

**AGE 14+**

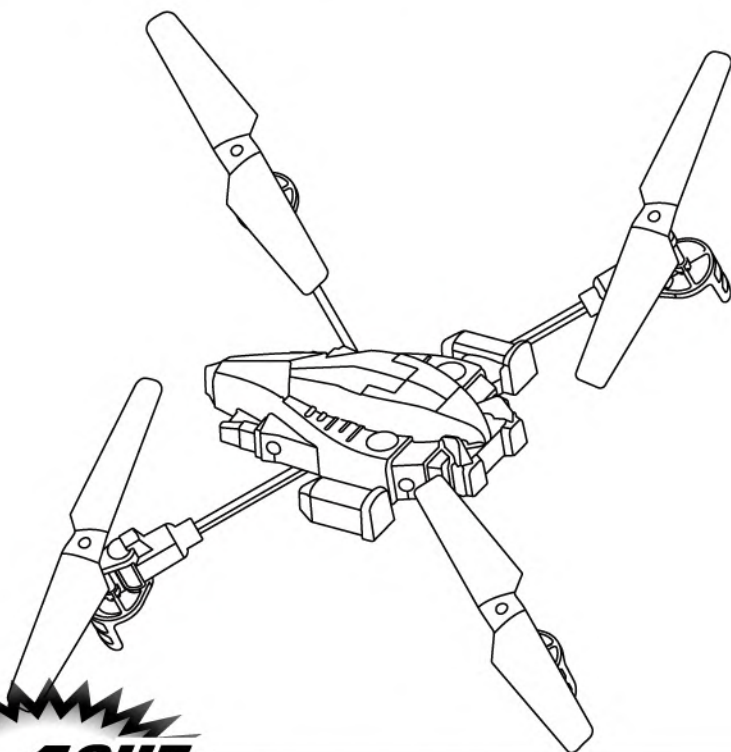
# R/C QUAD-COPTER USING INSTRUCTION

# **X1**

*GYRO SYSTEM*



*3D REMOTE CONTROL QUAD-COPTER*



**2.4GHZ**  
EDITION

**THREE AXIS GYROS**

To avoid copter's damage and player's injury, please read this instruction before flying!

In this instruction of material, the specification or parts within the accessories bag is for reference only. The company will not be responsible for any change of printed part and notify the consumers. Any update or change please refer to the website of SYMA ([www.symatoys.com](http://www.symatoys.com)).

## **Safety regulations**

1. Placed in small parts of the reach of children, to avoid accidents.
2. The quad-copter was powerful, should be gradually pushed up the left stick (throttle lever) to avoid the fast rising caused quad-copter crash damage.
3. After flight, please remove the Li-po battery on copter first then turn off the controller.
4. Do not put the battery in high temperature or heating place (e.g. Fire or electric heating devices).
5. Note that the quad-copter should keep off the user or other persons from 2-3m to avoid the landing copter crash into other person's head, face or body etc.
6. Children should fly the copter by adults in the guidance and ensure the copter control in flyer's (or guides's) line of sight range for easy to control.
7. Non-rechargeable battery is not charging. Installing or changing the battery, please note the positive and negative poles. Don't mix old batteries and new batteries or different type.
8. Please turn off the power of the controller and quad-copter when not in use.
9. Power terminal is not allow short circuiting.

## **Ready to fly**

1. Please recheck the ground, keep away from the crowds, animals, and other barriers.
2. Turn on the controller, the status light on controller flash with rhythmic sound.
3. When insert the charged battery, quad copter will into automatic detection state (the indicator light flashing swift in the first 10 seconds when power on). At that time, please place it at a level position, if not copter will fly incline. When the indicator light keep light, the copter ready to fly.
4. Push the throttle lever slowly, the quad-copter will fly up.

## **Low voltage protection**

Low-voltage protection: When the helicopter battery is low, the helicopter control system battery will be protected, and stop the supply of helicopter rotor; low power protection, the need to charge to secure a new flight of the helicopter.

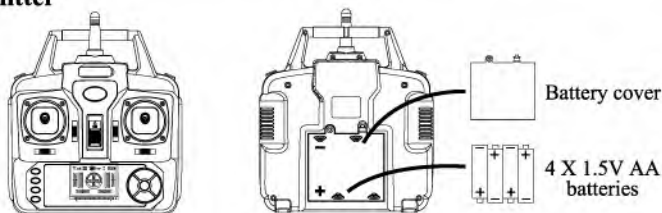
Overcurrent protection: When the helicopter blades in the rotating state by collision or jammed, the helicopter circuit overcurrent protection.

