

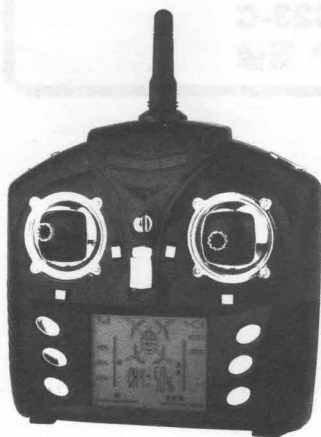


WLtoys



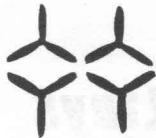
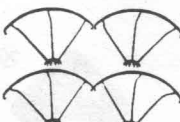
Q323四轴穿梭机

使用说明书

INSTRUCTION MANUAL



Standard Accessories 标准配件

 <p>Charger + balance charge 充电器+平衡充</p>	 <p>7.4V 2300MAH lithium battery 锂电池</p>	 <p>Blade 风叶</p>	 <p>Protection frame 保护架</p>
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Standard Packing List 标配包装清单

NO	PART NAME	零件名称	QUANTITY
1	Instruction Manual	使用说明书	1
2	Aircraft	飞行器	1
3	Charger + balance charge	充电器+平衡充	1
4	7.4V 2300MAH lithium battery	7.4V 2300MAH锂电池	1
5	Blade	风叶	4
6	Remote control	遥控器	1
7	Protection frame	保护架	4

Can Be Upgraded Parts 可升级配件

Q323-B
WIFI FPV

Q323-C
720P 摄像

Q323-E
720P WIFI

Upgrade Parts List 升级配件清单

Num. 货号	Inventory 清单
WIFI	phone stand 手机架
720P	Card reader 读卡器 4G card 4G卡
720P WIFI	4G card 4G卡 Card reader 读卡器 phone stand 手机架

Notice 注意事项

- All instructions, warranties and other collateral documents are subject to change at the sole discretion of our company. For up-to-date product literature, visit <http://www.wlmodel.com>
- 所有的说明，本公司有权更改担保及其他相关文件的权利，更新的信息请访问<http://www.wlmodel.com>

Warning 警告

■ Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury. This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

■ 操作前，请阅读整个说明书以便了解该产品的功能。未能正确地操作本产品可能会导致产品损坏，对人身财产造成严重损害。这是一个复杂的模型产品，而不是一玩具。不仅要谨慎操作，还需要具备操作常识和操作基础。若未能安全使用该产品，会毁坏该产品或者对人身，或者对其他财产造成损失。本产品不供没有成人监督下的儿童直接使用。本手册内容包括安全、操作、维护。因此，在装配，安装或使用产品前。我们必须阅读并遵守本手册中所有的提示和警告，以便正确操作，避免造成损伤或严重伤害。

Additional Safety Precautions and Warnings 附加安全措施防范和警告

1. Age Recommendation: Not for children under 14 years. This is not a toy.
2. Always operate your model in open spaces away from full-size vehicles, traffic and people.
3. Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
4. Always keep all chemicals, small parts and anything electrical out of the reach of children.
5. Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
6. Never place any portion of the model in your mouth as it could cause serious injury or even death.
7. Never operate your model with low transmitter batteries.

1. 年龄建议: 不适合14岁以下的儿童，这不是一个玩具。
2. 始终在开放的空间操作你的模型，远离车辆、交通和人。
3. 必须仔细地遵循操作说明和警告，以及任何可选的支持设备。（充电器，可选充电电池等）
4. 始终保持远离所有的化学品，细小部件跟用电设备需远离儿童接触。
5. 应避免与水接触，尤其此设备的设计不具备防水功能；水汽也会导致电子产品损害。
6. 切勿将模型的任何部件放在嘴里，因为它可能会导致严重受伤甚至死亡。
7. 当发射机电压过低时切勿操作你的模型。

Introduction 简介

- Thank you for choosing Weili product! This is a four-axis aircraft can fly outdoors, in order to make it easier and easier to control the aircraft, please carefully reading this manual before operating this aircraft units, and please keep this manual for future adjustments and maintenance of reference.

