choose a place that is free from obstacles, crowds and pets, passers-by, such as, heating source, heat source, electric wires or electronic power source will not collide with the drone, landing, entanglement, or cause fire, electrocution and damage to life and property.
Warning: As this product is mainly suitable for people over 14 years old, it may be difficult to learn at first, we recommend you to ask an experienced pilot for guidance.

Instructions for charging drone lithium battery:





Take out the drone battery: press and hold the position shown by the arrow (Figure 1), and pull it back to take out the battery.



Battery charging steps:

Insert the USB Android head into the battery, connect the USB charger plug to the computer or mobile phone charger, the green light on the battery flashes when charging, and the green light is on when it is fully charged. (Charging time is about 360 minutes)

Note: If the battery is plugged into the charger, the green light on the battery does not flash, and there is no need to recharge it.

Pre-flight environmental requirements:

Please choose an open indoor or outdoor environment without rain and snow and wind force less than Level 4 to fly. Please stay away from people, trees, electric wires, tall buildings, airports and signal transmission towers when flying.

Drone flight tutorial:

Indoor mode tutorial:

1.Drones to frequency

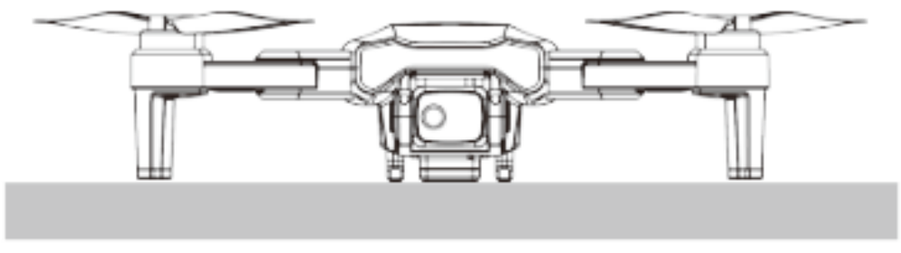
Put the drone battery into the drone battery slot in the correct direction, place the drone on a level ground and turn on the power, and then turn on the remote control. At this time, the remote control will beep three times, and the aircraft indicator will be on. Linking is successful.

2.Gyroscope calibration operation

Place the drone in a horizontal position, press and hold the "Gyro Calibration" button on the remote control (Figure 1). After pressing and holding for 3 seconds, the drone's light flashes quickly and becomes brighter, and the remote control emits a "Di" sound. , Which means the calibration is successful.



Figure 1



3. Turn on indoor mode

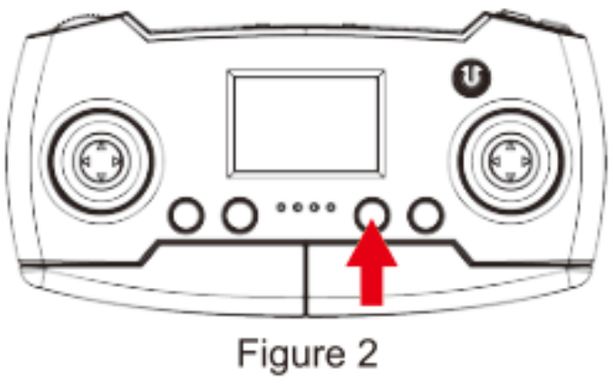


Figure 2

ong press the GPS switch button for 3 seconds (Illustration 2), the remote control beeps once,Turn on indoor mode, and the drone's front light flashes slowly at this time.

Outdoor mode tutorial:

1.Drones to frequency

Put the drone battery into the drone battery slot in the correct direction, place the drone on a level ground and turn on the power, and then turn on the remote control. At this time, the remote control will beep three times, and the aircraft indicator will be on. Linking is successful.

2.Gyroscope calibration operation

Place the drone in a horizontal position, press and hold the "Gyro Calibration" button on the remote control (Figure 1). After pressing and holding for 3 seconds, the drone's light flashes quickly and becomes brighter, and the remote control emits a "Di" sound. , Which means the calibration is successful.