## **Maintenance**

1. Cleaning the helicopter with clean and soft cloth.
2. Don't put the helicopter under the direct sun or strong lighting
3. Don't soak the toys in the water, or the electronic parts will be destructed.
4. Regularly check the plug and other spare parts, if find some parts broken, please stopping using till the product in good condition.

## Assembly transmitter & helicopter charging

### Assembly transmitter



1. **Install batteries:** Open the cover of battery case, insert 4 batteries (size 1.5V AA) properly followed by polar indicator. (batteries to be purchased)



1. **Install batteries carefully.**
2. **Do not mix old and new batteries.**
3. **Do not mix different types of batteries.**

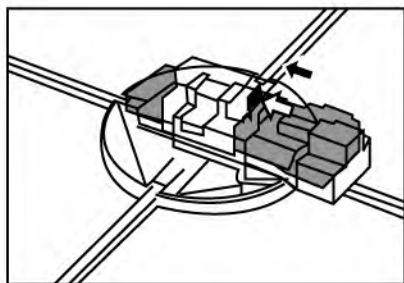
### 2.The Li-po battery charge and assembly

**Charging Method:** Take out the removable battery, link to the USB cable first, then plug into a USB port on computer (or a USB ATN) to charge. The power status light red when charging and turn off when finish charging.

**Tips:** 1. When use the computer charging, please pull out the USB cable before you shut down the computer.

2. When link the battery and USB cable, please be careful and plug into the correct port.

**Assembly:** Insert the charged battery to the power socket at the bottom of the quad-copter, please push it as the figure shown until put tight. Then put it on ground and it will search the signal from the controller. After signal searching, push the throttle lever to fly.



**65~75 minutes charging can flying about 8~9 minutes.**

Quad-copter is equipped with a LI-Poly battery, please also pay attention to the following cautions or safety use.

Do not use or leave the battery near a heat source such as fire heater. Otherwise it will cause damage or explode.

Do not use the battery slam or beating hard surface.

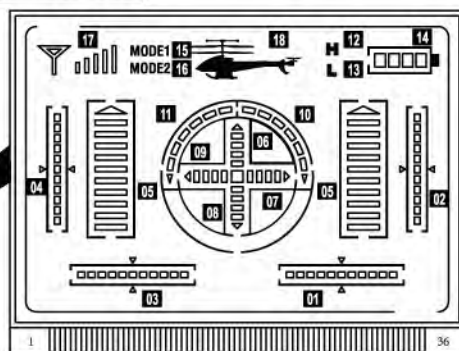
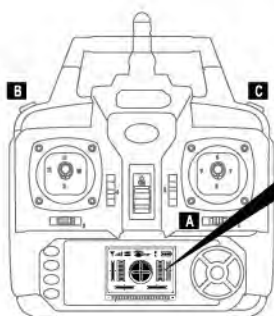
Do not immerse the battery in water, and keep it in a cool dry place.

Charger included with the product can only be used for the product charge.

Do not disassemble the battery.

Never leave the battery unattended during charging.

# Remote Control Keypad and LCD Manual



- 01** Sideward fly fine-tuning: Power-on start in the centering. (Be Turn Left/Right Fine-tuning in Mode2)
- 02** Forward/backward fine-tuning: Power-on start in the middle.
- 03** Turn Left/Right fine-tuning: Power-on start in centering. (Be Sideward Fly Fine-tuning in Mode2)
- 04** Throttle lever fine-tuning: Power-on start in middle.
- 05** Throttle shows: Power-on start in lowest level. (Left and right throttle shows at one time)
- 06** Forward shows: Power-on start in the lowest level. (At the center square)
- 07** Left sideward fly shows: Power-on start in the lowest level. (At the center square)
- 08** Backward shows: Power-on start in the lowest level. (At the center square)
- 09** Right sideward fly shows: Power-on start in the lowest level. (At the center square)

- 10** Turn left : Power-on start in zero.
- 11** Turn right: Power-on start in zero.
- 12** High speed mode: Power-on without display "H".
- 13** Low speed mode: Default mode when power-on with "L". (Change to H mode when press button "B".)
- 14** Power shows: According to the battery's energy for the controller.
- 15** MODE 1 : Default mode when power-on. (Suit for right-handed) In MODE 1, turn left/right controlled by left lever, sideward fly controlled by right lever.
- 16** MODE 2 : Push the button "A" to right to change MODE 1 into MODE 2 (Suit for left-handed). In MODE 2, sideward fly controlled by left lever, turn left/right controlled by right lever.
- 17** Signal shows: Normally to full frame.
- 18** Mini helicopter shows when power on with on function now.
- 19** Button C : The special function for 360° eversion.