感谢您选购伟力产品！这是一台能在室外飞行的4轴飞行器，为了让您更方便，更容易操控飞行器，请您仔细阅读完此说明书，再操作此台飞行器，同时请您妥善保管这本说明书，作为日后调整及维修的参考。

- Before your first flight, please take the time to carefully read this manual containing important flight information, which will help it your first flight, to become a great course.

在你第一次飞行前，请花时间仔细阅读本手册含重要的飞行资料，这将有助便您的第一次飞行，成为一次伟大的历程。

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Warning and the guide of using battery 电池使用警告与向导



The Battery Charger included with the Q323 has been designed to safely charge the Li-Po battery.

Q323附带的电池充电器可以安全的给聚合物锂电池充电。

CAUTION: All instructions and warnings must be followed exactly. Mishandling of Li-Po batteries can result in a fire, personal injury, and/or property damage.

1. By handling, charging or using the included Li-Po battery you assume all risks associated with lithium batteries.
2. If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
3. Always store the battery at room temperature in a dry area for best results.
4. Always transport or temporarily store the battery in a temperature range of 40–120° F. Do not store battery or model in a car or direct sunlight. If stored in a hot car, the battery can be damaged or even catch fire.
5. Never use a Ni-CD or Ni-MH charger. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage.
6. Never exceed the recommended charge rate.
7. Never cover warning labels with hook and loop strips.

注意: 必须严格遵守所有的提示和警告, 不正确处理聚合物电池可能会:

1. 导致火灾、导致人生伤害或财产损失。
2. 通过处理, 充电或使用包括锂电池, 你承担所有与锂电池相关的风险。
3. 在任何时间如果电池开始膨胀, 请立即停止使用; 如果充电或放电, 终止和断开; 继续使用, 充电或放电的膨胀电池, 可能会导致火灾。
4. 电池始终储存在温室下, 在干燥的地方以取得最佳效果。
5. 始终运输或暂时存放在40~120华氏度的温度范围内, 不要存放在模型车内或直射阳光下; 如果在热车中, 电池会被损坏, 甚至着火。
6. 切勿使用镍镉或镍氢电池充电器, 不兼容的充电器充电电池可能会引起火灾, 造成人生伤害和财产损失。
7. 电池电压过低时, 千万不要操作你的设备。

WARNING: Only use the charger supplied by our company. Do not use a 12V power supply or property damage and injury could occur.

警告: 充电时建议使用原厂提供的电源充电器, 否则会导致财产损失和伤害发生。

Notice: When a Li-Po battery is discharged below 3.7V, the battery may be damaged and may no longer accept a charge. Please land the helicopter immediately and recharge the flight battery.

注意: 当低于 6V 时, 锂电池可能会被损坏, 或者可能不再接受充电; 飞机飞行时电池电压低于 6.6V 时, 飞行动力下降明显, 请立即降落并且及时给电池充电。

Battery Charging 电器充电

WLTOYS 1-cell 7.4V Balance Charger

WLtoys 1节7.4V平衡充电器

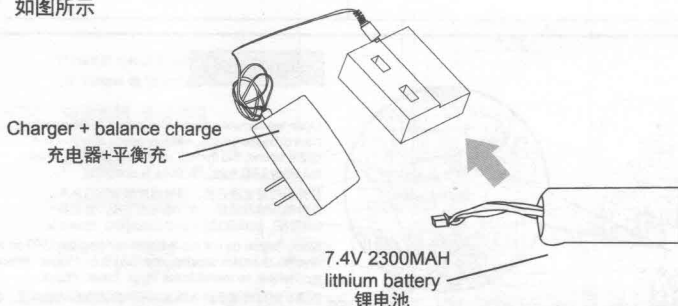
Instructions:

With great power distribution UFO dedicated charger. Poly rechargeable lithium insertion balance in the direction of the arrow.
as the picture shows

说明:

用伟力配送的飞碟专用的充电器。将聚锂电池按箭头方向插入平衡充。

如图所示



Notice: Only use the charger provided by WLtoys

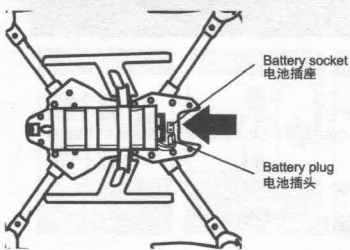
Notice: Never attempt to power the charger from an AC outlet without the use of a proper AC to DC adapter/power supply.

