

适用于14岁以上

# 无刷四轴航拍无人机

## 使用说明书

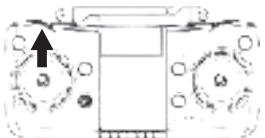


### 安全防范：

- 1.为保证航空无线电台（站）电磁环境的要求:禁止在以机场跑道中心点为圆心、半径5000M的区域内使用各类模型遥控器。在国家有关部门发布无线电信制命令的期间、区域区，应按要求停止使用模型遥控器。选择温暖晴朗无风的天气飞行，切勿在过热、过冷、强风、暴雨等恶劣天气条件下飞行；选择室内或户外空旷地方，并与人、宠物、空架电线及其他障碍物保持安全距离，确认无其他使用相同频率；不能让飞机离开视线；
- 2.飞行器发动后，请不要接触飞行器的高速旋转部分与高速旋转的螺旋桨保持距离，以免发生绞伤危险。（包括齿轮、旋翼等）。
- 3.飞行器使用中和使用后，电池及电机将会产生高温，请勿触摸，以免发生烫伤的危险。
- 4.请勿直视发光二极管的光束，以免影响眼睛。

温馨提示：建议初学者在空旷无人的地方低空练习飞行3天左右，熟悉飞行后再向高空飞行

### 无人机起飞

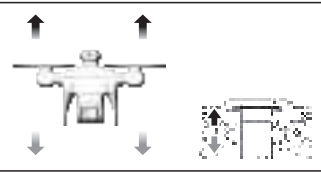


无人机对频成功后，向上推动油门手柄，这时无人机四个风叶开始转动。启动以后，再往上推动油门手柄，无人机起飞。

### 飞行器操控指引

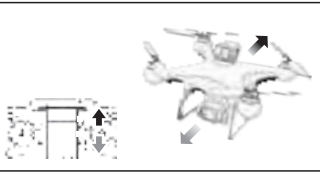
#### （1）操作方向

##### 上升、下降控制



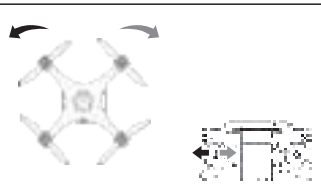
当左操作杆（油门）向上或向下推，飞行器相应的上升或下降。

##### 前进、后退控制



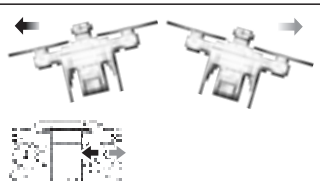
当右操作杆（转向舵）向上或向下推，飞行器相应的前进或后退。

##### 左转、右转控制



当左操作杆（油门）向左或向右推，飞行器相应的左转或右转。

##### 左侧飞、右侧飞控制



当右操作杆（转向舵）向左或向右推，飞行器相应的向左侧飞或向右侧飞。

**警告** 当无人机在离地面30cm的位置，无人机会受到自身桨叶涡流的影响而变得不稳定，这就叫“地效反应”，当无人机高度越低时，地效反应的影响越大。

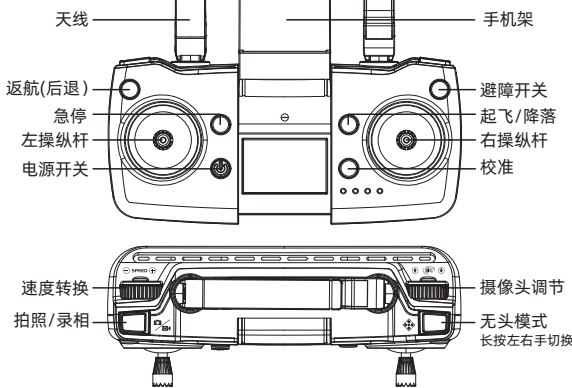
### 安全守则

- 1.请将飞行器较小零部件放置于小孩不能触及的地方，避免发生意外。
