

# V272

MINI MULTIFUNCTIONAL FOUR AIRCRAFT

## 超迷你四轴飞行器

### INSTRUCTION MANUAL

## 使用说明书



**WLtoys**

**Helicopter  
In The House!**

**2.4G**



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Thank you for buying WLTOYS products. The V272 is the latest technology in Rotary RC models. Please read this manual carefully before assembling and flying the new V202 helicopter. We recommend that you keep this manual for future reference regarding tuning and maintenance.

承蒙阁下选用 伟力遥控世界系列产品, 谨表谢意。进入遥控世界之前必须告诉您许多相关的知识与注意事项, 以确保您能够在学习的过程中较得心应手。在开始操作之前, 请务必详阅本说明书, 相信一定能够给您带来相当大的帮助, 也请您妥善保管这本说明书, 以作为日后参考。



## 1. INTRODUCTION 前言




Thanks for using wtoys products. This is the first helicopter which can fly outdoor in a wild weather. In order to play Helicopter more convenient and easy, please read it carefully before playing. Meanwhile, please keep it well, and take it for reference when adjustment and maintenance.

感谢您选购伟力产品！这是一台能在较小空间及室外飞行的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后，再操作这台飞行器，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。

flight vehicle can satisfy you whatever rainy or sunny, even when outdoor wild grade 3-4, it will keep moving.

飞行器，无论何时何地，不管晴天雨天，包括室外风力不大于3-4级，都可以满足您对飞行的渴望。

### WARNING LABEL LEGEND 标志代表含义

	<b>WARNING 警告</b>	Mishandling due to failure to follow these instructions may result in damage or injury. 因为疏忽这些操作说明，而使用错误可能造成财产损失或严重伤害。
	<b>CAUTION 注意</b>	Mishandling due to failure to follow these instructions may result in danger. 因为疏忽这些操作说明，而使用错误可能造成危险。
	<b>FORBIDDEN 禁止</b>	Do not attempt under any circumstances. 在任何禁止的环境下，请勿尝试操作。

### IMPORTANT NOTES 重要声明

It is not a toy. Mini quad copter it is, but still dangerous, please play it according to the user manual. Any assemble or improper operation is limited, otherwise will lead to accident.

飞行器并非玩具，虽然是微型的遥控四轴飞行器，但是仍然有一定的危险性，请您依安全注意事项与操作说明来正确的使用该模型，任意的改装拆解或使用不当以及产品的不熟悉，都可能造成不可预期的危险或意外，请勿轻忽。

Attention, manufacture or distributor would not respond to any duty when your spare part is out of use, improper assemble and unsafety used. It is suitable to 15+, we could not response to your lose and injury for wrong operation.

注意！任何遥控飞行器的使用，制造商或经销商是无法对用户于零件使用的损耗异常，组装不当或不安全的环境操作所发生的意外负任何责任，本产品适用年龄15岁以上，请确保在安全无虞的环境下操作，产品售出后本公司不负责任不当操作/拆卸/改装所引起的财产损失与人身伤害。

Model hobby require high technical to play and easy damage, after unpacked, will cause spare part spoilage, we will consider the return condition according to its status. If you meet the problem to replace the spare part, we will offer maintenance at our best price.

模型商品属于需高操作技术且为消耗性商品，如经拆装使用后，会造成不等情况零件损耗，任何使用情况造成商品不良或不满意，将无法于保固条件下更换新品或退货，如遇有使用操作维修问题，本公司全省分公司或代理将提供技术指导，特价零件供应服务。

## 2. SAFETY NOTES 安全注意事项



**CAUTION 注意**  
Mini model quad copter, also a dangerous toy. You had better play it far from the group. Any improper assemble or damage part or unfamiliar control may lead to accident. Player should pay attention to the safety.

遥控模型飞碟，四轴飞行器属于危险性商品，飞行时务必远离人群，人为组装不当或机件损坏、电子控制设备不良，以及操控上的不熟悉，都有可能造成飞行失控损伤等不可预期的意外，请飞行者务必注意飞行安全，并需了解自疏忽所造成任何意外之责任。

**FORBIDDEN 禁止**  
Special despecial design for indoor & outdoor, please keep it away from obstacle 室内、室外专用机，请远离障碍物

This product is suitable for indoor and outdoor playing. Please choose the space without obstacle, and keep distance from the people and pets. Don't play it near heat and lines and power source to avoid crash and electric hit or fire, take care.