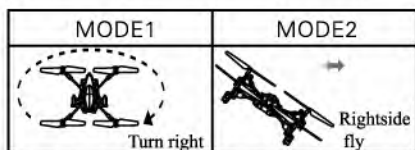
**\* This controller suit for both Right-handed and Left-handed through button A to change.**

## 3D Eversion guide:

After familiar with basic action, let's try breathtaking eversion! First fly up to 3m height, hold button C on top right corner and push rudder (any direction), quadcopter will finish the 3D action, any direction 360° continuous eversion.

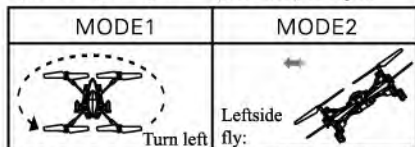


## Quad-copter control guide :



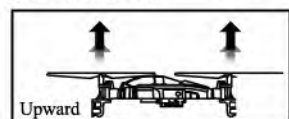
Push the throttle lever (left stick) to right.

Push the throttle lever (left stick) to right.

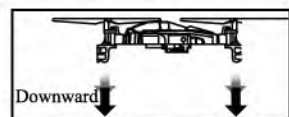


Push the throttle lever (left stick) to left.

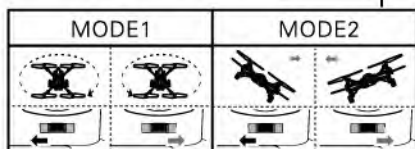
Push the throttle lever (left stick) to left.



Push the throttle lever (left stick) to top.

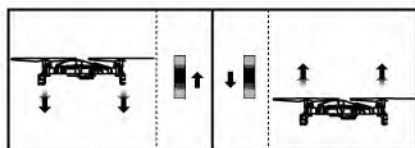


Push the throttle lever (left stick) to down.

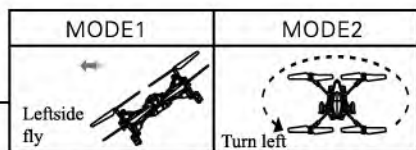


Turn left/right fine-tuning

Sideward fly fine-tuning

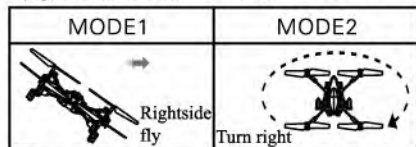


Upward/Downward fine-tuning



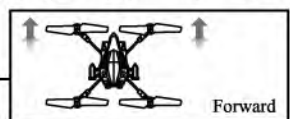
Push the rudder (right stick) to left.

Push the rudder (right stick) to left.

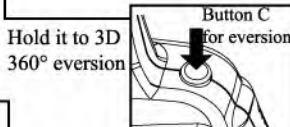


Push the rudder (right stick) to right.

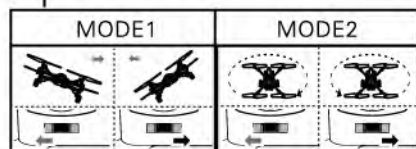
Push the rudder (right stick) to right.



Push the rudder(right stick) to top.

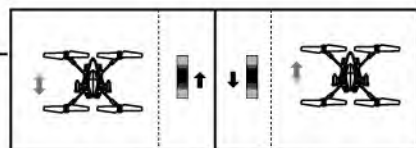


Push the rudder(right stick) to down.



Sideward fly fine-tuning

Turn left/right fine-tuning



Forward/Backward fine-tuning

Remark: When using fine-tuning ,please keep the quad-copter hovering.