- 2.本飞行器动力十足，首次飞行时应慢慢推高遥控器左手变速操纵杆，避免飞行器急速上升而导致碰撞损坏。
- 3.飞行结束后，应先关闭遥控器电源，再走近飞行器关闭飞行器电源。
- 4.切勿将电池放在高温，受热的地方（如火中或电热装置附近）。
- 5.注意飞行器飞行时与使用者或其他人保持2-3米的距离，避免飞行器飞行降落时撞向他人的头部，脸部或身体等。
- 6.儿童操控飞行器时应由成年人在旁指导并确保飞行器控制在操纵者（或指导者）的视线范围内，方便控制。
- 7.不使用时应关闭遥控器及飞行器电源，并取出遥控器内的电池。
- 8.电源端子不得短路。

### 保养及维护

- 1.常用于净软布清洁此产品。
- 2.避免此产品在阳光下暴晒或受热。
- 3.切勿将玩具浸在水中，否则会令电子零件受损。
- 4.定期检查插头及其它配件，如发现任何损坏，请马上停止使用，直到完全修复。

### 了解你的遥控器



左右手切换:默认左手油门，对频后长按“左右手切换键”切换为右手油门

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### 无头模式

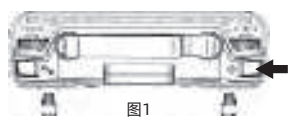


图1

把无人机放在遥控器正前方，无人机的机头方向朝前，对频后水平校准起飞，飞行过程中按无头模式按键(图1)，遥控器“滴滴...”一直响，表示无人机进入无头模式，此时无人机的前指示灯慢闪，若要退出无头模式，再按下无头模式按键，遥控器滴一声，则退出无头模式。

请确保操作者从始至终都面对同一个方向，与飞行器起飞时的方向一致。

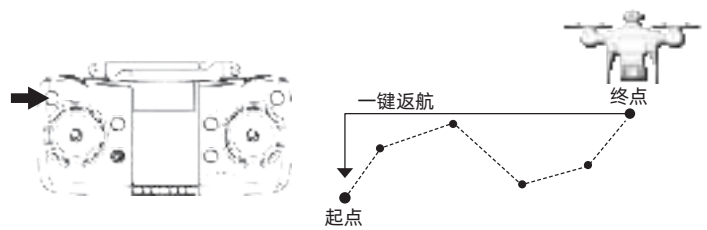
此时无论飞行器朝向哪个方向，操作者拨动方向摇杆后退，飞行器就会朝操作者后退。

### 一键返航

启动一键返航后，飞行器会自动向操作者所在的位置往回飞。（要确保人在飞机的后方）

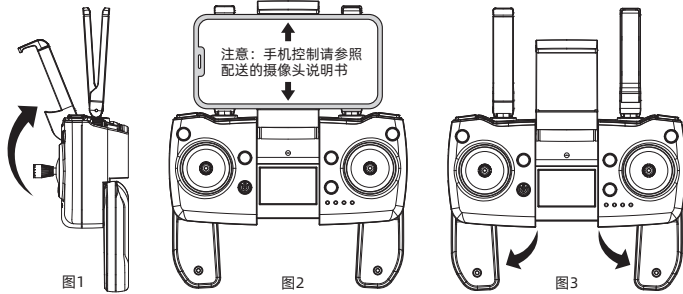
进入“一键返航”：长按遥控器上的“一键返航”按键3秒遥控器会发出“滴”长声响，这时飞行器进入一键返航状态，飞行器自动返航，操作者只需控制飞行器高度即（确保操作者要站在飞行器的后方）

退出“一键返航”：按任意按键解除一键返航。



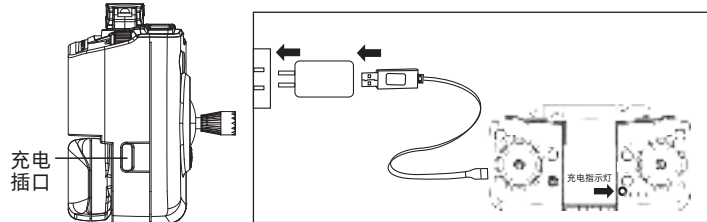
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### 遥控器手把/手机架使用说明：