注意: 只能使用 WLtoys 提供的充电器

注意: 请勿尝试无任何交流转换直流装置。

First Flight preparation CAUTION 飞前注意事项

1. Make sure the power is sufficient.
 2. When turning the power switch on, make sure the throttle stick is in the middle.
 3. Confirm whether the aircraft with the same frequency, if abnormal please re-code. Throttle up and down to pull the rocker, light is lit on the code. Horizontal put UFO, throttle stick with the direction of the lower left corner of the rocker while playing the calibration, flashing lights stop calibration is good.
 4. Throttle stick to play the lower left corner while playing the direction of rocker unlock the lower right corner, or throttle stick to play the lower right corner while the direction of the lower left corner to unlock the rocker to push the throttle to take off.
 5. Looking for a suitable venue flight, away from the crowds, cars, high-voltage towers, reservoirs, etc., can be carried out safe and enjoyable flight
1. 确认电源是否充足。
 2. 打开电源开关时, 请确认油门摇杆在中间。
 3. 确认与飞行器是否同频, 如果异常请重新对码。油门上下拉摇杆, 灯常亮即对上码。水平放好飞碟, 油门摇杆跟方向摇杆同时打左下角校准, 灯闪停校准好。
 4. 油门摇杆打左下角同时方向摇杆打右下角解锁, 或油门摇杆打右下角同时方向摇杆打左下角解锁, 推上油门即可起飞。
 5. 寻找一个合适飞行的场地, 远离人群、车、高压电塔、水塘等, 方可进行安全愉快的飞行。



Step 1 步骤 1

Put the Li-Po battery into the position of the battery compartment according to the direction shown in the picture, and then insert the battery plug. At this time, the fuselage LED light will flash. Do not move the fuselage at this time, The instrument reads the neutral point.

将飞行器置于平坦位置后，将Li-Po电池依图示方向推入飞碟电池仓位置插上电池插头，此时机身LED灯闪烁此时不要再移动机身，使遥控器对频与陀螺仪读取中立点。

Step 2 步骤 2

Open the remote control power switch, the remote control beeps sound, a few seconds after the end of the sound, the throttle stick up and down, when the body LED light, the code is complete.

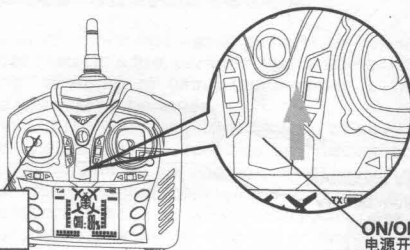
打开遥控器电源开关，遥控器发出滴滴的响声，几秒钟后响声结束，油门摇杆上下拉，当机身LED常亮，对码完成。

Note! Please do not put the time code on the UFO on the uneven or shake desktop, resulting in prolonged detection gyroscope, so the code too long.

注意！对码时请不要把飞碟放在不平的或有抖动的桌面，导致检测陀螺仪时间延长，使对码时间过长。



Throttle stick pushed to the middle
油门摇杆推至中间



ON/OFF
电源开关

Step 3 步骤 3

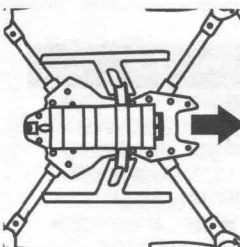
Remove the flight vehicle battery safely at the conclusion of flight, this should be made into a post flight habit to avoid unforeseeable problems.

结束飞行时，请将飞行器电池安全取下，请养成良好习惯以免造成遗憾。



Warning: If left connected in the flight vehicle for long duration, the battery may be damaged due to over-discharge, or even become fire hazards.

电池未取下，将导致电池过放电而损坏，甚至造成起火燃烧的危險。



Li-Po
锂聚合物电池
7.4V 2300MAH

Step 4 步骤 4

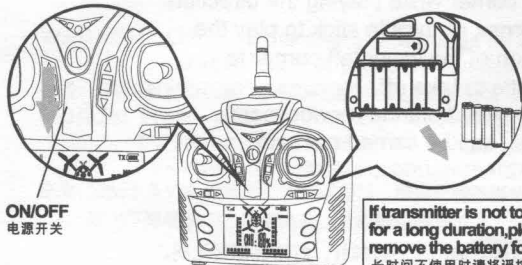
Turn off the transmitter. If transmitter is not to be used for a long duration, please remove the battery for storage.