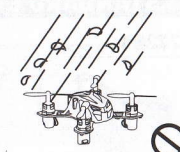
本产品适合室内、室外（包括室外风力不要大于4级）环境飞行的遥控飞行器，飞行时请妥善选择无障碍的室内、室外场地，并人群或宠物等保持适当距离，切勿于不安全的环境下操作，如热源、电线、电源等等，以免飞行器碰撞、迫降、纠缠而引起火灾、电击等危险，造成生命财产损失。



### PREVENT MOISTURE 远离潮湿环境

R/C models are composed of many precision electrical components. It is critical to keep the model and associated equipment away from moisture and other contaminants. The introduction or exposure to water or moisture in any form can cause the model to malfunction resulting in melfunction, or a crash. Do not operate or expose to rain or moisture.

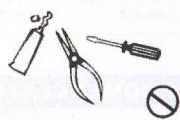
飞行器内部也是由许多精密的电子零组件组成，所以必须绝对的防止潮湿或水汽，避免在浴室或雨天时使用，防止水汽进入机身内部而导致机件及电子零件故障而引发不可预期的意外！



### PROPER OPERATION 勿不当使用本产品

To avoid potential fire hazard from batteries, please do not short, reverse polarity, or puncture batteries. Battery charging must be done under supervision at all times, and at location out of reach by children. Double check the four AA batteries are rechargeable Ni-CD/MH batteries before charging. The manufacturer or this product will not be liable for accidental damages incurred by charging non-rechargeable batteries.

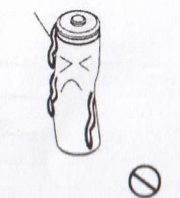
请勿任意拆卸或任意改造加工，任何的升级改装或维修，请使用伟力产品目录的零件，以确保结构的安全。请确认于产品界限内操作，请勿过载使用，并勿用于安全法令外其它非法用途。



### SAFETY NOTE FOR NI-MH BATTERIES 镍氢电池使用安全

Make sure the batteries are installed based on polarity indicated in the case and do not mix batteries of different chemistry/spec. Please take out the batteries if you are not going to use for a long time to avoid potential leakage which may damage the transmitter. Please dispose depleted batteries according to local laws and ordinances. Do not dispose improperly.

安装时请确认正负极位置，新旧电池请勿同时混用以免影响电池寿命。若长时间不使用本产品，请取出电池，以免造成电池漏液、故障。若电池有漏液状况请勿使用。废弃的电池，请依照该使用国家或地区的废弃物清理法令回收，切勿任意丢弃以免污染环境。

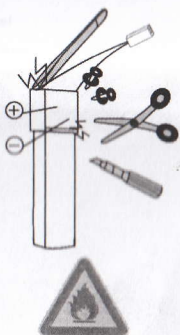


### SAFETY NOTE ON LI-POLYMER BATTERIES 锂聚合物电池使用安全

Li-Polymer batteries poses higher operational risks compared to other battery chemistry, thus it is imperative to follow its usage instructions. Manufacturer and dealer assume no liability for accidental damages caused by improper usage. Do not use charger other than the factory supplied unit to avoid potential fire and explosion. Do not crush, disassemble, burn, and reverse polarity. Avoid metallic materials to come into contact with battery's polarity and cause it short and never puncture batteries to avoid fire hazards.

Battery charging must be done under supervision at all times, and at location out of reach by children. Please stop the use or charge of the battery should there be an unusual increase in battery temperature after use. Continue use of this battery may cause it to expand, deform, explode, or even result in fire hazards.

Please dispose depleted batteries according to local laws and ordinances. Do not dispose improperly. 锂聚合物电池较其它电池有更高的危险性，使用请务必详读并遵照下列注意事项使用本电池，本公司将不对任何不当使用所造成的损害负责。严禁使用原厂以外的充电器进行充电，以免发生爆炸起火的风险。严禁撞击、拆解、正负极反接、焚烧电池，避免金属物品碰触电池正负极造成短路。并请防止尖锐的物品刺穿电池，以避免电池起火的风险。充电时请谨慎小心，确保在您的视线范围内进行充电。并远离幼童可以接触的地方，以免发生危险。电池使用后如有发热情况，严禁充电。否则会造成电池膨胀、变形、爆炸甚至起火燃烧，危害生命财产的安全。废气的电池，请严格依照该使用国家或地区的废弃物清理法令回收，以免污染环境。



### KEEP AWAY FROM HEAT 远离热源

R/C models are made of various forms or plastic. Plastic is very susceptible to damage or deformation due to extreme heat and cold climate. Make sure not to store the model near any source of heat such as an oven, or heater. It is best to store the model indoors, in a climate-controlled, room temperature environment.

