



TM



# H98WH

2.4GHZ 6-AXIS GYRO DRONE

## Attention重要提示

1. This 6-axis gyro drone is suitable for indoor/outdoor flight, please make sure the outdoor wind force is less than Beaufort force 4.  
本产品是采用陀螺仪技术且能在较小空间及室外飞行的六轴陀螺仪飞行器，只要室外风力不大于4级，都可以满足您对飞行的渴望。
2. It adopts 2.4G frequency band for long remote control distance; allows multiple flights at the same time and in a same area without any interference. Gamer can control it to fly forward/backward, left/right sideward, turn left/right.  
飞行器采用2.4G频段，遥控距离远，可实现多人同时操作而互不干扰。通过遥控器控制能使此飞行器有前进、后退、左侧飞、右侧飞、左右转向等4通道基本功能。
3. Please read this manual carefully before operation and keep it properly for future reference.  
为了您更容易、熟练、更安全的操作此飞行器，请您仔细阅读完此说明书，同时请您妥善保管这本说明书，以便日后参考。



## PARTS OF REMOTE CONTROL 遥控器各部位名称



## SIGNAL CONNECTION OF TRANSMITTER AND RECEIVER

### 遥控器与接收器的对频

1. Put the aircraft in the horizontal plane. Switch on, lamplight in the aircraft flickers slowly.
2. Switch on the remote control, indicator light flickers with a ticking sound. Do not operate the aircraft and remote control at this moment. Wait for two seconds when hear another ticking sound from the remote control with indicator light normally on, and at this time lamplight in the aircraft flickers quickly, then frequency matching completes.

1. 将飞行器放置于水平面, 打开飞行器开关, 飞行器灯光慢闪。
2. 打开遥控器开关, 遥控器指示灯闪烁并发出滴一声, 现在不要在动飞行器和遥控器, 等待2秒后, 遥控器在发出滴一声, 且指示灯常亮, 此时飞行器的灯光快闪烁, 则对频完成。



### 陀螺仪校准 GYRO CALIBRATION



飞行器起飞前, 请务必将飞行器放置在水平面上校对, 确保飞行器在起飞后平稳飞行, 当飞行器受到撞击或碰撞跑偏后, 将油门操纵杆和方向操纵杆打到左下角, 此时飞行器指示灯快速闪烁, 待指示灯常亮, 松开遥控器全部按键, 校正完成。

Before take off, place the drone on a level surface to do the calibration. Make sure that the drone flies steadily. When the drone flies off balance after a crash, please push the throttle joystick and rudder joystick to the lower right corner, at this moment, the indicator light of drone will flash quickly, please wait until the indicator light becomes light on, then loosen all buttons of the transmitter, and the calibration has completed.



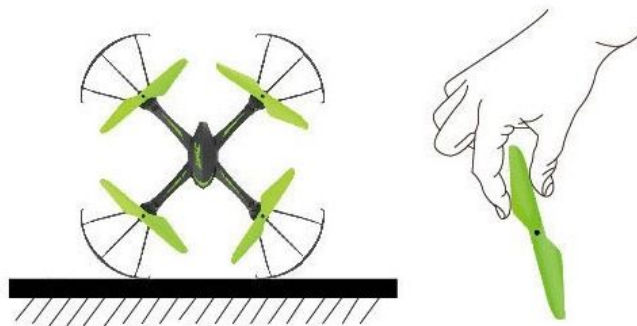
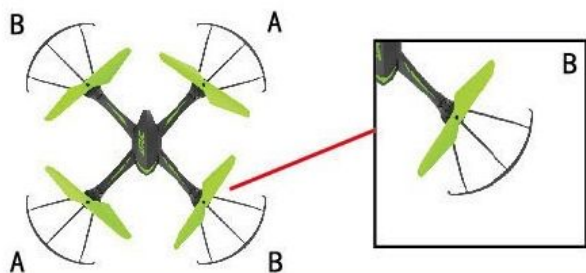
## FAN BLADES INSTALLATION 风叶安装

The fan blades should be installed to the designated place. The number of fan blade should be the same as the number of airframe. A is corresponding with A, B is corresponding with B, or the quadcopter would not be able to fly. The number indications are shown as the figure.

