

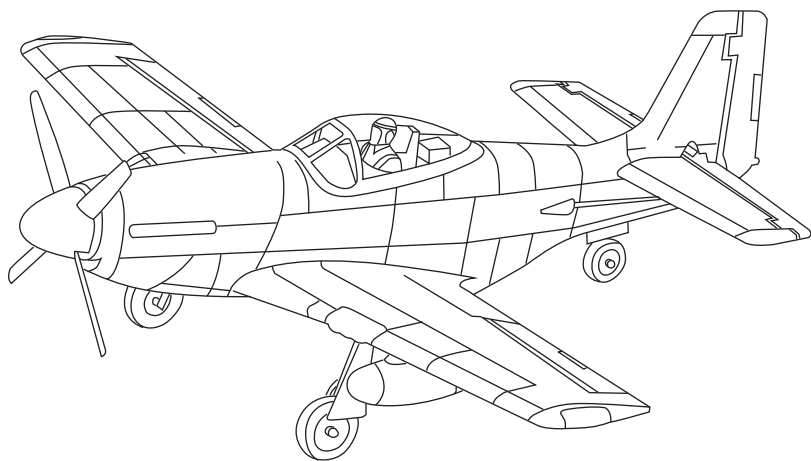


14+

A280

4 CH 3D6G SYSTEM AIRPLANE

快速入门手册



www.xk-innovations.com

Product introduction

产品简介

- 1. Using impact resistant EPP + engineering materials, World War I machine p51 high simulation imager
- 2. 1806 strong magnetic brushless motor, super powerful power. 2G high-precision digital steering gear, fast response and fast locking.
- 3. The aircraft adopts 6-axis gyroscope, attitude locking and 3D / 6G mode conversion, which is suitable for flying in different scenes and more suitable for beginners to practice flying. Air mode conversion. both beginner mode and stunt flight mode. The blades, motors and wings are detachable for easy replacement. The receiver adopts GFSK communication mode.
- 4. The aircraft has multiple flight modes mode
 - 1) Outdoor 6G level flight mode: 6G self stabilizing mode is entered by default for takeoff. The gyroscope is self stabilizing and the course is locked. It is very suitable for beginners to practice flying in fixed wing mode.
 - 2) Outdoor stunt mode: After the aircraft flies horizontally in the air, the button switch switches to 3D or advanced mode, and the aircraft can easily perform stunt actions such as somersaults, rolls, and death spirals when entering 3D or advanced mode.
- 5. The fuselage plus LED lights can fly at will even at night, and the remote control can also control the lights with one button.
- 6. The landing gear is installed in the clamping groove of the front and rear rubber parts, which can be used for taxiing and landing under special circumstances. It can also be used for outdoor taxiing and takeoff, and directly enter the fixed wing mode.
- 7. High capacity and high magnification 7.4v 600mah 25C lithium polymer battery, gliding flight time of about 7 minutes.
- 8. Aircraft, remote control low battery alarm, more effective protection of batteries from being discharged. During the flight, it is possible to safely land in advance to avoid battery over discharge leading to flight loss. The flight control has added a loss prevention function. When the aircraft is about to fly out of sight, you can long press the function key to let the aircraft enter a hover. If you do not press the exit button, the aircraft will maintain its current altitude and hover from the maximum radius to the minimum radius. Before the battery is depleted, the aircraft will automatically land. If there is signal interference or exceeding the effective distance of the remote control in the flight environment, the flight control will also emit 5 consecutive beep alarm prompts.
- 9. the rack adopts quick installation and disassembly structure, which is easy to carry.
- 1. 采用耐撞击EPP+工程材料，二战机P51高仿真像真机
- 2. 1806 强磁无刷电机，动力超强劲。2g高精度数字舵机，反应迅速，快速锁定。
- 3. 飞机采用6轴陀螺仪、姿态锁定，3D/6G模式转换，适合不同场景飞行，更适合初学者晋级练习飞行。空中模式转换，更兼备初学模式和特技飞行模式。风叶、马达、机翼可拆卸便于更换，接收机采用GFSK通信方式。
- 4. 飞行器有多个飞行模式
 - 1) 室外6G平飞模式：起飞默认进入6G自稳模式，陀螺仪自稳，航向锁定，非常适合初学者固定翼模式练习飞行
 - 2) 室外特技模式：飞机空中水平飞行后，按钮开关切换3D或高级模式，飞机进入3D特技或高级模式都可以轻松做出筋斗 横滚 死亡螺旋等特技动作。
- 5. 机身加上LED灯即使在夜晚也可以随心所欲飞行，遥控还可以一键控制灯光。
- 6. 前后胶件卡槽安装起落架，特殊情况下进行滑行降落，也可以适用于室外滑行起飞，直接进入固定翼模式。
- 7. 大容量 大倍率7.4V 600mAh 25C聚合物电池，滑翔飞行时间7分钟左右。
- 8. 飞机、遥控低电报警，更有效的保护电池不过放。在飞行过程中可提前安全降落，避免电池过放导致飞丢。飞控新增预防丢失功能，当快要飞出视线范围内可长按功能键让飞机进入盘旋，如果不按退出飞机将保持当前高度从最大半径到最小半径盘旋飞行，当电池的电量将耗尽前，飞机将会自动着陆。如果飞行环境有信号干扰或超出遥控有效距离，飞控也会发出连续5声嘀嘀报警提示。
- 9. 机架采用快速安装与拆换结构，便于携带。