飞行器多半是以PA纤维或聚乙烯、电子商品为主要材料，因此要尽量远离热源、日晒，以避免因高温而变形甚至溶毁损坏的可能。



### OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT 避免独自操控

The products are suitable for more than 15 years old age. At the beginning it will have some certain difficulty in learning, suggestion guidance by experienced when playing.

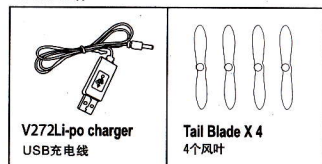
本产品适用年龄15岁以上，遥控四轴飞行器在学习初期有着一定难度，建议要有经验的人士在旁指导才可以飞行。



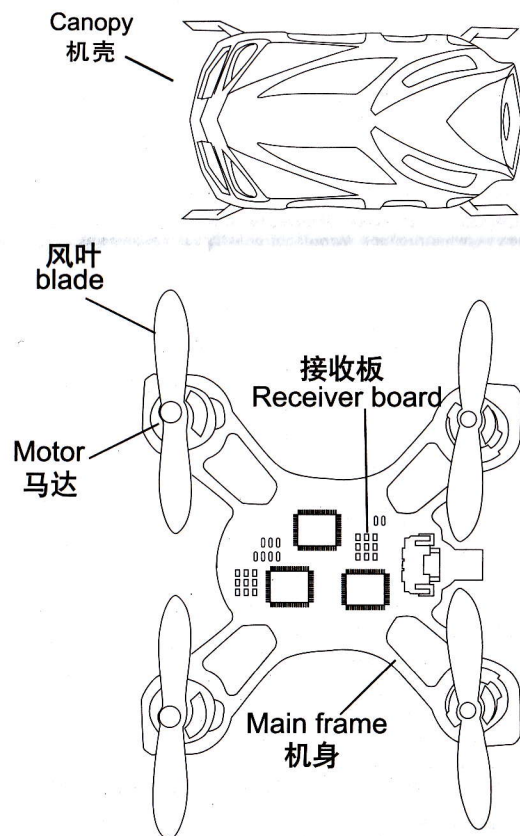


### 3.STANDARD EQUIPMENT 标准配件

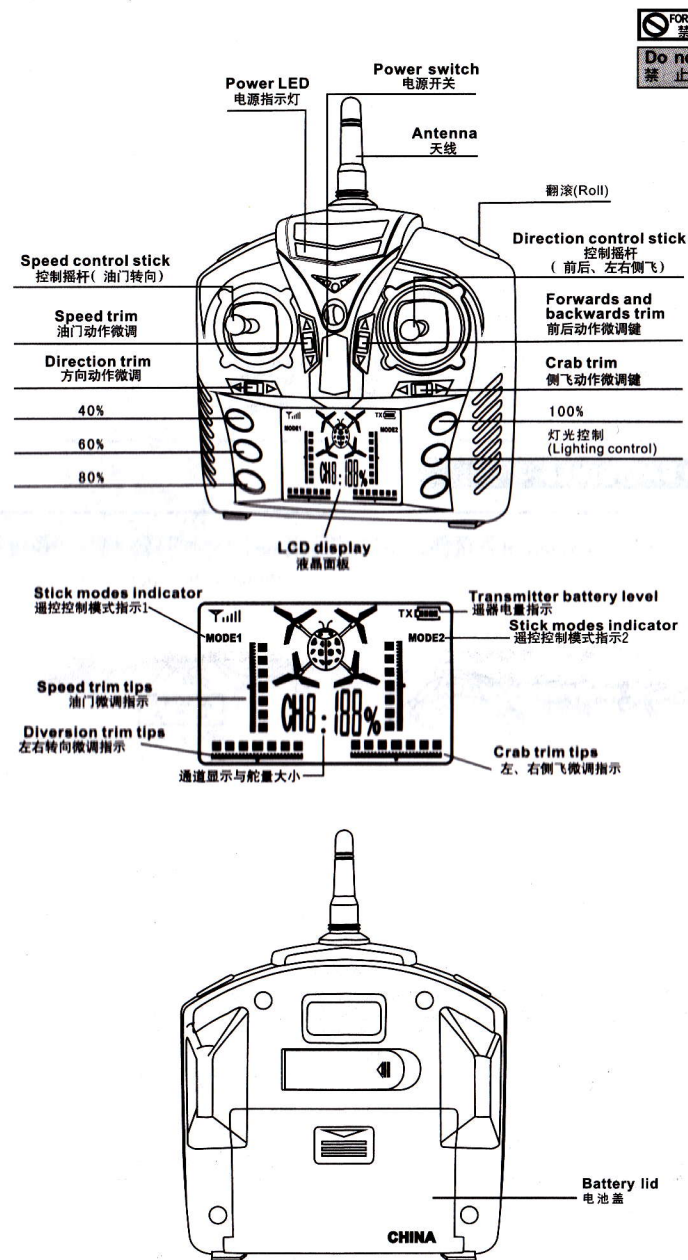
#### V272配件



### 4.NOMENCLATURE 飞行器各部位名称



### 5.NOMENCLATURE 遥控器各部位名称



## 6. TRANSMITTER BATTERY INSTALLATION 遥控器电池安装

**Step 1**

Slide the battery lid to open by following the arrow.  
请依箭头方向先将电池盖打开。

**Step 2**

Trasmitter 遥控器

Do not disassemble 禁止任意拆解

Please use 6 AA sized batteries, installed based on polarity indicated case. Do not mix batteries of different chemistry/spec.  
请使用6颗5号电池(AA),并依正负极性方向组装。(勿混用不同规格电池)

Battery lid 电池盖

## 7. CHARGING BATTERIES 电池的充电

Use the charging line of the controller to charge the helicopter 利用遥控器上的充电器给飞行器电池充电

With the distribution of special USB charging cable, charging cable into the charging port for charging UFO.  
用伟力配送的专用USB充电线,把充电线插入飞碟充电口进行充电。

**WARNING 警告**  
For safety concerns, battery charging must be done under supervision at all times.  
为确保安全,充电时务必在视线范围内进行。

**CAUTION 注意**

**LED Indicator LED 表示**

Red light on 红灯亮	Red light off 红灯灭
Charge Completion 充电完成	Charging 充电中

**Charger Specifications 充电规格**

Input 输入	Charging Current 充电电流	Full Voltage 充电电压
5V	200MAH	4.2 ± 0.03V