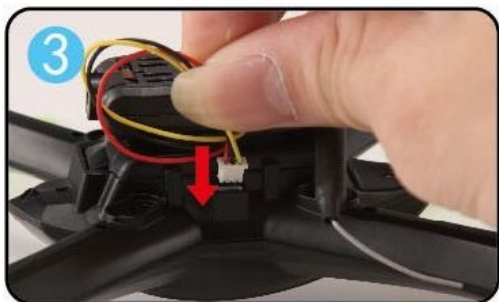
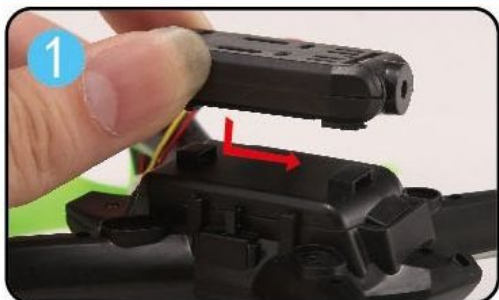
飞行器的风叶安装有位置要求，风叶码必须与机架码相同，A与A，B与B相对应，否则无法起飞，编码如图示

Install fan blades: Press down the fan blade to the motor shaft. Please do not deform it.

安装风叶：捏住风叶对准马达轴按下去，注意不能变形。



## CAMERA INSTALLATION 摄像头安装



## TRANSMITTER BATTERY INSTALLATION 遥控器电池安装



1.5V AA batteries  
五号碱性电池



### CAUTION 注意:

1. Make sure the battery is loaded correctly according to the polarity indications on the battery compartment.  
装入电池时必须认准正负极与电池正负极，切不能装反。
2. Please do not mix old and new batteries together.  
请勿混合使用新旧电池。
3. Please do not mix different types of batteries together.  
请勿混合使用不同类型的电池。

Battery installation method: Open the battery cover on the back of the transmitter, according to the polarity indications on the battery compartment, load 4\*AA batteries(not included) correctly.

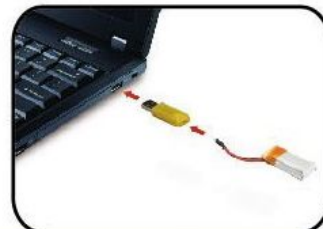
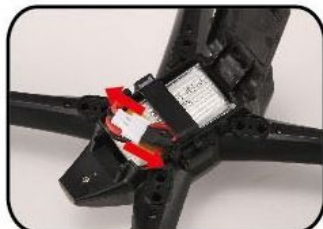
电池的安方法：打开遥控器背面的电池盖，依照电池箱内的电极指示，正确的放入4粒“AA”电池（电池须另购）。



## LITHIUM BATTERY CHARGING INSTRUCTION 飞行器电池充电

Take out the lithium battery from the battery holder and disconnect with the power, connect the USB plug of charger with the computer USB port, then connect the charging socket of the charger with the lithium battery plug. When charging, the LED will light up; when fully charged, the LED will light off. The charging time is about 2 to 3 hours.

将飞行器的锂电池按图示方法从电池座取出，将充电器USB插头插入电脑USB插孔，后将充电器的充电插孔与锂电池插头链接，当充电时，LED灯亮，充电结束时LED灯灭，充电时间约为2~3小时。



### CAUTION 注意:

1. The remote-controlled distance will be shortened when the battery power of the quadcopter/transmitter is insufficient. 遥控器或飞行器的电量不足，遥控距离受影响。
2. The quadcopter will be unable to take off or fly high when the power of quadcopter is insufficient. 若飞行器电量不足，会出现飞行高度不够或起飞困难等情况。

## ATTENTIONS TO LITHIUM BATTERY USAGE

### 锂电池使用的相关注意事项

- There is a certain risk when using lithium battery. It may cause fire, body injury or property loss. Users must be aware of the risks of using this product. Manufacturers, retailers and dealers do not bear any responsibility once accidents occur, so please read the safety guidelines and charging instructions carefully before operation.  
锂电池的使用有一定风险，可能对人身和财产造成重大损失，使用者应自行承担所有相关责任。制造商和经销商不对电池的使用（充电、放电和储存等）进行控制，也不对其对人身和财产造成的损失承担责任。
- If battery leakage occurs, please avoid contacting your eyes and skin with electrolyte. Once it happens, please wash your eyes with clean water and seek medical care immediately.  
如果电池发生泄漏，请避免液体与皮肤和眼睛的接触。请立即使用香皂和清水进行清洗。若接触到眼睛，请立即使用大量冷水冲洗并立即就医。
- Please remove the batteries to avoid the damage to the product caused by batteries leakage if you do not use the transmitter for a long time.  
长期不使用请将遥控器的电池取出，以免漏液造成对本产品的损坏。
- Please remove the plug immediately if you sense any peculiar smell, noise or smog.  
如果充电器出现可疑的异味、噪音或者烟雾，请立即拔除电源。
- Please comply with the following requirements strictly, or it may cause fire, electric shock or explosion.  
请严格遵守下列要求，否则将会引发火灾、电击或爆炸。