手机架：将遥控器中间手机架向上掀开(图1)，向上拉伸可放置手机(图2)。遥控器手把：将遥控器底部手把从中间位置向下拉，旋转至到位。

### 遥控器充电使用说明：

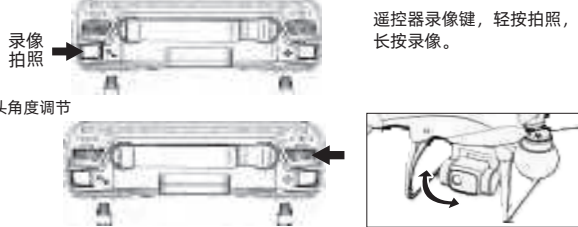


将充电线充电插头插入遥控器充电插口，然后将USB充电器插头连接电脑或手机充电器充电，充电时充电指示灯亮起，充满后指示灯熄灭。（充电时间60分钟左右）

注意：如果充电时充电指示灯没有变化时，这表明电池为满电，不需要再充电。

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### 遥控器视频/图片拍摄说明：



无人机飞行过程中可通过摄像头调节旋钮调节摄像头的角度。旋钮右转摄像头角度降低，旋钮左转摄像头角度升高。

### 避障功能(需另外购买)

避障设备安装及使用注意事项：  
使用注意：必须先安装好避障设备，再打开无人机电源，否则会损坏避障设备，影响正常使用。



在开启本产品时，切勿触碰避障设备，因避障设备正处于通电工作状态中，擅自触碰会导致避障设备无法正常工作，大机率会损坏避障设备功能。

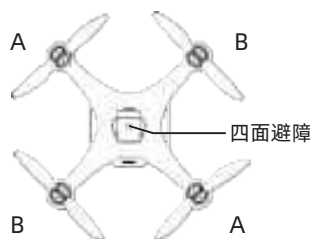
拆除避障设备时，必须先关闭无人机电源，再进行拆除，否则会损坏避障设备，影响正常使用。关闭无人机电源，将避障设备拆除，然后安装避障设备位置盖板。

产品开机默认低速档模式（50%），无人机具有360°避障功能，如切换到高速模式（100%），由于飞行器飞行速度较快，系统还没接收到停止飞行的指令，无人机可能已撞上障碍物，无人机避障功能自动失效。

### 避障功能注意事项：

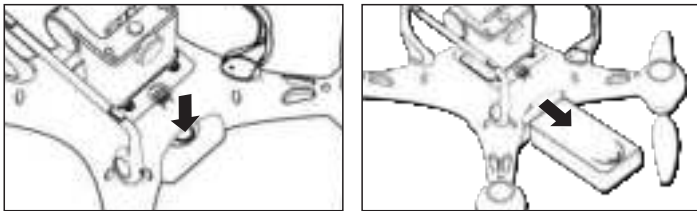
- 1.请在开机前安装好避障头；
- 2.避障距离1米左右，感应到有障碍物时遥控器会滴滴响；
- 3.使用避障功能时请在室内或没有阳光的室外飞行（太阳光对避障功能有干扰）