## Maintenance program

Problem	Cause	Check this
No reaction from the helicopter	<ol style="list-style-type: none"> <li>1. Not enough power for the helicopter.</li> <li>2. Not enough power for the controller.</li> <li>3. The channel was different from helicopter and the controller.</li> <li>4. The gyro of the helicopter can't find out the right point.</li> </ol>	<ol style="list-style-type: none"> <li>1. Should be charging for the helicopter.</li> <li>2. Change new batteries instead.</li> <li>3. Remote control and the aircraft power supply is turned off, re-code.</li> <li>4. Move the helicopter onto the flat ground, when the gyro receive the signal, then open the controller.</li> </ol>
Not reaction from the helicopter when was fly	<ol style="list-style-type: none"> <li>1. the remote control are running low.</li> <li>2. antenna Weld.</li> </ol>	<ol style="list-style-type: none"> <li>1. replace the remote control batteries.</li> <li>2. antenna re-welding.</li> </ol>

## Spare parts list

Order by item number from local distributors.



**X1-01**  
Body01



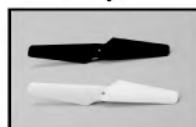
**X1-02**  
Body02



**X1-03**  
Body03



**X1-04**  
Inversion Blades



**X1-05**  
Eversion Blades



**X1-06**  
Main frame



**X1-07**  
Battery case



**X1-08**  
Motor limit



**X1-09**  
Protect basic



**X1-10**  
Carbon fiber tube



**X1-11**  
Main gear