Basic parameters and configuration

基本参数及配置

Parameter:	Configuration:
1. Wingspan: 560mm	1. Battery: 600MAH 25C 7.4V
2. Full length: 495mm	2. Remote controller: 4 channels
3. Flying full weight: 230g	
4. Body material: EPP	
5. Gliding world: about 7 minutes	

参数:

- 1. 翼展: 560mm
- 2. 全长: 495mm
- 3. 飞行全重: 230g
- 4. 主体材质: EPP
- 5. 滑翔飞行时间: 约7分钟

配置:

- 1. 电池: 600MAH 25C 7.4V
- 2. 遥控器: 4通道

Packing list

包装清单

No. 序号	Name 名称	Quantity 数量	No. 序号	Name 名称	Quantity 数量	No. 序号	Name 名称	Quantity 数量
1	Color box 彩盒	1	8	Cross screwdriver 十字螺丝刀	1	14	USB charging cable USB充电线	1
2	Foam box 发泡盒	1	9	On the opening plate 开口板上	1	15	Screw ST2.5*20PM 螺丝	2
3	Instruction 说明书	1	10	1.5 Allen wrench 1.5内六角扳手	1	16	Screw 2*10PB 螺丝	2
4	Body 机身	1	11	Remote controller 遥控器	1	17	Screw 1.7*8PB 螺丝	4
5	wing 机翼	1	12	Left / right / rear landing gear 左/右/后起落架	1	18	Blade / fairing 桨叶/整流罩	1
6	tank 油箱	2				19	Screw 2*16PM 螺丝	2
7	Horizontal tail 平尾	1	13	Battery 电池	1	20	Screw 2*8HM 2*8HM螺丝	2

Safety precautions

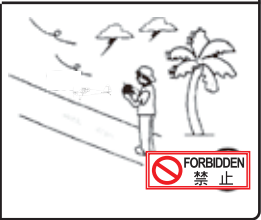
安全注意事项

Remote control model airplanes, a hazardous goods, be sure to stay away from the crowd when you fly, man-made improper assembling or mechanical damage, poor control of electronic equipment, as well as on unskilled manipulation, are likely to lead to out of control flight and other unexpected injuries. Please be sure to pay attention to fly safely, and need to learn any accident responsibility caused for own negligence.

遥控器模型飞机，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，以及操控上的不熟练，都有可能导致飞行失控损伤伤等不可预期的意外，请飞行者务必注意飞行安全，并需了解自负疏忽所造成任何意外之责任。

This product is suitable for outdoor and under wind condition less than Grade 4. When flying model aircraft, please select the proper outdoor space without obstacles, and maintain an appropriate distance away from the crowd or pet, do not operate in an unsafe environment, such as heat, wires, power supplies, to avoid collision, landing, entangled and cause a fire, electric shock or other hazardous loss of life and property.