## 8. BATTERY AND CHARGER SPECIFICATION 电池与充电器相关规格

Battery usage and charge duration reference 电池使用时间参考表			
Battery type 电池种类	Battery Specification 电池规格	Usage Duration 可使用时间	Charge Time 充电所需时间
Li-po battery 锂聚合物电池	3.7V 100mAh	Helicopter flight time 飞行器飞行时间 Approx. 4 Minutes 约4分钟	Approx. 30 Minutes (Charging current approx. 0.2A) 约30分钟(充电电流约0.2A)
Carbon-Zinc (Non Rechargeable) 碳锌电池(不可充电)	1.5V (GP 15G R6P)	Transmitter Operation Time 供遥控器开机时间 18 Hours 用18小时	Non Rechargeable 不可充电

## 9. BINDING OF RADIO TRANSMITTER AND RECEIVER 遥控器与接收器的对频

**Step 1 步骤1**

Turn on the power switch of aircraft, the aircraft will be placed in a flat position, the status indicator flashes at this time not to move the body, so that the gyroscope read midpoint.  
打开飞行器电源开关,将飞行器置于平坦位置,状态指示灯闪烁此时不要再移动机身,让陀螺仪读取中点。

Turn the power switch

**Step 2 步骤2**

Open the remote control power switch, push the throttle stick from the lowest to the highest, and then pulled a minimum of code to complete.  
打开遥控器电源开关,把油门摇杆从最低推到最高,然后拉到最低,对码完成。

ON/OFF 电源开关

**Step 3 步骤3**

After the flight, please turn off the power switch, so as to avoid excessive battery discharge.  
飞行结束后,请把电源开关关闭,以免电池过放。

Turn off the power switch

**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。

ON/OFF 电源开关



## 10. FLIGHT ADJUSTMENT AND SETTING 飞行动作调整与设定

### PLEASE PRACTICE SIMULATION FLIGHT BEFORE ACTUAL FLYING 飞行前请站先熟悉模拟飞行

Before you are familiar with the flight vehicle, please don't set it fly, read the instruction carefully. Get familiar with all kinds of direction control and keep repeating until you can play it as you perform your wishes.