**警告** 请确保正确安装，安装错误将导致不能正常飞行

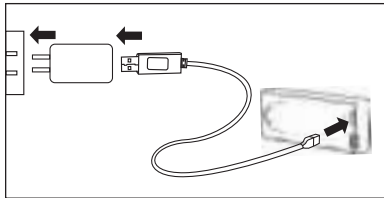


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### 无人机锂电池充电使用说明：



取出无人机电池：按住箭头所示位置，向后拉取出电池。

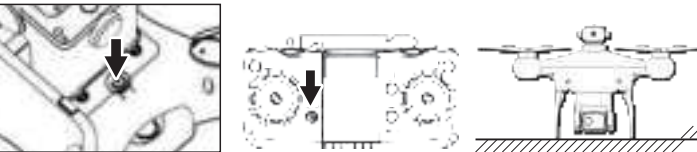


电池充电步骤：  
USB安卓头插入电池，将USB充电器插头连接电脑或手机充电器充电，充电时电池上安卓头红灯亮起，充满电后红灯熄灭。（充电时间90分钟左右）

注意：如果电池插到充电器上，电池上安卓头灯没有亮，不需要再充电。

### 无人机对频

将无人机放在水平地面上并打开电源，再打开遥控器电源，此时飞行器上灯光快速闪烁，遥控器上的灯光闪烁，遥控器左操纵杆向上推后往下拉，此时遥控器和无人机上指示灯长亮表示对频成功。

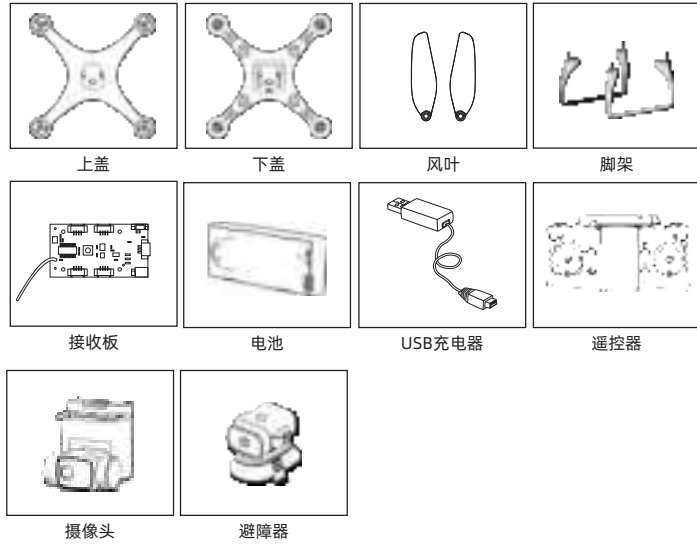


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### 常见问题解决指引：

问题	原因	解决方法
无人机指示灯闪烁操作无反应	无人机电量不足	为电池充电
无人机桨叶转动但飞不起来	1.桨叶装错 2.桨叶变形	1.为电池充电 2.更换桨叶
无人机震动得厉害	桨叶变形	更换桨叶
微调调到底了但仍不能使无人机平稳	1.桨叶变形 2.马达不良	1.更换桨叶 2.更换马达
撞击后再次启动无人机不受控制乱飞	三轴加速度传感器因撞击失去平衡	将无人机静放5-10秒后就可以了

### 配件清单



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# R/C BRUSHLESS AERIAL DRONE USER'S GUIDE

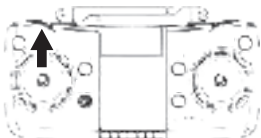


### Safety precautions:

- 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

### DRONE TAKE OFF

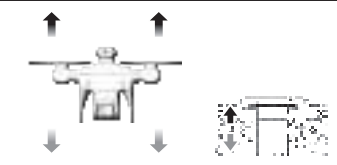


After the drone is successfully linked, push the throttle handle upwards, and the four blades of the drone will start to rotate. After starting, push the throttle handle upwards, and the drone will take off.

### OPERATION GUIDE OF AIRCRAFT

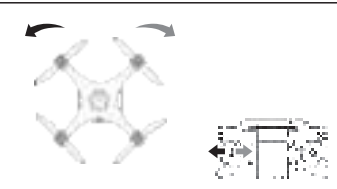
#### Operation direction

##### Rise/decline control



When pushing the left operating lever (accelerator) upward or downward, the aircraft rises or declines correspondingly.

##### Leftward rotation and rightward rotation control



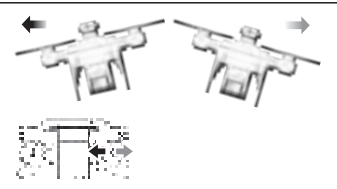
When push the left operating lever (accelerator) leftward or rightward, the aircraft rotates leftward or rightward correspondingly.