本产品适合户外且风力小于4级条件下飞行，模型飞机飞行时请妥善选择无障碍物的室外场地，并与人群或宠物等到保持适当距离，切勿於不安全的环境下操作，如热源、电线、电源等等，以免像真机碰撞、迫降、纠缠而引发火灾、电击等危险，造成生命财产损失。



Airplane internal is made up of many precision electronic parts, it is absolutely necessary to prevent from moisture or water vapor, to avoid using in bathroom or rainy day, to prevent moisture from entering the inside body or electronic components and cause by unexpected danger!

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



Do not disassemble, process, modify, upgrade or repair arbitrarily, please use parts in catalogue to ensure the safety of the structure. Make sure the operating clearance in the product, do not overload use, and do not use out of security, law or regulation or other illegal purposes.

请勿任意拆卸或任意改造加工，任何的升级改造或维修，请使用本产品目录中的零件，以确保结构的安全。请确认於产品限界内操作，请勿过载使用，并勿用於安全、法令外其他非法用途。



Make sure that the positive and negative electrode position are correct, do not mix old and new batteries to avoid affecting the battery life. Batteries should be taken out if don't use for long time to avoid liquid leakage or any fault. If battery leakage do not use any more. Discarded appliances, please recycle according to the country or regional Waste Disposal Act of recycling, not to be discarded in order to avoid any pollution of the environment.

安装电池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再使用。废弃的电器，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。

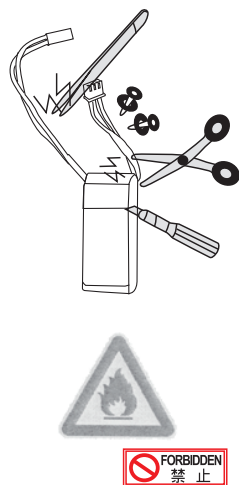


Lipo battery is more dangerous than any other battery. Be sure to read the following precautions before use and follow precautions when using this battery, the Company will not be liable for any damages caused by improper use.

- (1. Do not use the charger to charge other than the original, in order to avoid the risk of explosion and fire occurred.
2. Do not crash, disassemble, reverse polarity, burning, avoid the metal object to touch the battery positive and negative which will cause short circuit. And prevent sharp objects to pierce the battery to avoid the risk of fire.
3. When charging, please be careful to ensure it charges in your sight. And away from children for touching to avoid danger.
4. If battery fevers, charging is forbidden. Otherwise it will cause the battery to swell, deform or even explode on fire, endangering the safety of life and property.
5. Waste batteries to use in strict accordance with the country's recovery Waste Disposal Act, so as not to pollute the environment.)

锂聚电池较与其他电池有更高的危险性，使用前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。

1. 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危险。
2. 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，以避免电池起火的危险。
3. 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。
4. 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。
5. 废弃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 and sunlight as much as possible to avoid deformation due to high temperatures or even the possibility of melting damage.

要尽量远离热源、日晒、以避免因高温而变形甚至熔毁损坏的可能。



This product uses ages over 14 years old, remote control glider has a certain degree of difficulty in the early stage of learning, want to skillfully control the model glider above the simulator can fly.

本产品适用年龄14岁以上，遥控滑翔机在学习初期有着一定难度，需要熟练操作模拟器上面的模型滑翔机可飞行。

Installation procedure

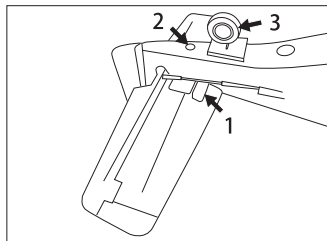
安装步骤

Horizontal tail and rear landing gear

1.水平尾翼、后起落架

First, align the horizontal tail with the limit slot from the left side of the fuselage and install it in place to the right, and then lock an ST2 5 * 23PM screw, and then install the rear landing gear into the rubber clamping slot according to the direction shown in the figure