关闭发射器电源，长时间不使用时请将遥控器电池取出并妥善保管。



Warning: If the AA batteries are left in the transmitter, potential leakage could occur which may damage the transmitter, and create fire hazards.

电池未取下，将导致电池漏液而损坏遥控器，甚至造成起火燃烧的危險。

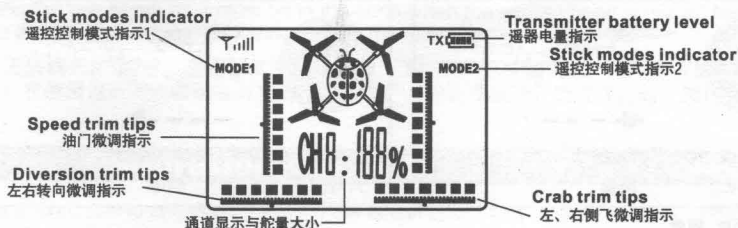
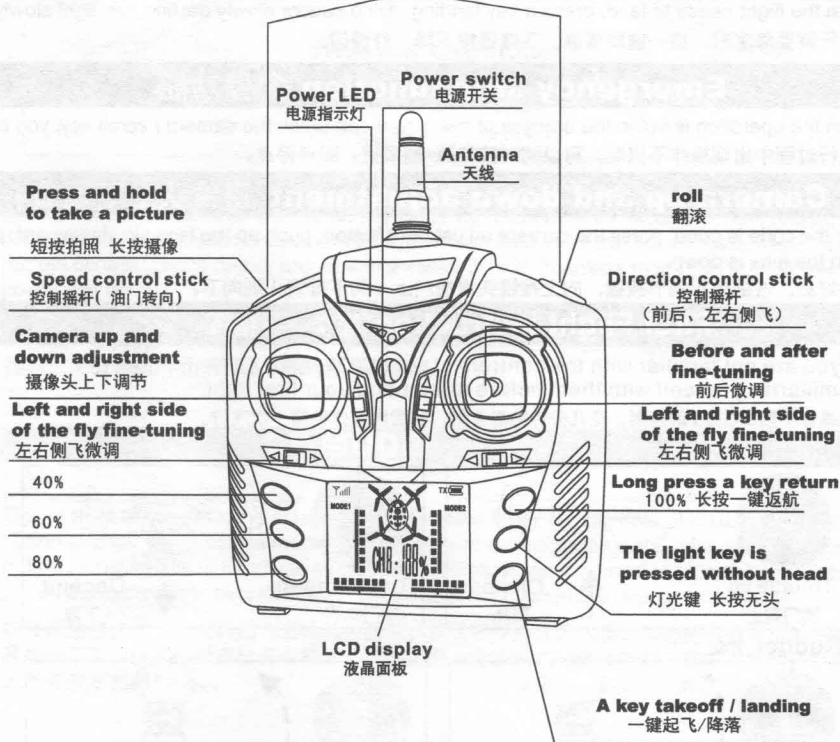


ON/OFF
电源开关

If transmitter is not to be used for a long duration, please remove the battery for storage.
长时间不使用时请将遥控器电池取出并妥善保管。

While pressing the emergency stop

同时按急停



A key take-off 一键起飞

When the level of calibration gyro, press a key to take off, UFO vertical rise of 1.5 meters.
当水平校准陀螺仪后, 按一键起飞键, 飞碟垂直上升1.5米左右。

A key landing 一键降落

When the flight needs to land, press a key landing, flying saucer slowly decline, the light slowly flash.
当飞行需要降落时, 按一键降落键, 飞碟缓慢下降, 灯慢闪。

Emergency stop function 急停功能

When the operation is not in the process of flying, you can press the camera / scroll key, you can stop.
当飞行过程中出现操作不当时, 可以同时按拍照/翻滚键, 即可停止。

Camera up and down adjustment 摄像头上下调节

After the code is good, press the camera adjustment button, push up the lens slowly upward; push down the lens is down.