### Battery Charging 充电

- Please use the charger from original factory to ensure your safe usage.  
电池必须使用原厂配送的专用充电器，充电严禁使用破损或其它的充电器。
- Do not charge the dilatant or outworn battery.  
请勿对膨胀、泄漏或者破损的电池进行充电。
- Do not overcharge the battery. Please pull out the charger once the battery is fully charged.  
请勿对电池进行过度充电。当电池完全充满后，请拔出充电器。充电结束后，请勿对电池进行重新充电，避免发生过热的情况。
- Do not charge the battery next to inflammables or on the surface of electro-conductive objects. When charging please observe the battery at all times.  
不要在靠近易燃物或在易燃（地毯、木地板、实木家具等）或导电的物体表面上充电。要随时对电池进行观察。

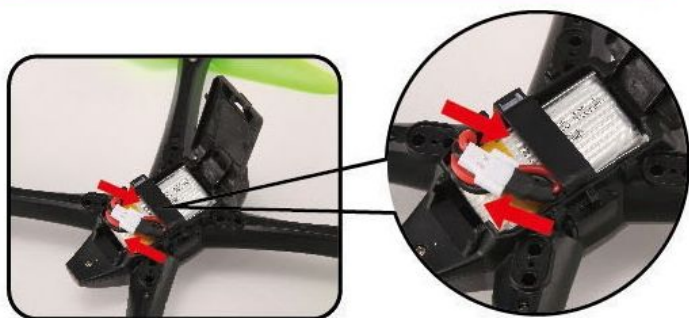


- Do not charge batteries which not cool down yet.  
切勿在产品使用后，电池尚热的时候立即充电。
- The charging temperature should be between 0℃ to 40℃.  
电池充电的温度应该介于0℃到40℃之间。

#### Recycle 回收

- Do not deal with the related equipment as daily rubbish. The damaged/unusable batteries should be put into the designated container.  
请勿将设备当作日常垃圾处理。损坏或者无法使用的电池应该放置在特殊的指定用途的容器中。
- This equipment is composed of electronic elements and batteries. For electronics garbage, please dispose them according to the special requirements.  
此设备由电子元件和电池构成。关于电子电器垃圾，请按照特殊的要求进行处理。
- Please familiarize yourself with the local garbage disposal method.  
请熟悉当地垃圾集中处理的办法。

## OPERATION METHODS 操纵方法



1. Connect the power plug of the drone with the lithium battery socket correctly as shown in the figure. Place the drone on a level surface, and please do not move it when the indicator light of mainboard is flashing.  
将锂电池的电源线插入飞行器的插头按图示方法正确连接，将飞行器置于平整地面，主板指示灯闪烁时不要再移动机身。
2. Connect the signal of the drone and the transmitter.  
将遥控器和飞行器对频。
3. Please place the drone on an open place. Before flight, please make sure that the rear part of drone is pointing to you directly.  
将飞行器放在空旷的地方，飞行前请确认前后方向并将飞行器后面对准自己。

Important: The orange light of drone indicates the forward direction, the green light of drone indicates the backward direction.

重要提示：飞行器带橙色灯为前进方向，带绿色灯为后退方向。



Push up the left joystick(throttle), the rotating speed of main blades increase, the drone will ascend.

当左操纵杆（油门）向上推，主风叶转速增大，飞行器升高。

Push down the left joystick(throttle), the rotating speed of main blades decrease, the drone will descend.

当左操纵杆（油门）向下推，主风叶转速减慢，飞行器下降。



Push the left joystick(rudder) to the left, the drone will turn left. Push the left joystick (rudder) to the right, the drone will turn right.  
当左操纵杆（方向舵）向左推，飞行器机头向左转。向右推，飞行器机头向右转。





Push up the right joystick(rudder), the drone will fly forward.

当右操纵杆（方向舵）向上推，飞行器向前进。

Push down the right joystick(rudder), the drone will fly backward.

当右操纵杆（方向舵）向下推，飞行器向后退。



Push the right joystick(rudder) to the right, the drone will fly sideways to the right.

当右操纵杆（方向舵）向右推，飞行器机身偏向右侧飞行。

Push the right joystick(rudder) to the left, the drone will fly sideways to the left.

当右操纵杆（方向舵）向左推，飞行器机身偏向左侧飞行。

## NOTICE 特别提示

Push the throttle joystick slowly, when the drone rotate or off balance in mid-air, please adjust it by using the fine-tuning.