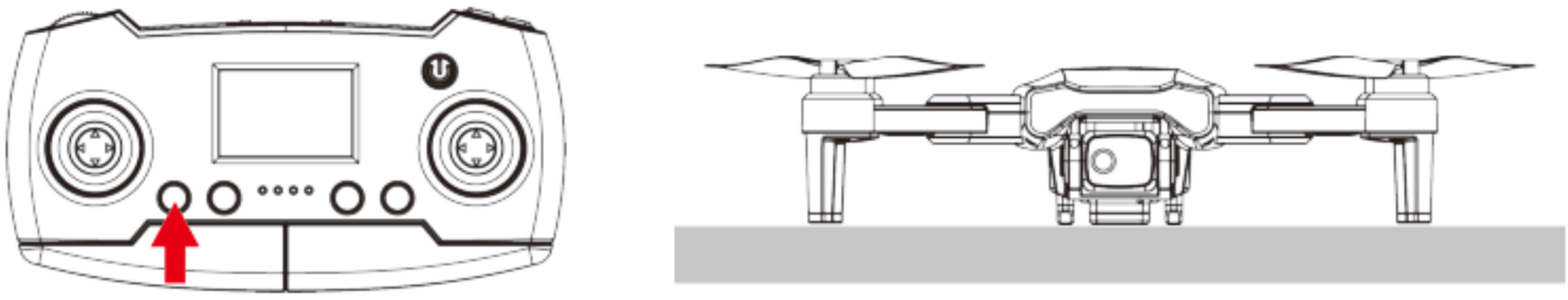


Figure 1

3. Calibrate geomagnetic operation

The geomagnetism is easily interfered by other electronic equipment, which will cause abnormal data to affect the flight. For the first use, you must perform a geomagnetism calibration, and calibrate the geomagnetism according to the following steps:

Long press the button on the remote control (Figure 2) for 3 seconds, the remote control emits a "Di" sound, and the UAV indicator light changes to fast flashing, and calibration is now possible.

Hold the UAV in your hand, press (Figure 3) to slowly rotate clockwise for 3 turns in the horizontal direction, the indicator light on the UAV changes from flash to slow flash, and the remote controller sends out a "Di" sound, indicating that the horizontal Calibration is successful. At this time, it can be carried out in the vertical direction (Figure 4). The nose slowly rotates clockwise for 3 turns downward, the indicator light on the rear of the UAV slowly flashes and becomes normally on, and the remote controller sends out a "Di" sound to indicate that the calibration is successful.

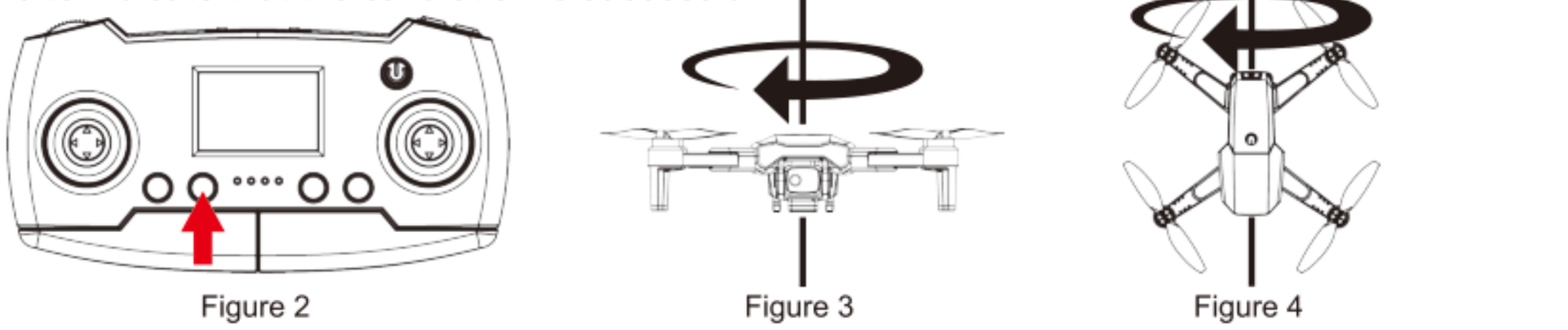


Figure 2　　Figure 3　　Figure 4

4.Search for GPS signals:

After the geomagnetic calibration is completed, place the aircraft on a horizontal surface, the aircraft will automatically search for satellites. After the aircraft, the green indicator light will change from a long light to a slow flashing, and the remote control will emit a "Di" sound to indicate successful search. At this time, press the remote control "Unlock button" (Figure 5) can fly.

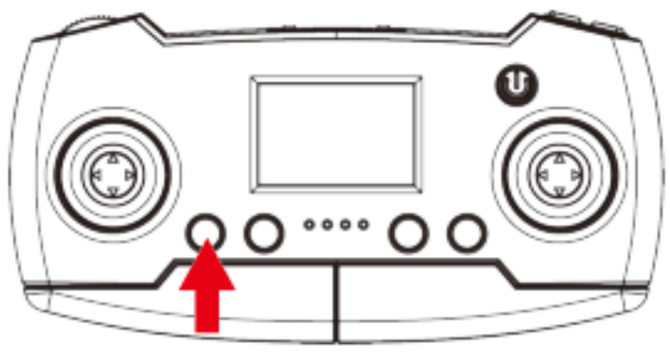


Figure 5

Special Note:

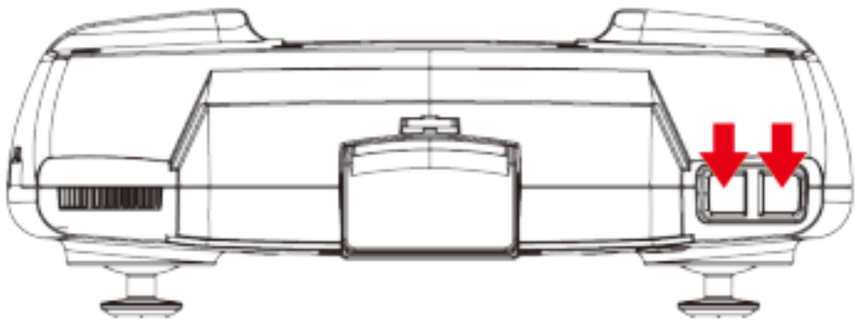
1. Please ensure that the take-off environment is an open outdoor environment, and the satellite signal before take-off is greater than 9 stars.
2. The latitude and longitude of each region are different. New customers must calibrate once. For example, the difference between Guangdong and Beijing is 28 degrees. Therefore, non-calibration means forward and backward flight instead of straight flight. Calibration is for the accuracy of the barometer to measure altitude.

Basic flight:

Basic flight steps:

1. The remote control and the drone are coded, and the drone is initialized.
2. Geomagnetic calibration. (No need to calibrate again at the same place)
3. Connect the mobile phone Wi-Fi to the mobile phone and open the mobile APP.
4. After the aircraft is calibrated, wait for the satellites to be received, usually 60-80 seconds (above 9 stars) to unlock the flight.

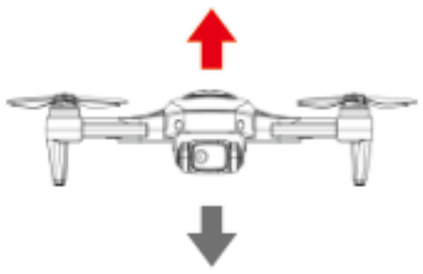
Remote controller Video picture shooting instructions:



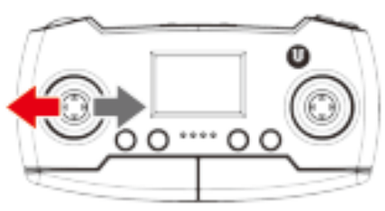
During the flight, you can use the photo or video on the remote control to record the aerial images during the flight. Press the camera button, the camera takes a photo, the remote control prompts "di", the mobile APP prompts "click", press to record Press the button again to exit the recording mode. The camera starts to record, and the remote control beeps "di". Press this button again to exit the recording mode.