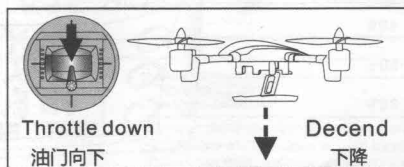
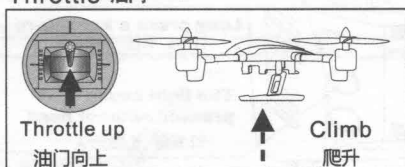
对码好后, 按摄像头调节按键, 向上推镜头慢慢向上; 向下推镜头则向下。

First Flight instruction 首次飞行指挥

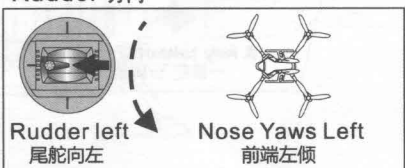
If you are not familiar with the controls of your Q323, take a few minutes to familiarize yourself with them before attempting your first light.

如果你不熟悉Q323的控制, 花几分钟熟悉它们, 然后尝试你的第一次飞行。

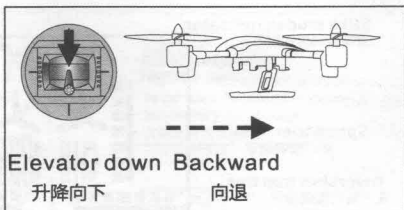
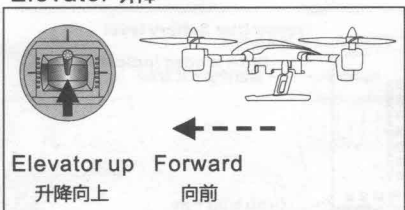
Throttle 油门



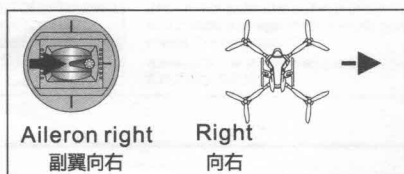
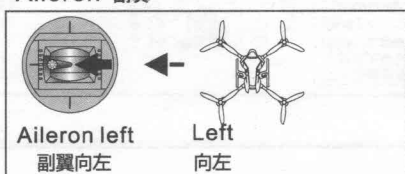
Rudder 方向



Elevator 升降



Aileron 副翼



3D Rolling 3D翻滚



★ When the basic action in front are very skilled when you can play some thrilling tumbling action, then the amount of any rudder the upper right corner of the remote control button, the remote control issued a continuous beep sound, then enter the 3D roll state, then playing remote control Device rocker any side to achieve 3D roll, headless mode can not roll, low power can not roll.

★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，再任何舵量按一下遥控器右上角按键，遥控器发出连续的滴滴响声，此时进入3D翻滚状态，这时打遥控器摇杆任何方实现3D翻滚，无头模式下不能翻滚，低电也不能翻滚。

CF MODE 无头模式

On the front of the UFO, the sound drops after take-off by remote control code headless mode button to enter the headless mode from the remote control at the same time, press the mode button to exit headless headless mode Note: You must use the headless mode before being put on the code of the aircraft ! When people can not change the direction of control!

把飞碟放在正前方，对码起飞后按遥控器无头模式按键进入无头模式同时遥控器发出的滴滴声响，再按一下无头模式按键退出无头模式。注意：使用无头模式时必须在对码前把飞机放正！操控时人不能改变方向！

Automatic return by a button 一键返航

Press headless mode button 2 seconds, the remote control occur by bit noise, aircraft tail light flashes quickly, the aircraft began to return.

Note! In the use of return; it must be in the code when the aircraft head is placed just before. And when in flight, super control cannot change the direction.