先将水平尾翼从机身左侧对准限位卡槽往右装到位，然后锁上一颗ST2.5*20PM螺丝，最后把后起落架按图方向装到胶件卡槽



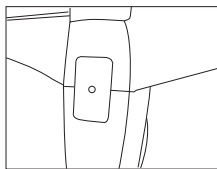
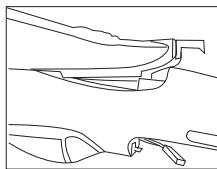
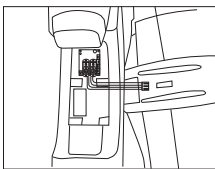
2. Wing

2. 组装机翼

1. First plug the wing steering gear connecting wire into the receiver, and then count the second socket from the head of the aircraft to the right socket of the receiver as shown in the figure.
2. Connect the lamp plugs on the fuselage and wing to the adapter lamp board at will

Note: The size of the light wire plug is different from that of the steering gear plug. The steering gear is Y wire.

1. 先将机翼舵机连接线插到接收机上，按图所示接收机右边插座，从飞机头部往后数第二个插座。
2. 将机身、机翼上的灯插头任意连接到转接灯板上
注意：灯线插头跟舵机插头大小不一样，舵机是Y线。

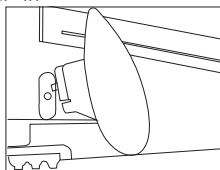


Put the lines in order and put them into the fuselage

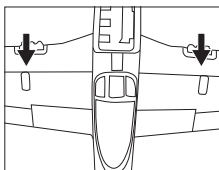
Lock a 2 * 16PM screw to fix the wing and fuselage together
锁上一颗2*16PM螺丝，将机翼与机身固定到一起

3. Install the left and right fuel tanks

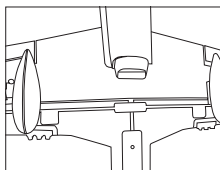
3. 安装左右油箱



First install the fuel tank on one side of the wing as shown in the figure, and then lock a 1.7 * 8PB screw
先将一边油箱按图所示装到机翼一边，然后锁上一颗1.7*8PB螺丝



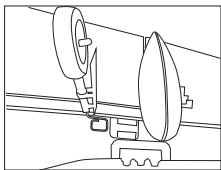
Install the other fuel tank on the wing in the same way and lock a 1.7 * 8PB screw
用同样的方法把另一边油箱装到机翼上，锁上一颗1.7*8PB螺丝



Note that the front and rear directions of the oil tank shall not be installed incorrectly
注意油箱的前后方向不要装错

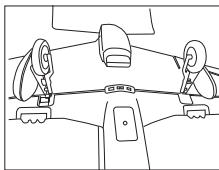
4. installation front landing gear

4. 安装前起落架

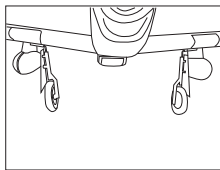


Install the right front landing gear into the clamping slot of the right landing gear seat as shown in the figure. Note that there is a letter R on the landing gear baffle and the landing gear seat, and the through letter is installed on one side

将前起落架右按图所示装到右起落架座卡槽，注意起落架挡板跟起落架座都有字母R，同字母的装一边



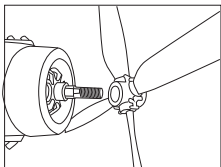
Install the front left landing gear into the clamping slot of the left landing gear seat in the same way
将前左起落架按同样方法装到左起落架座卡槽



The bracket faces the inside of the fuselage and both sides of the baffle
支架朝机身内侧，挡板朝两侧

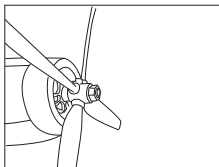
5. Assembling blades / fairing

5. 组装桨叶/整流罩



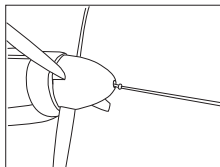
Align the blade flat position with the flat position notch of the motor shaft and install it in place