慢慢推动油门操纵杆，当飞行器离开地面至空中时，若飞行器在空中打转或倾向不同方向，可使用微调修正动作。



When the drone rotates to the right, please push the right fine tuning button continuously until it recovers.

当飞行器向右打转时，请连续推动右微调按钮，直到飞行器不打转为止。



When the drone rotates to the left, please push the left fine tuning button continuously until it recovers.

当飞行器向左打转时，请连续推动左微调按钮，直到飞行器不打转为止。



If the drone flies sideways to the left while hovering, please push the right side flight fine tuning to the right continuously until it is back to normal.

当飞行器悬停时机身向左侧飞，请连续向右推动右侧飞微调，直到飞行器不会向左移动为止。



If the drone flies sideways to the right while hovering, please push the left side flight fine tuning to the left continuously until it is back to normal.

当飞行器悬停时机身向右侧飞，请连续推动左侧飞微调，直到飞行器不会向右移动为止。





If the quadcopter flies backward while hovering, please push the forward fine tuning continuously until it is back to normal.

当飞行器悬停时机身向后飞，请连续推动前进微调，直到飞行器不会向后移动为止。



If the quadcopter flies forward while hovering, please push the backward fine tuning continuously until it is back to normal.

当飞行器悬停时机身向前飞，请连续推动后退微调，直到飞行器不会向前移动为止。

### Attention 注意:

When the quadcopter is within 30cm from the ground, it will be affected by the blade vortex made by itself, and become unstable. This is "ground effect". The lighter the quadcopter is, the greater the effect will be.

当飞行器在离地面30cm以内的位置，飞行器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”当飞行器的重量越低时，地效反应的影响越大。

### ATTENTIONS BEFORE TAKE-OFF 飞行前注意事项

1. Indoor flying: Choose a wide place without barriers, pets and people.  
在室内飞行：请选择附近无障碍物、宠物及人的宽敞处飞行。
2. Outdoor flying: Choose a warm, sunny and windless day.  
在室外飞行：请选择温暖晴朗及没风或微风的天气飞行。
  - ① Do not fly in extreme temperatures. Flying in extreme temperatures may affect the performance and damage the product.  
切勿在气温极端的天气飞行：在过热或过冷的天气下飞行会影响飞行效果或损坏模型。
  - ② Do not fly in windy days. The performance and the control of the quadcopter will be affected by the strong winds. Flying in winds condition may cause disappearance or damages to the quadcopter.  
切勿在强风的天气飞行：强风会对飞行造成局限或会妨碍你的飞行控制。在强风的情况下飞行，你的飞行器会不知所踪或令它损坏。
3. Please repair the quadcopter in time when it is damaged. Do not fly the quadcopter when it is seriously damaged (rotor wing breakage), or it might lead to injury.  
若飞行器出现破损、变形请及时修理，严重者如旋翼断裂破损切勿飞行否则会导致受伤
4. Do not crash the quadcopter from high altitude or crash it seriously, or might shorten its lifetime.  
切不能让飞行器高空坠机或严重碰撞，这样会损坏飞行器或缩短飞行器寿命。

### ALTITUDE POSITION HOLD 气压悬停定高功能

When you control the drone to ascend/descend by using the left joystick(throttle), and loosen the left joystick(throttle) when the drone has already ascended/descended, the drone will hover in the height that you loosen the joystick.

用左操纵杆（油门）操纵飞行器上升/下降后松开左操纵杆（油门）时，飞行器仍会悬停在松开操纵杆时的高度。





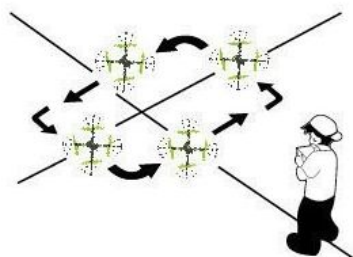
## FLYING PRACTICE 飞行练习

### Fixed-point revolving 定点旋转 (方位旋转)

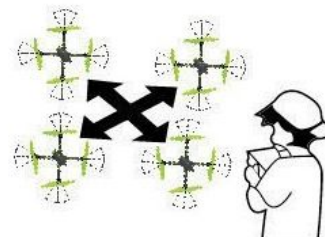


### Fixed-point landing 在指定地点着陆 (定点着陆)

You can practise the moves below after sufficient basic flying practices.  
经过足够的练习后, 尝试以下飞行练习



Fly a SQUARE pattern.  
飞行一个方形图案



Fly a CROSS pattern.  
完成一个十字架动作

Please try to fly square pattern/cross pattern after the basic moves (take off, landing, rotation) can be skillful operated.  
你可对飞行器进行定点起飞、着陆、旋转等基本练习后、再尝试飞行方形、十字架形图案的飞行练飞。

## 3D FLIP FLYING 3D 翻转飞行

When you skillfully operate the basic moves, you can try some adventurous rotations. Fly the drone more than 3 meters high from the ground, push the rotation button and push the right joystick (rubber) to one direction, the drone will rotate to the direction you push.