1. Place the flight vehicle in a clear open field and the tail of helicopter point to yourself.
2. Practice to operate the throttle stick (as below illustration) and repeat practicing "Throttle high/low", "Aileron left/right", "Rudder left/right", and "Elevator up/down".
3. The simulation flight practice is very important, please keep practicing until the fingers move naturally when you hear operation orders being called out.

在还没有了解飞行器各个动作的操控前，严禁实机飞行，请先阅读说明书，熟悉各种方向的操控并不断的重复，直到手指可熟练的控制各种动作以及方向。

1. 将飞行器在空旷的地方，并将飞行器背面对准自己。
2. 练习操作遥控器的各摇杆（各动作的操作方式如下图），并反复练习油门高/低、副翼左/右、升降舵前/后及方向舵左/右操作方式。
3. 模拟飞行的练习相当重要，请重复练习直到不需要思索，手指能自然随着喊出的指令移动控制。

Mode	Illustration 图示	Mode	Illustration 图示
Aileron 副翼		Throttle 油门	
Elevator 升降/前后		Rudder 方向	

### FLIGHT ADJUSTMENT AND NOTICE FOR BEGINNERS 初学飞行调整与注意

#### CAUTION 注意

- Check if the screws are firmly tightened
- Check if the transmitter and receivers are fully charged.
- 再次确认螺丝是否锁固？
- 发射器和接收器电池是否足够。

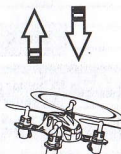
#### CAUTION 注意

- Make sure that no people or obstructions in the vicinity.
- You must first practice hovering for flying safety, this is a basic flight action. (flight vehicle means keeping the helicopter in mid air in a fixed position)
- Please stand approximately 2m diagonally behind the helicopter.
- 确认临地地区没有人和障碍物。
- 为了飞行安全，你必须先练习悬停，这是飞行动作的基础（悬停：飞行器滞留空中并保持固定位置）。
- 练习时，请站在飞行器后方2公尺。

When arriving at the flying field.  
请在没有人和障碍物的空旷室内、室外飞行

### STEP 1 THROTTLE CONTROL PRACTICE 油门控制练习

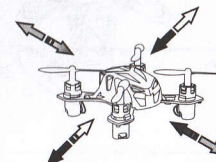
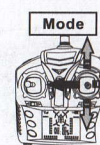
#### Mode



When the flight vehicle begins to lift-off the ground, slowly reduce the throttle to bring the flight vehicle back down. Keep practicing this action until you control the throttle smoothly.

当飞行器离地后，慢慢降低油门将飞行器降下。持续练习飞行器从地上升和下降知道你觉得油门控制很顺。

### STEP 2 AILERON AND ELEVATOR CONTROL PRACTICE 副翼和升降控制练习



1. Rise the throttle stick.
2. Play the flight vehicle as below: forward, backward, left, right, and then slowly move the Aileron and throttle stick to fly back to its original position.

1. 慢慢升起油门摇杆
2. 使飞行器依指示：移动向后/向前/向左向右，慢慢的反向移动副翼和升降摇杆并将飞行器开回原来位置。

#### CAUTION 注意

- If start from please lower the throttle stick and land the flight vehicle. Then move your position diagonally behind the flight vehicle 2m and continue practicing.
- If the flight vehicle flies too far away from you, please land the flight vehicle and move your position behind 2m and continue practicing
- 当飞行器偏移时，请降低油门并且降落，然后移动到自己的位置到飞行器的正后方2公尺再继续练习。
- 假如飞行器离你太远，请先降飞行器，并到飞行器后2公尺再继续练习。

### STEP 3 RUDDER CONTROL PRACTICING 方向舵操作练习

1. Slowly raise the throttle stick.
2. Move the nose of the flight vehicle to right or left, and then slowly move the rudder stick in the opposite direction to fly back to its original position.

#### STEP 4

After you are familiar with all actions from Step 1 to 3, draw a circle on the ground and practice within the circle to increase your accuracy.