##### Forward/backward control



When pushing the right operating lever (steering wheel) upward or downward, the aircraft flies forward or backward correspondingly.

##### Leftward/rightward flight control



When pushing the right operating lever (steering wheel) leftward or rightward, the aircraft flies leftward or rightward correspondingly.

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.

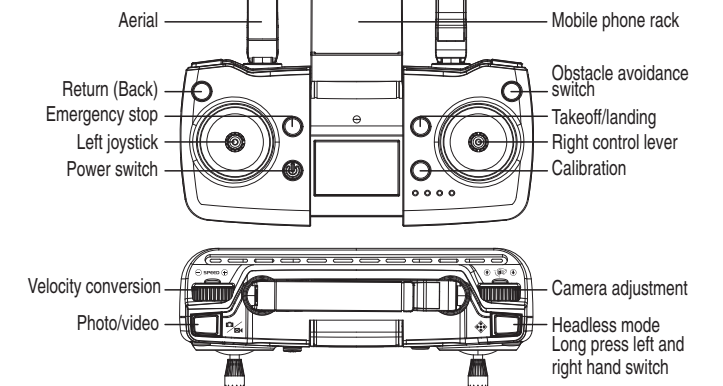
### SAFETY REGULATIONS

- 1.Please put the small parts of aircraft out of the reach of children to avoid accident.
- 2.The aircraft has strong power. for the initial flight, please push the gear lever of the remote control on your left hand slowly to make the aircraft fly high as slowly as possible and avoid zoom and thus result in collision and damage.
- 3.After the end of flight, please firstly turn off the power of remote control and then turn off the power of aircraft.
- 4.Please don't put the battery in a high-temperature or heated place (such as near the fire source or electric heating device)
- 5.Note that the aircraft should keep 2 to 3 m distance away from the user or other persons when flying to avoid the craft dashing against the head, face or body of others when landing.
- 6.When the a child manipulates the aircraft, he/she should be directed by an adult at site and the aircraft should be controlled within the visibility range of manipulator (or director).
- 7.When you don't use the aircraft, please turn off the power of remote control and aircraft and take out the battery in the remote control.
- 8.Short circuit cannot occur on the power supply terminal.

### MAINTENANCE

- 1.Please often use clean soft cloth to clean the product.
- 2.Avoid putting the product under the sun or avoid the product being heated.
- 3.Please don't soak the toy in the water, or else electronic parts will be damaged.
- 4.Please check the plug and other accessories at regular time, if you find any damage, please stop using it immediately until it is repaired and restored to a normal state.

### KNOW YOUR REMOTE CONTROL



Left-handed switching:  
Default left-handed throttle, long press "left-handed switching key" before linking to switch to right-handed throttle.

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### HEADLESS FUNCTION



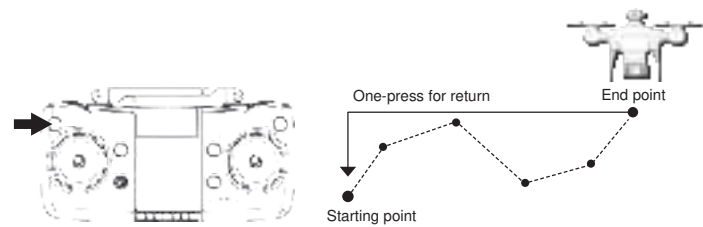
Put the drone directly in front of the remote control, with the nose of the drone facing forward, and take off after frequency alignment. Press the headless mode button during the flight, and the remote control will keep beeping, indicating that When the drone enters the headless mode, the front indicator light of the drone will flash slowly. If you want to exit the headless mode, press the headless mode button again, and the remote control will beep once, then you will exit the headless mode.