长按无头模式按键2秒，遥控器发生滴滴响声，飞行器尾灯快速闪烁，飞行器开始返航。

注意！在使用返航时：必须在对码时把飞行器的头朝正前放正。且在飞行时，操控者不能改变方向。

Calibration aircraft 飞行器的校准

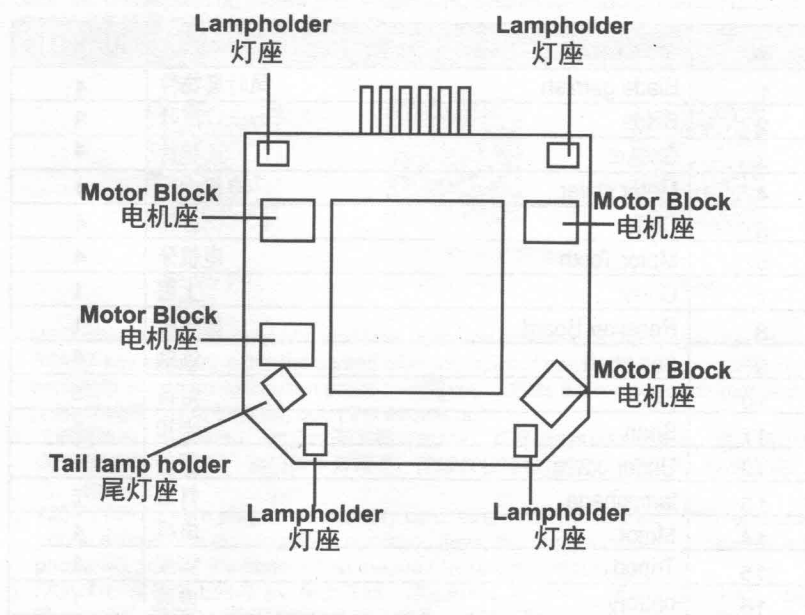
If the aircraft due to collision or replace the circuit board and cause instability in flight, can be calibrated at the gyroscope, in what amounts to two joysticks rudder simultaneously for 2 seconds to play in the end to the lower left corner, then aircraft lights flash, a few seconds bell LED is lit, calibration is complete.

如果飞行器因碰撞或更换电路板而引起飞行不稳定，可以校准一下陀螺仪，在何舵量下把两个摇杆同时向左下角打到底2秒钟，这时飞行器的指示灯闪，几秒钟指示灯为常亮，校准完毕。

Troubleshooting Guide 如何排除飞行中的异常

	Situation 状况	Cause 原因	Way to deal 对策
1	Receiver status LED blinks continuously for more than 4 seconds after helicopter battery inserted. No response to control input. 接上飞行器电池接收器指示灯持续闪烁, 操作无反应	Unable to bind to transmitter. 遥控器与接收器未对频成功	Repeat the power up initializing process. (Refer to P.6: Binding of radio transmitter and receiver) 请从新执行遥控器与接收板的对频动作 (请参阅P. 7遥控器与接收器的对频)
2	No response after battery is connected to helicopter. 接上飞行器电池后飞行器没有任何反应	1. power to transmitter and receiver. 2. Check transmitter and receiver voltage. 3. Poor contact on battery terminals. 1. 检查遥控器和接收器是否接通电源 2. 检查遥控器和接收电池的电压 3. 电池极片接触不良	1. Turn on transmitter and ensure flight vehicle battery is inserted properly. 2. Use fully charged batteries. 3. Re-seat the battery and ensure good contact between battery contacts. 1. 打开发射器与确实插入飞行器电池至定位 2. 使用完全充电充满的电池 3. 从新插入电池, 确认电池和电池极片的接触是否良好
3	Motor does not respond to throttle stick, receiver LED flashes. 推动油门摇杆时马达不转, 且接收器指示灯开始闪烁.	Helicopter battery depleted. 飞行器锂电池电量不足	Fully charge the battery, or replace with a fully charged battery. 将电池充电或更换另一个充满的电池
4	Main rotor continue to spin after landing 降落之后, 主旋翼仍在旋转未停止	No zero throttle 油门没有归零	The throttle return to the zero position 把油门归到零位
5	Main rotor spins but unable to takeoff. 飞行器主旋翼有持续转动但不能起飞	1. Rotor deformation 2. Helicopter battery depleted 1. 旋翼变形 2. 飞行器电池电量不足	1. Replace main blades 2. Charge or replace with a fully charged battery. 1. 更换主旋翼 2. 将电池充电或是更换另一个充满的电池
6	Strong vibration of helicopter 飞行器震动得很厉害	1. Rotor deformation 1. 旋翼变形	1. Replace the rotor 1. 更换旋翼
7	Tail still off trim after tab adjustment, or inconsistent speed during left/right pirouette. 已调整方向微调, 但机身仍会打转, 左旋/右旋速度不一致	1. Damaged tail rotors 2. Damaged tail drive motor 1. 旋翼变形 2. 马达不良	Replace the rotor Replace the main motor 更换旋翼 更换主马达
8	Helicopter still wonders forward after trim adjustment during hover. 飞行器会往前或往后偏移	1. Elevator servo not level during power up. 2. Elevator pushrod too long or too short. 舵线中点不对。	The boot will lift fine-tune the normalized neutral point, the new boot. 开机后将升降微调归中立点, 从新开机。
9	Can not fly the aircraft fall 飞行器跌落后再飞不起来	1. motor fall out 2. gear loosen 1. 电机脱落 2. 齿轮松脱	1. install the motor again 2. tighten the gear 1. 从新装回电机 2. 把齿轮紧固
10	Large deviations headless mode 无头模式偏差较大	partial release of the aircraft when the code 对码时飞行器放偏	to put the aircraft on time codes are 对码时飞行器要放正
11	Given the high error is larger 定高误差较大	Vibration larger aircraft 飞行器震动较大	Check whether the propeller vibration 检查螺旋桨是否震动