当你觉得Step1-3动作熟悉了，在地上画圈并在这个圈的范围内容练习飞行，以增加你的操控的准确度。

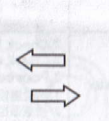
- You can reduce the size of the circle as you become familiarized with the control reflexes.

当你更加习惯操作动作，你可以画更小的圈。

### STEP 5 DIRECTION CHANGE AND HOVERING PRACTICE 改变直升机方向和练习悬停

After you are familiar with Step 1 to 4, stand at side of the helicopter and continue practicing Step 1 to 4. Then repeat the Step 1 to 4 by standing in front of the helicopter.

当你觉得step1-4动作熟悉了站在面对飞行器侧边并继续练习step1-4.之后，站在飞行器前方重复步骤练习。



### ADJUSTMENT OF EACH TRIM 飞行动作微调

Slowly raise the throttle stick and just as the helicopter lift-off the ground, you can use the trim to correct the action if the helicopter leans in a different direction. 慢慢升起油门摇杆，当飞行器刚刚离开地面时，若飞行器倾向不同方向，可使用微调修正动作。

1. Adjustment of rudder trim 调整方向舵微调  
Just before the helicopter lift-off, the nose lean left/right...

When leans right, adjust the trim to left side.  
When leans left, adjust the trim to right side.

在飞行器正要起飞时，飞行器朝左/右方向偏移...

向右偏移时，微调向左调整。

向左偏移时，微调向右调整。

2. Adjustment of elevator trim 调整升降舵微调  
Just before the helicopter lift-off, the nose lean forward/backward...

When leans forward, adjust the trim to down.

When leans backward, adjust the trim up.

在飞行器正要起飞时，飞行器朝前/后方向偏移...

向前偏移时，微调向下调整。

向后偏移时，微调向上调整。

3. Adjustment of aileron trim 调整副翼微调

Just before the helicopter lift-off, the body lean left/right...

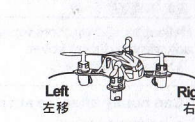
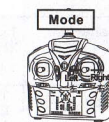
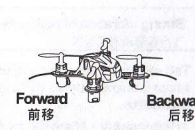
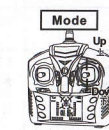
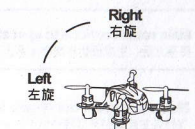
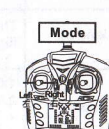
When leans right, adjust the trim to left side.

When leans left, adjust the trim to right side.

在飞行器正要起飞时，飞行器朝左/右方向偏移...

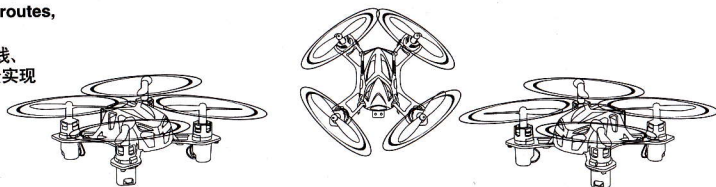
向右偏移时，微调向左调整。

向左偏移时，微调向右调整。





Stable, flexible, flight routes,  
Drift, 3D to roll easily  
飞行稳定、灵活、航线、  
甩尾、3D翻滚动作轻松实现