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

### ONE-KEY RETURN FLIGHT (NAMELY ONE-KEY BACKWARD)

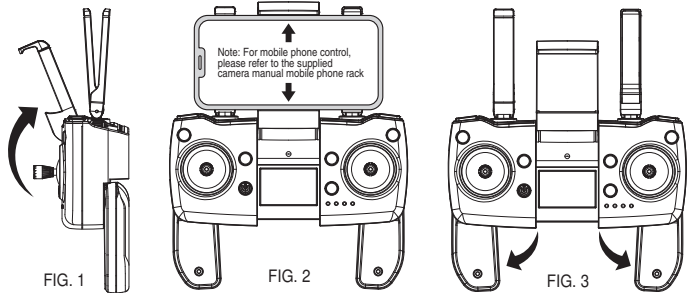
After starting one-key return flight, aircraft returns to the location where the operator is. (please ensure the operator is at the back of airplane)

Enter "one-key return": long press "one key return key" on the remote control for 3s, the remote control will beep for a while, then the aircraft enters one-key return state and returns automatically. Operator only needs to control the height of aircraft (please ensure the operator is at the back of airplane) Exit "one key return": press any keys to relieve one key return mode.



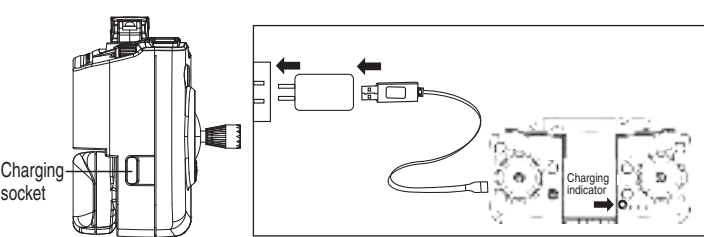
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### INSTRUCTIONS FOR REMOTE CONTROL HANDLE/MOBILE PHONE RACK:



Lift the mobile phone rack in the middle of the remote controller upward (FIG. 1), and stretch upward to place the mobile phone (FIG. 2). Remote control handle: Pull the bottom handle of the remote control down from the middle position and rotate it into place(FIG. 3).

### 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 60 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.

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### REMOTE CONTROLLER VIDEO PICTURE SHOOTING INSTRUCTIONS:

Video recording Photograph Remote control video key, gently press to take photos,long press to record.

#### CAMERA ANGLE ADJUSTMENT



The angle of the camera can be adjusted through the camera adjustment knob during drone flight. Knob right turn camera angle decreases, knob left turn camera angle increases.

### LASER OBSTACLE AVOIDANCE FUNCTION (NEED TO BE PURCHASED SEPARATELY)

Precautions for the installation and use of obstacle avoidance equipment:  
Use note:Obstacle avoidance equipment must be installed before turning on the power of the drone, otherwise it will damage the obstacle avoidance equipment and affect normal use.



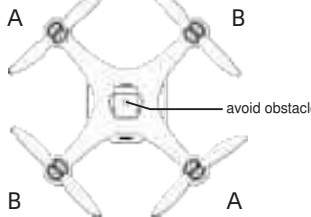
When turning on this product, do not touch the obstacle avoidance equipment, because the obstacle avoidance equipment is in the power-on working state, unauthorized touching will cause the obstacle avoidance equipment to not work normally, and it will most likely damage the obstacle avoidance equipment function.

When removing the obstacle avoidance equipment, the power of the drone must be turned off before dismantling, otherwise it will damage the obstacle avoidance equipment and affect normal use.