Schematic circuit board 电路板示意图



Parts List 零件清单

NO	PART NAME	零件名称	QUANTITY
1	Blade garnish	风叶装饰件	4
2	Blade	风叶	8
3	Gasket	垫片	4
4	Motor cover	电机上盖	1
5	Cone	牙轮	4
6	Motor Tooth	电机牙	4
7	Cover	上盖	1
8	Receiver Board	接收板	1
9	Iron shaft	铁轴	4
10	Light	灯条	5
11	Snap	卡扣	1
12	Under cover	下盖	1
13	lampshade	灯罩	5
14	Motor	电机	4
15	Tripod	脚架	1
16	battery	电池	1

Helicopter Parameters 飞行器参数

Length	对角长度	500 mm
Height	高度	105 mm
Blade length	风叶长度	153 mm
Battery Specification	电池规格	7.4V 2300MAH
Flight time	飞行时间	15 min

WIFI operating instructions WIFI操作说明

Scan the corresponding mobile phone operating system APP two-dimensional code download.
扫描对应手机操作系统的APP二维码下载。



Google play

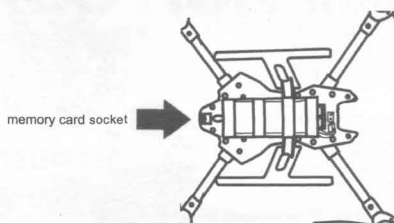


Android

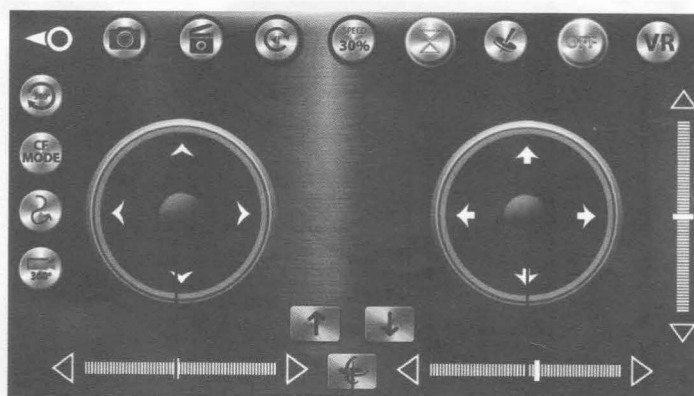


iOS

1. UFO after power, connect wifi, and then open the downloaded APP, open and press the START key to enter, enter the screen after the point of open and then press key, throttle back light is lit, gyro calibration press the key, Lights flash stop, calibration is completed, press the key to take off, push the throttle up.
1. 飞碟通电后，连接wifi，然后打开下载好的APP，打开后按START键进入，进入后出现画面后，点OFF开启再按 键，油门回中灯常亮，陀螺仪校准按 键，灯闪停，校准完成，按 键起飞，推油门上升。



2. 720P WIFI camera plug in the memory card, plug in UFOs, connect WIFI, open APP, mobile phone screen, the mobile phone operation keys, the remote control by camera and camera phone will prompt the state, when the map More convenient flight.
2. 720P WIFI摄像头插上内存卡、插上飞碟、连接WIFI、打开APP、手机出现画面后，不动手机操作键，遥控器按拍照和摄像时手机会提示状态，手机当图传用，实现更方便飞行。



accelerator
油门

calibration
校准

direction
方向



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