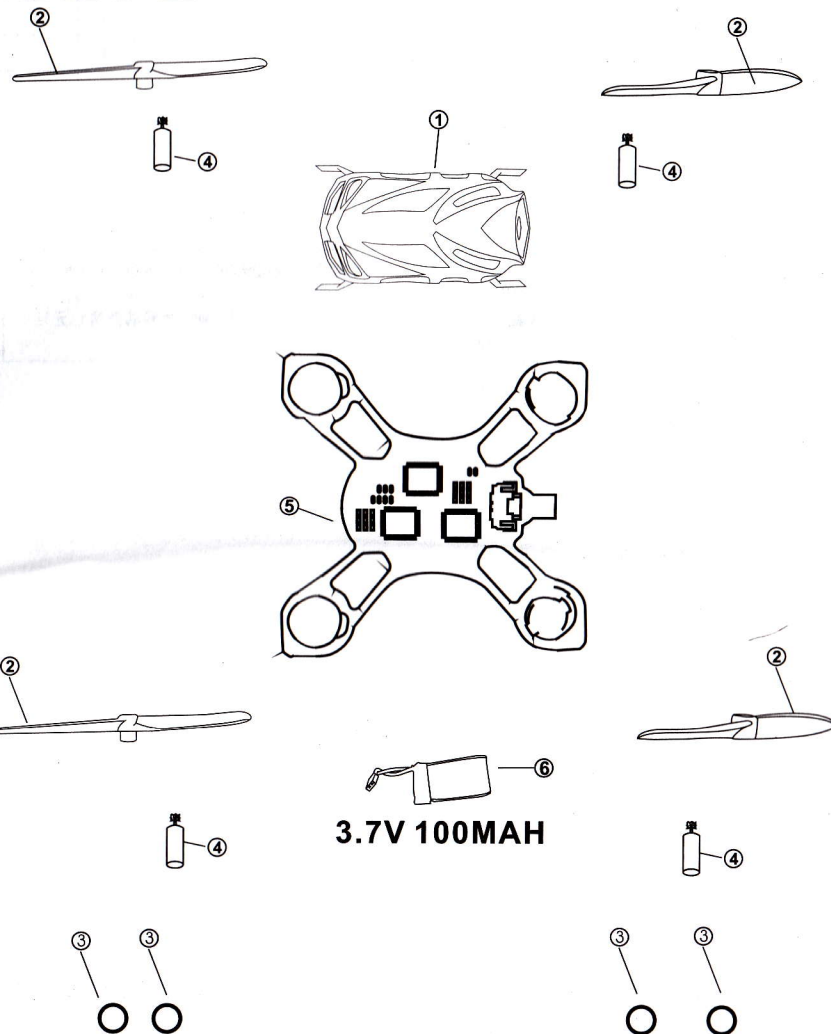
- ★当前面的基本动作都很熟练时就可以玩一些惊险的翻滚动作，在任何舵量按一下遥控器右上角按键，遥控器发出连续的滴滴响声，此时进入3D翻滚状态，这时打遥控器摇杆任何方向实现3D翻滚。
- ★The current face of the basic movements are skilled when you can play some thrilling tumbling action, and then click on any rudder upper right corner of the remote control buttons, the remote emits a continuous sound drops, this time into the 3D rollover state, then hit the remote control joystick in any direction to achieve 3D tumbling.
- ★注意：当飞行器悬停偏离较多时，把飞行器平放在平坦的地面上然后把遥控器舵量大小调到100%，各微调回中，同时把遥控器的两个操纵杆向左下角打到底部约2秒钟，此时飞行器主板指示灯闪烁，松开操纵杆，主板闪烁2秒钟后停止闪烁，校准中位完成。
- ★Note: When hovering aircraft deviates more, the vehicle flat on flat ground and then put the remote control rudder volume size to 100%, trimming back to the middle, while the two joysticks on the remote control to the lower left corner to pull in the end about 2 seconds, then the aircraft motherboard light is blinking, release the lever, the motherboard flashing stops blinking after 2 seconds, the calibration is completed in the middle position.

#### 11.TROUBLE SOLVING DURING FLIGHT 如何排除飞行中的状况

	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. 6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. Check 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. 使用完全充电充足的电池 3. 从新插入电池，确认电池和电池极片的接触是否正正常
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	Throttle trim accidentally increased during flight. 飞行中误将油门微调调高	Confirm throttle trim is in center or slightly below. 确认油门微调在中间位置或是稍微向下调
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. Deformed main blades. 2. Helicopter battery depleted 1. 主旋翼变形 2. 飞行器锂电池电量不足	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. Deformed main blades 1. 主旋翼变形	1. Replace main blades 1. 更换主旋翼
7	Tail still off trim after 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	Replacement of the main wing Replace the main motor 更换主翼 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. 陀螺仪中点不对。	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 after the aircraft fall 飞行器跌落后飞不起来	1. motor fall out 2. gear loosen 1. 电机脱落 2. 齿轮松动	1. Install the motor again tighten the gear 1. 从新装回电机 2. 把齿轮装紧

#### 12.PARTS LIST 各种零件名称

V272



No.	Code No.	Name	Specification	Quantity	Remarks
1		Canopy 机壳		1	
2		blade 风叶		4	
3		Landin skid 减震脚钉		4	
4		Motor 马达		4	
5		Receiver board 接收板		1	
6		Li-polymer battery 锂聚电池		1	

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