#### Precautions for obstacle avoidance function:

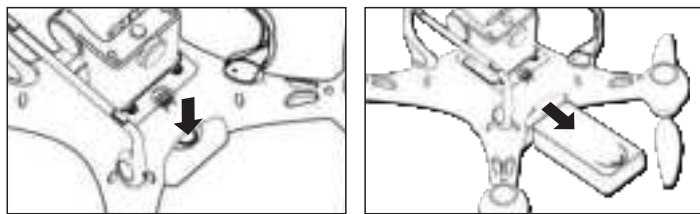
1. Please install the obstacle avoidance head before starting the machine;
2. The obstacle avoidance distance is about 1 meter, and the remote control will beep when it senses an obstacle;
3. When using the obstacle avoidance function, please fly indoors or outdoors without sunlight (sunlight interferes with the obstacle avoidance function)

Please make sure to install it correctly, wrong installation will lead to abnormal flight

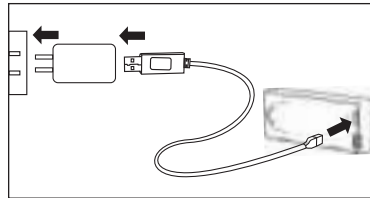


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### INSTRUCTIONS FOR CHARGING DRONE LITHIUM BATTERY:



Take out the drone battery: Press the position shown in the arrow and pull out the battery backwards.



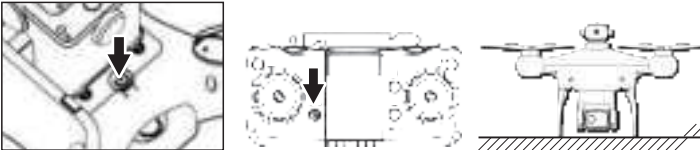
#### Battery charging steps:

Plug the USB Android head into the battery and plug the USB charger Connect the computer or mobile phone charger to charge. When charging, the Android headlight on the battery lights up, and when fully charged, the red light goes out. (Charging time is about 90 minutes)

Note: If the battery is plugged into the charger and the Android headlight on the battery is not on, no recharging is required

### DRONES TO FREQUENCY

Put the drone on the level ground and turn on the power, then turn on the power of the remote control. At this time, the light on the aircraft flashes rapidly, and the light on the remote control flashes. Push the left joystick of the remote control up and then pull it down. The indicator light on the drone is always on, indicating that the frequency linking is successful.

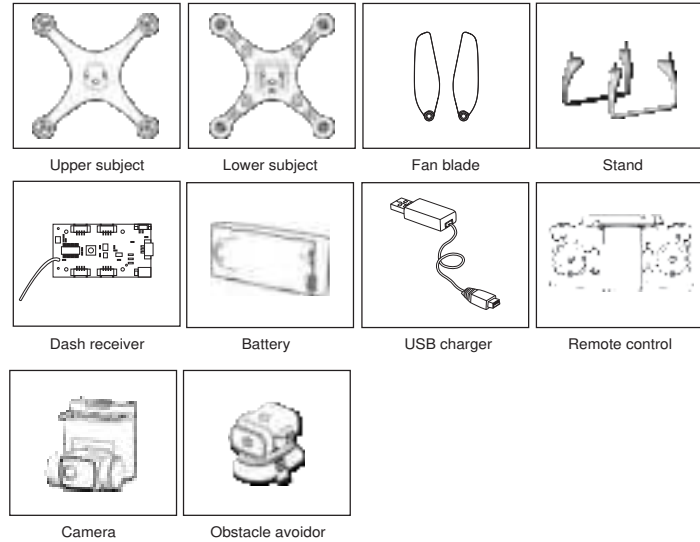


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### RESOLUTION GUIDE FOR COMMON PROBLEMS

Problems	Causes	Resolutions
Drone indicator is flashing while not respond when operating	Low power of Drone	Charging the battery
Drone blades turn but can't fly	1. Low battery 2. Blade deformation	1. Charging the battery 2. Replacement of blade
The drone was badly shaken	Blade deformation	Replacement of blade
Can't keep the drone steady after fine-tuning to the bottom	1. Blade deformation 2. Poor motor	1. Replacement of blade 2. Replacement of motor
After impact, uncontrolled flying of Drone when start again	Triaxial acceleration sensor overbalances due to impact	Make the Drone standstill for 5-10 seconds

### ACCESSORIES (OPTIONAL)



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#### FCC Statement

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.

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

#### RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.