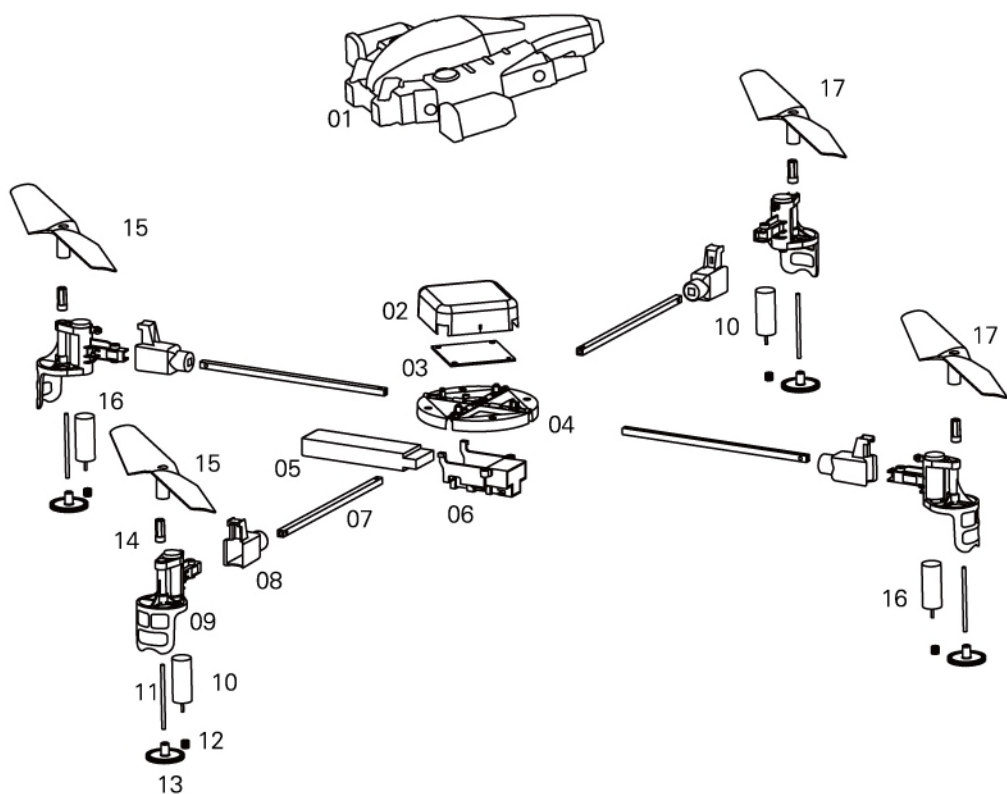


**X1-12**  
Circuitboard



**X1-13**  
Li-poly Battery

## Graphic detail



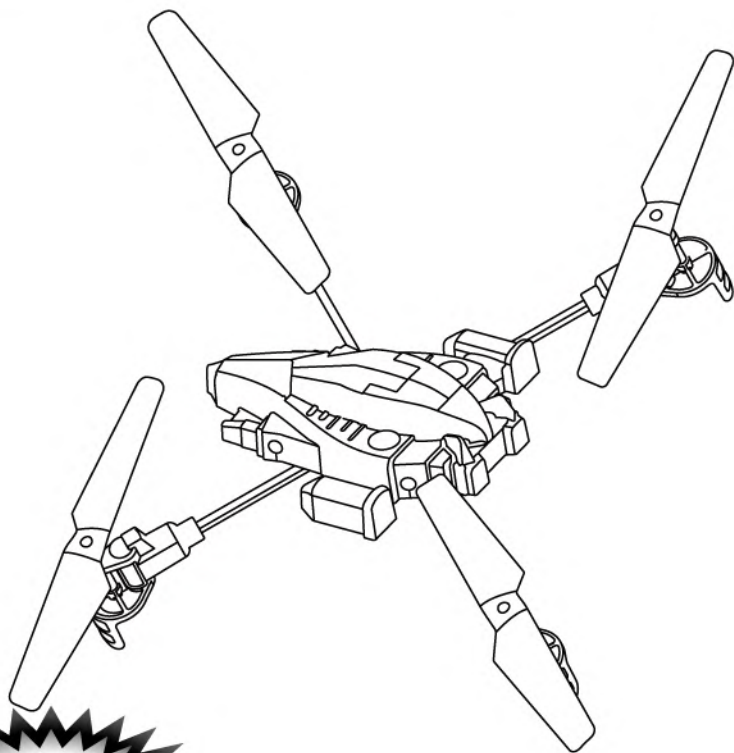






AGE 14+

# 遥控飞行器使用说明书



内置陀螺仪

为了避免飞行器的损坏、伤及自己或他人，在使用之前，请仔细阅读本说明书。

本说明书内的材质，规格或零件包装之内物仅供参考。本公司将不对此印刷物之异动负责也无法主动通知消费者，任何更新或异动，请以司马航模网页为主。

## 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边变速操纵杆，避免飞行器急速上升而导致碰撞损坏。
3. 飞行结束后，应先走近飞行器并取出电池，再关闭遥控器电源。
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. 非充电电池不可充电，安装或更换电池时请注意极性；不可混用新旧或不同类型的电池。
8. 不使用时应关闭遥控器开关，并取出飞行器和遥控器内的电池。
9. 电源端子不得短路。

## 预备飞行

1. 检查场地，远离人群、动物、及其他障碍物。
2. 打开遥控器电源开关，这时遥控器的状态指示灯呈闪烁状态并伴随有节奏声音，然后向上推动上升/下降变速操纵杆到最顶，再将其拉回最低端；遥控器的状态指示灯呈常亮及声音停止，表示遥控器已进入预备起飞状态。
3. 飞行器装上充满电的电池，即进入自动检测状态（指示灯快速闪烁，接通电源10秒内）此时需将飞行器摆放到水平面上，否则会造成起飞后飞行器倾斜，当指示灯变为常亮时飞行器即进入预备飞行状态。
4. 慢慢推动上升/下降变速操纵杆，即可将飞行器起飞。

## 低压及过流保护

低压保护：当飞行器电池电量较低时，直升机控制系统会对电池进行保护，停止飞行器旋翼的供电；低电保护后，需对飞行器充电才可重新飞行。

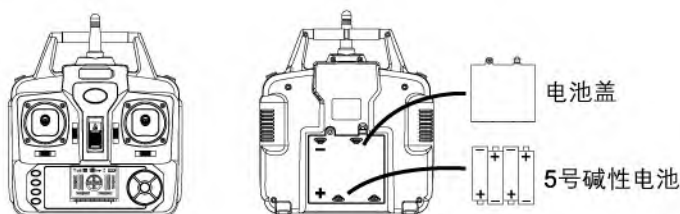
过流保护：当飞行器风叶在旋转状态下，受到碰撞或卡住时，飞行器电路进行过流保护。

## 保养及维护

1. 常用干净软布清洁此产品。
2. 避免此产品在阳光下暴晒或受热。
3. 切勿将些玩具浸在水中，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。

## 组装遥控器及飞行器充电

### 组装遥控器



- 1、电池的安裝方法：打开遥控器背面的电池盖，依照电池箱的电极指示正确地放入4节5号碱性电池(电池须另购)。



- 1.装电池时必须认准正负极与电池盒正负极，切不能装反。
- 2.请勿混合使用新旧电池。
- 3.请勿混合使用不同种类的电池。
- 4.废旧电池请不要乱丢弃。

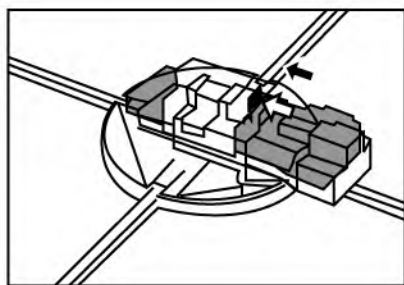
### 2、飞行器电池充电及安装方法：

充电方法：取出电池块，并用USB线连接的电池充电口，另一端连接电脑USB端口（或USB电源适配器）对电池进行充电，充电时USB头红色指示灯亮起，充满时红色指示灯熄灭。