Manipulation method





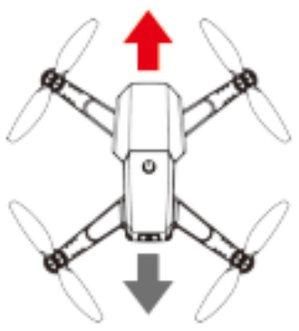
When the left lever (accelerator) is pushed upwards, the speed of the main wind blade increases and the aircraft goes up.
When the left lever (accelerator) is pushed downward, the speed of the main wind blade slows down and the aircraft descends



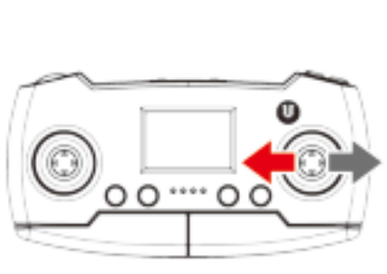


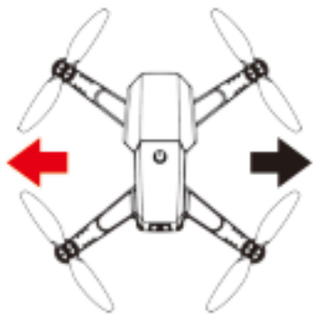
When the left lever (rudder) is pushed to the left, the aircraft head turns to the left, when pushed to the right, and the head turns to the right.





When the right lever (rudder) is pushed up, the aircraft goes forward.
When the right lever (rudder) is pushed down, the aircraft goes backward.





When the right lever (rudder) is pushed to the right, the aircraft flies to the right.
When the right lever (rudder) is pushed to the left, the aircraft flies to the left.

Warning: When the Drone is 30 cm away from the ground, the Drone will become unstable due to the influence of its own blade eddy current, which is called "ground effect reaction". When the height of the Drone is lower, the effect of ground effect reaction is the largest.

Operation description of remote control function:

1. Drone unlock

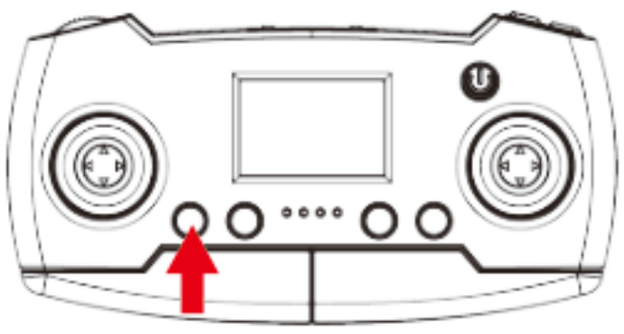


Figure 1

When the drone has successfully positioned itself outdoors, the drone needs to be unlocked to start, press and hold the remote control. Press the "unlock" button (Figure 1). At this time, the four propellers rotate at the same speed, indicating that the unlocking is successful. When the unlocking is completed, the UAV can operate and fly normally.

2. Speed gear adjustment



Figure 2

The take-off speed gear of the drone defaults to the slow gear. When the drone is flying in the air, the speed can be adjusted through the fast and slow speed gear (Figure 2). Short press the speed button and the remote controller will beep twice to indicate entering Second gear, short press the speed button again, the remote control will return to the low gear with a beep.