当前面的基本动作都很熟练时就可以玩一些惊险的翻滚动作。将飞行器飞到3米以上高度后, 点击翻滚键并将右操纵杆 (方向舵) 向一个方向推动, 此时飞行器就可以实现向此方向的翻滚动作。



Flip forward  
前翻



Flip backward  
后翻



Flip to the left  
左翻



Flip to the right  
右翻



PROBLEMS 问题	CAUSES 原因	SOLUTIONS 处理方法
Transmitter not working 遥控器没有工作	1.The transmitter switch is on"OFF". 开 / 关键在 "OFF" 的位置	1.Turn on the transmitter. 把开 / 关键打在 "ON" 的位置
	2.Install the batteries improperly. 没有依正确电极指示放入电池	2.Check and make sure that the batteries are loaded according to the polarity instructions on the battery box correctly. 检查和确保电池是依照电池箱所指示的正负极放入
	3.Battery exhausted. 电池耗尽	3.Replace with new batteries. 更换新电池
Control failure 不能遥控	1.The transmitter switch is on"OFF". 没有开启遥控器	1.Turn on the transmitter. 把遥控器开 / 关键拨向 "ON" 的位置
	2.Did not connect with the drone battery. 飞行器电池没连接	2.Connect the drone battery in right way. 把飞行器电池按正确方向连接
	3.Too strong wind force. 风力太大	3.Do not fly in windy days. The performance and the control of the drone will be affected by the strong winds. 切勿在有风的情况下飞行, 有风会对飞机造成局限, 或会妨碍你的控制飞行
Ascending failure 飞行器不能升高	1.The rotation speed of main blades is too slow. 旋翼转动速度太慢	1.Push up the throttle joystick. 动力操纵杆向上推
	2.The battery of the drone is not fully charged. 飞行器未完全充电	2.Please full charge the drone. 为飞行器完全充电
Landing too soon 飞行器很快便着陆	The throttle joystick is pulled down too fast. 你太快的将动力操纵杆回拉	Pull down the throttle joystick slowly to perform a smooth landing. 慢慢的回拉动力操纵杆让飞行器慢慢着陆
Out of control 失控	Beyond the effective controlling distance. 超出有效遥控距离	Ensure that the flying distance is within 100 meters. 确保飞行距离在100M内



# ACCESSORIES 配件表



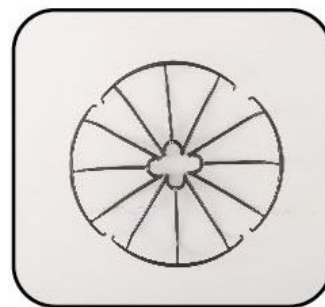
01



02



03



04



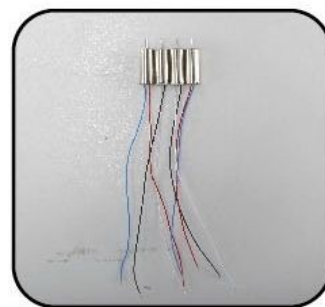
05



06



07



08



09



10



11



12



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14



15



16





















17



18



NO. 编号	Name 名称	Quantity 数量	NO. 编号	Name 名称	Quantity 数量
01 	Upper cover of casing 机壳上盖	1	10 	Flash light 闪烁灯	2
02 	Lower cover of casing 机壳下盖	1	11 	Screwdriver 螺丝刀	1
03 	Propeller 风叶	4	12 	Screw 螺丝	—
04 	Carbon fiber 护架	4	13 	Gear assembly 齿轮组件	—
05 	Undercarriage 落架	4	14 	Gear cover 牙轮盖	4
06 	Li-poly battery 电池	1	15 	USB charger USB充电器	1
07 	Battery cover 电池盖	1	16 	Transmitter 遥控器	1
08 	Motor 电机	4	17 	Camera( only for camera version) 摄像头(仅摄像版有)	1
09 	Receiver 接收板	1	18 	Mobile phone holder (Only for WIFI version) 手机架(仅WIFI版有)	1



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

**NOTE:** 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.

RF exposure warning: The equipment complies with RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**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.

FCC RF Radiation Exposure Statement Caution: To maintain compliance with the FCC's RF exposure guidelines, place the product at least 20cm from nearby persons.