注：1.使用电脑充电时，电脑关机前请将充电线拔出。

- 2.USB线跟电池块连接时应注意对准其极性，不能反接。

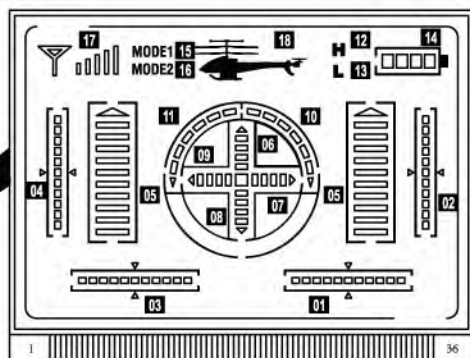
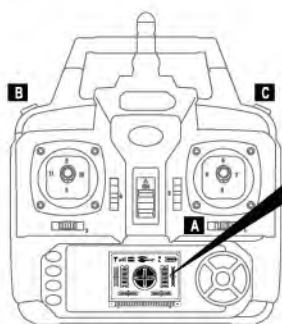
安装方法：如图所以将充满电的电池块装入飞行器上，并对准飞机器电源插座，连接电池。此时把飞行器翻正并水平放置，使其跟遥控器对码，对码成功后则可推动遥控器（油门）操纵杆，飞机器就可以进行飞行。



**充电时间65~75分钟可飞行约8~9分钟！**

- 此产品配备内置锂电池，使用时要注意以下安全事项。
- 切勿把带电电池放在高温受热的地方，如明火或电热装置，否则会发生损坏或爆炸。
- 切勿用电池撞击或敲打硬质物体表面。
- 切勿把电池浸入水中，电池应存放在干燥的地方。
- 只能用产品附带的充电器为产品充电。
- 切勿分解电池。
- 充电时人员切勿离开。

## 遥控按键与液晶显示功能介绍



- 01** 左右侧飞微调：开机后显示在中点  
(当MODE2时为左右转向微调)
- 02** 前进后退微调：开机后显示在中点。
- 03** 左右转微调：开机后显示在中点  
(当MODE2时为左右侧飞微调)
- 04** 油门微调：开机后显示在中点。
- 05** 油门显示：开机时显示在最低点  
(要左右两条同时显示)。
- 06** 前进显示：开机时显示在最低点(无显示)。
- 07** 右侧飞显示：开机时显示在最低点(无显示)。
- 08** 后退显示：开机时显示在最低点(无显示)。
- 09** 左侧飞显示：开机时显示在最低点(无显示)。
- 10** 右转：开机时显示在最低点(无显示)。
- 11** 左转：开机时显示在最低点(无显示)。
- 12** 快速档显示：开机时无显示。

- 13** 慢速档显示：开机默认慢速档，  
按一下B键后才切换快慢档。
- 14** 电池容量显示：根据实际电池容量显示相应的格数。
- 15** MODE1显示：开机默认模式1，  
表示左右转向跟油门同侧(左边)，  
左右侧飞和前进后退同侧(右边)。
- 16** MODE2显示：A键向右推+开关可由默认的  
MODE1切换成MODE2。  
表示左右侧飞跟油门同侧(左边)，  
左右转向和前进后退同侧(右边)。
- 17** 信号显示：正常情况下为满格
- 18** 飞机显示：开机默认显示。
- 19** 特技功能键：按住+C可做翻滚动作。

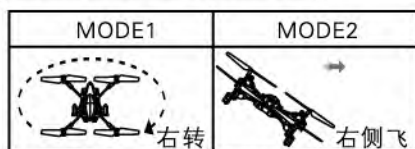
**\*本遥控器具有左右手切换功能**

### 3D翻滚动作指示

当基本动作都很熟练时就可以玩一些惊险的翻滚动作，首先将四轴飞行器飞到3米高以上的高度后，按下遥控器右上方的特技按键，再推动右方向舵(任意方向)即可360度任意方向的3D翻滚动作，而且可以连续翻滚。