3. Camera angle adjustment

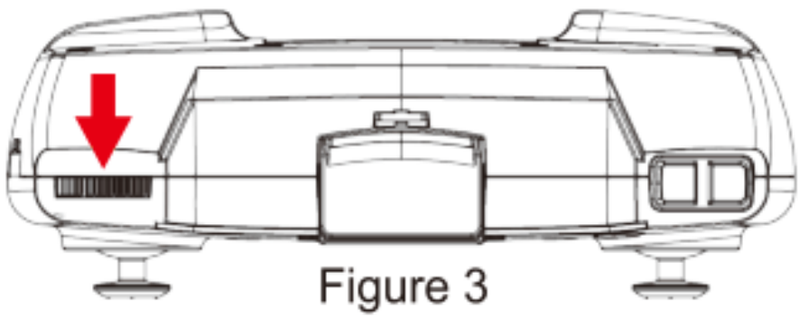
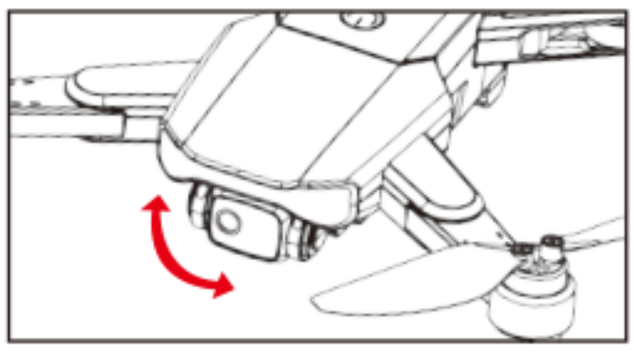


Figure 3



The angle of the camera can be adjusted through the camera adjustment knob (Figure 3) during UAV flight. Knob right turn camera angle decreases, knob left turn camera angle increases

4.headless mode



Figure 4

Place the UAV directly in front of the remote controller, with the nose of the UAV facing forward, calibrate and take off horizontally after frequency alignment, press the headless mode button (Figure 4) during flight, and the remote controller "drops" three times, indicating that the UAV enters headless mode. At this time,The UAV's front indicator lights flash slowly. To exit headless mode, press the headless mode button again, and the remote control drops to exit headless mode.

Make sure that the operator is facing the same direction from beginning to end, in the same direction as the aircraft took off. At this time, no matter which direction the aircraft faces, the operator dials the direction rocker to retreat, and the aircraft will retreat towards the operator.

5.One-press for return

After the GPS function is turned on outdoors and the satellite is searched for calibration and takeoff, if the drone is flying far away or the drone is in a low battery state, press the one-key return button, and the drone will return to the initial take-off position.

Return:

The aircraft has a home return function. If the home point is successfully recorded before takeoff, the remote controller and the aircraft lose the communication signal or the home key is pressed, the aircraft will automatically return to the home point and land to prevent accidents.
The aircraft has three different ways to return to home, namely: one-key return, uncontrolled return, and low battery return.

Home point:

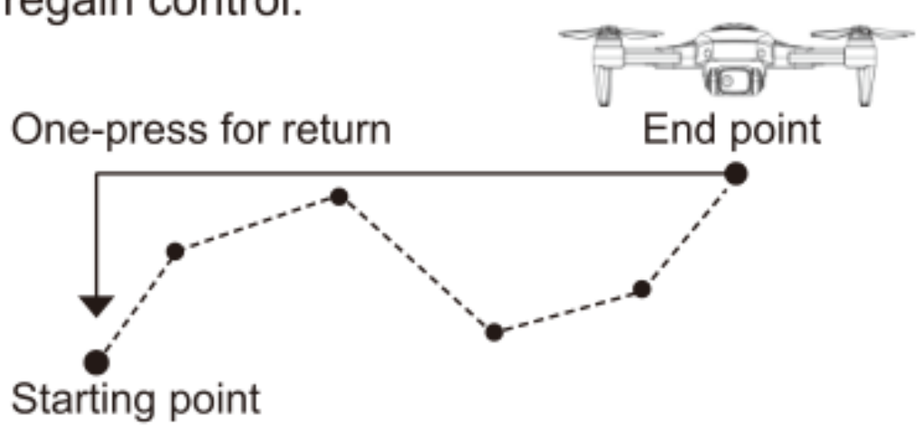
During takeoff or flight, when GPS receives more than 9 stars for the first time, it will record the aircraft's current position as the home point.

One-press for return

When the GPS signal is good (the number of satellites is greater than 9), you can start the aircraft to return to home by pressing the "one-key return" button on the remote control. The return process is the same as the out of control return. The difference is that when the aircraft returns to home and lands, the user can control it with the joystick The aircraft can avoid obstacles, and then press the "one-key return" button on the remote control to exit and return, and the user can regain control.



Figure 5



Out of control and returning:

When the GPS signal is good (the number of satellites is greater than 9), the compass is working normally, and the aircraft successfully records the home point, if the remote control signal continues to be interrupted for more than 6 seconds, the flight control system will take over the control of the aircraft and control the aircraft to fly back to the recorded return home point. If the remote control signal is restored during the flight, the return home process will continue, but the user can cancel the return home via the remote control return home button and regain control of the aircraft.

⚠ Note for returning home:

1. During the automatic return, the aircraft cannot avoid obstacles.
2. When the GPS signal is poor or the GPS is not working, it cannot return home.
3. If the aircraft does not receive the satellite and the remote control signal continues to be interrupted for more than 6 seconds, the aircraft will not be able to return home and will descend slowly until the landing is locked.

Low power return:

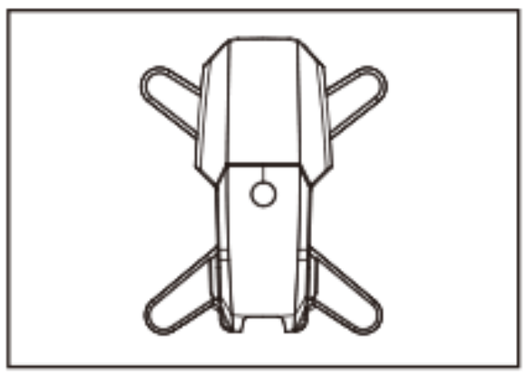
The low-voltage indicator of the aircraft will flash slowly, and the aircraft will automatically return to the vicinity of takeoff 30 meters (after low power, the aircraft will return to the vicinity of the take-off point, and the aircraft's altitude and distance will be limited to within 30 meters)
If the aircraft voltage is lower than the safe value, it will automatically land to the home point.

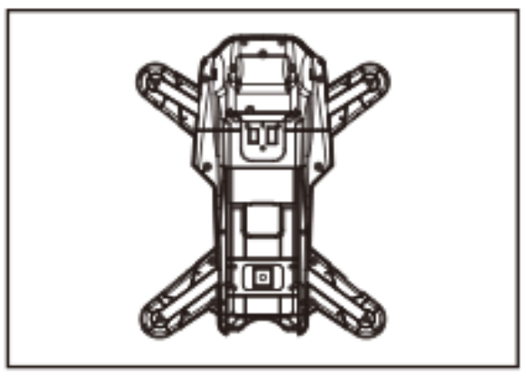
⚠ Reminder: The aircraft is in the low power return state, and the remote controller cannot cancel the return.