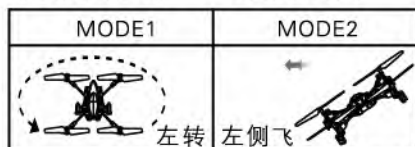


# 飞行器操控指引



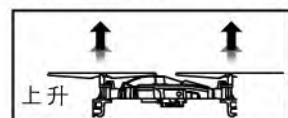
将操纵杆推向右边  
飞行器则向右转。

当操纵杆向右推时  
飞行器向右侧飞

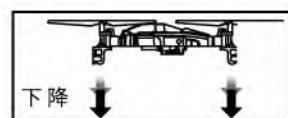


将操纵杆推向左边  
飞行器则向左转。

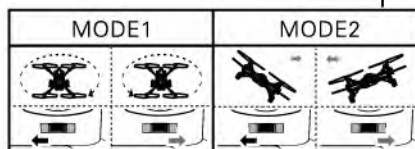
当操纵杆向左推时  
飞行器向左侧飞



上升  
当左操纵杆（油门）向上推，  
飞行器上升。

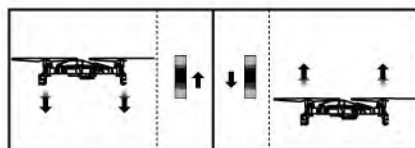


下降  
当操纵杆向下推，飞行器下降。



左、右转微调

左、右侧飞微调



当飞行器出现下降或上升时可按上图所示调整



左侧飞

左转

当操纵杆向左推时  
飞行器向左侧飞

将操纵杆推向左边  
飞行器则向左转。



右侧飞

右转

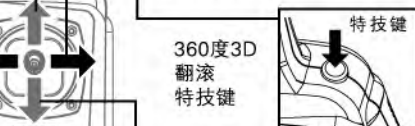
当操纵杆向右推时  
飞行器向右侧飞

将操纵杆推向右边  
飞行器则向右转。

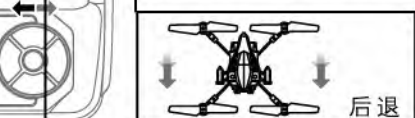


前进

当操纵杆向上推，飞行器  
则向前前进。

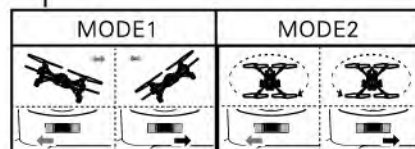


360度3D  
翻滚  
特技键



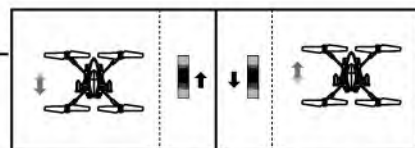
后退

当操纵杆向下推，飞行器  
则向后退。



左、右侧飞微调

左、右转微调



当飞行器出现前进或后退时可按上图所示调整

注：在调整飞行器的微调功能时，飞行器必须处于悬停状态下。

## 检修程序

问 题	原 因	解 决 办 法
飞行器 没有反应	1. 飞行器电量不足。 2. 遥控器电量不足。 3. 遥控器的通道选择与飞行器对码不一致。 4. 飞行器无法正常飞行或悬停	1. 对飞行器进行充电。 2. 更换遥控器电池。 3. 关闭遥控器和飞行器电源后，重新对码。 4. 将飞行器取出电池再重新安装，并重新放置于水平地面，使其重新对码。
飞行器 飞行反应 不灵敏	1. 遥控器电量不足。 2. 天线虚焊。	1. 更换遥控器电池。 2. 天线重新焊接。

## 配件（选购）

下列是可供选择的配件，为方便客户选购，特出每个部件。可通过当地的经销商购买配件。



X1-01  
机身01



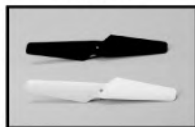
X1-02  
机身02



X1-03  
机身03



X1-04  
反转风叶



X1-05  
正转风叶



X1-06  
主架



X1-07  
电池盒



X1-08  
电机限位件



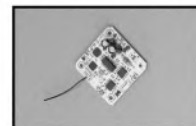
X1-09  
保箱



X1-10  
碳纤管



X1-11  
主齿轮



X1-12  
接收板



X1-13  
电池