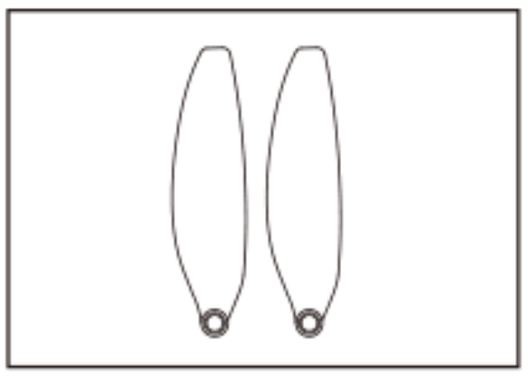
Resolution guide for common problems

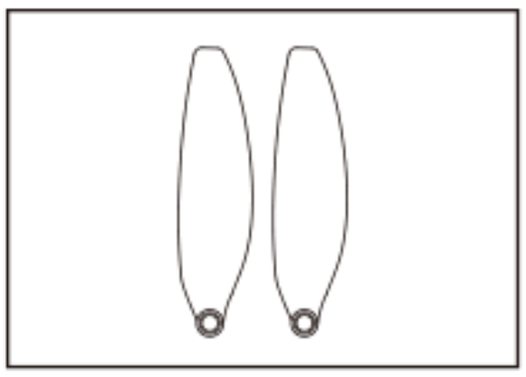
Problems	Solution
After the aircraft is powered on, the indicator light keeps flashing rapidly	The aircraft is in the gyroscope detection state, please place the aircraft on a stationary surface or on the ground
After taking off, the aircraft can't hover, it leans a lot to one side	Place the aircraft on a flat or level ground and re-calibrate the gyroscope
The aircraft vibrates very badly	The blades are deformed and need to be replaced
The aircraft cannot be unlocked and the indicator light flashes quickly	The aircraft battery voltage is too low, please fully charge the battery
Unsteady flight of gale aircraft	Wait for 4-5 gusts to fly
Unable to hover, keep going in circles	The geomagnetism calibration is unsuccessful, re-calibrate the geomagnetism

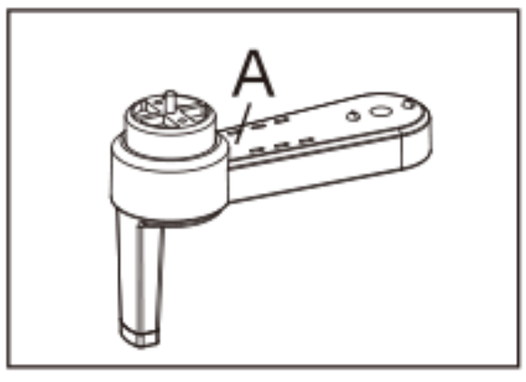
Accessories


Upper cover

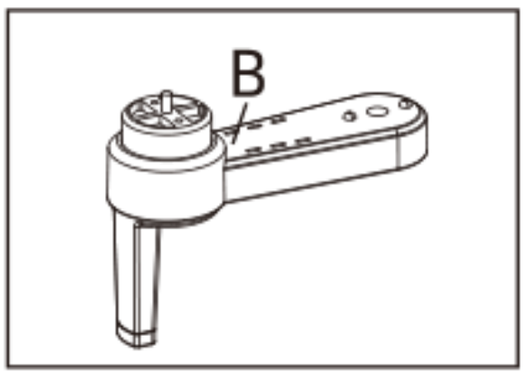

Lower lid


Paddle A

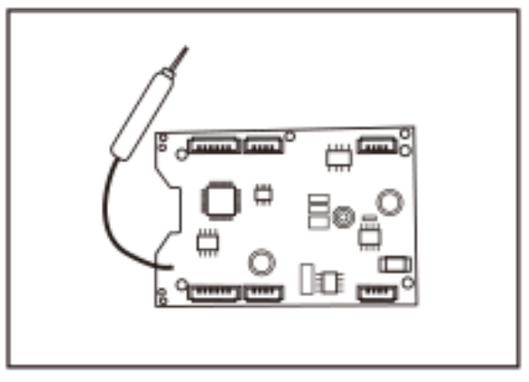

Paddle B

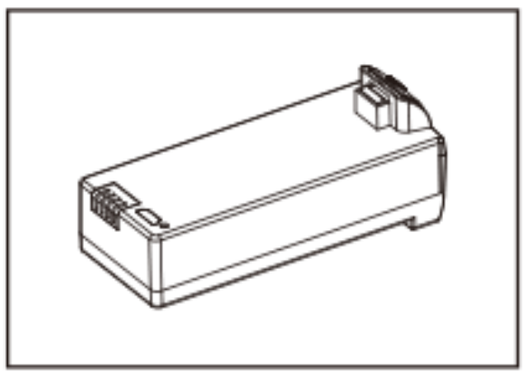


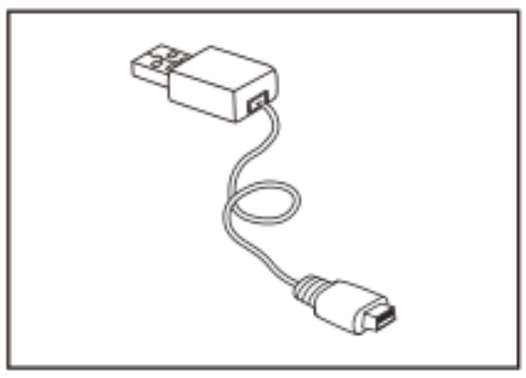
Motor A

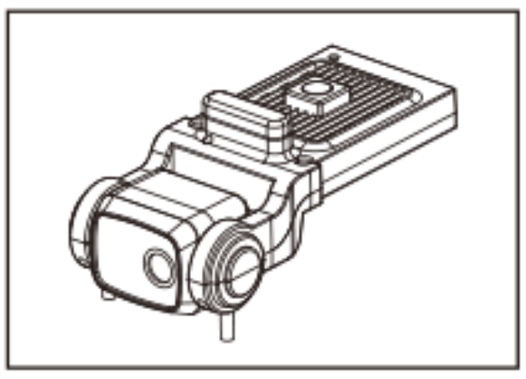


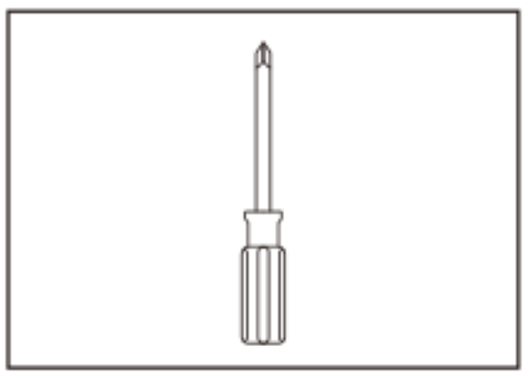
Motor B

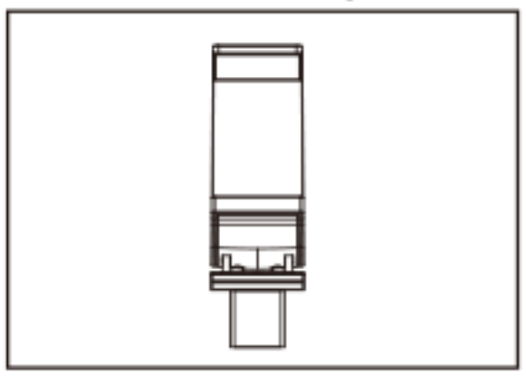

Circuit board

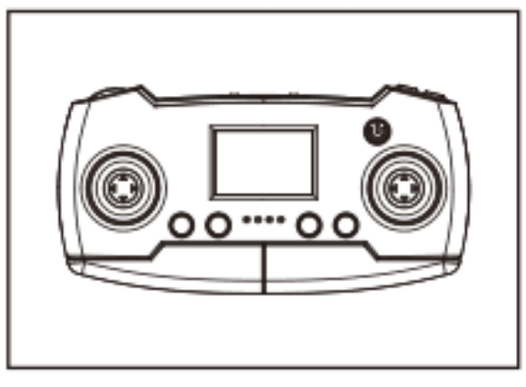

Battery


USB charging cable


camera


Screwdriver


Phone stand


Remote control