将桨叶扁位对准马达轴扁位缺口位置，装到位



Screw the M5 nut onto the motor shaft with an open-ended wrench or pointed nose pliers to fix the blade

用开口扳手或者尖嘴钳将M5螺母拧到马达轴，将桨叶固定

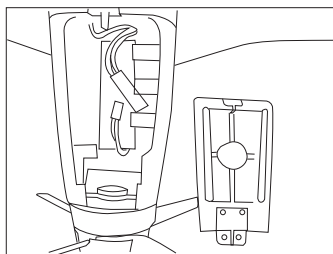


Install the fairing and screw a 2 * 8HM screw with a 1.5mm hex screwdriver

装上整流罩用1.5mm六角螺丝刀拧上一颗2*8HM螺丝

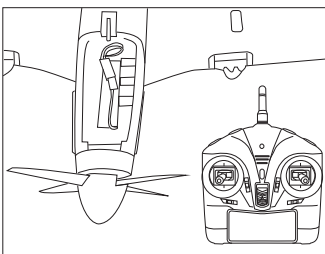
Frequency

对频



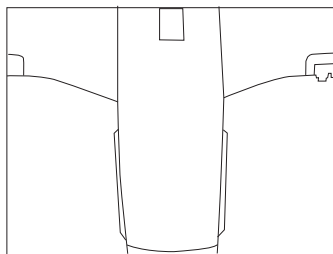
Open the battery cover, connect the battery with the electric regulating power supply normally, place the battery near the head of the aircraft into the foam card slot and stick it together with the Velcro, and place the motor and the electric regulating cable on the battery

打开电池盖，将电池与电调电源正常连接电池靠飞机头部放入泡沫卡槽与魔术贴粘一起，马达、电调线放在电池上面



Turn on the power switch of the remote control to align with the aircraft, the indicator light of the receiver and the remote control will be on for a long time, and the code alignment is completed. Control the rocker to check whether each control surface of the aircraft works normally

打开遥控器电源开关与飞机对频，接收机跟遥控器的指示灯长亮，对码完成。操控摇杆检查飞机各舵面是否正常工作

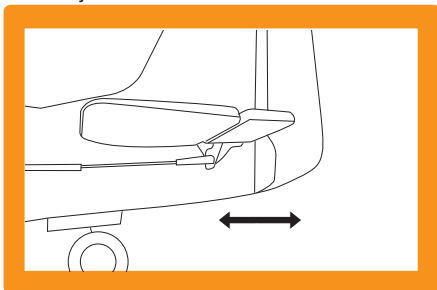


Align the frequency, align the battery cover with the limit slot and snap
对好频将电池盖对准限位槽及卡扣装好

Aircraft rudder adjustment

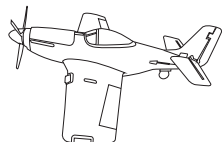
飞机舵调节

1. to power the plane, perpendicular to the plane elevator aileron rudder should gyrus, if rudder is not in the middle position, by manually rotating the joint to adjust the active control surface to the middle position.
 2. Adjust aircraft motor can not be started before, is off to a gyroscope. Gyroscope in repair status can not be accurately adjusted to the middle position of the rudder surface.
 3. Rotate the wire can shorten the length of the wire sliding, sliding to the left can be extended the length of the wire. The steel wire flexible joints are all fastened in the middle hole of the rudder rocker arm.
1. 给飞机上电，副翼 升降舵面 垂直舵面应该回中，如果舵面不在中间位置，通过手动旋转活络接头将舵面调整到中间位置。
2. 调整的飞机马达不能被启动过，陀螺仪要处于关闭状态。陀螺仪在修复状态下不能准确的将舵面调整到中间位置。
3. 钢丝向右旋转可减短推拉钢丝长度，向左旋转可加长推拉钢丝长度，钢丝活络接头全部扣在舵面摇臂中间孔位。



Off the ground

地面起飞



Place a horizontal plane
放置水平面上

1. Place the aircraft on the ground facing the wind, with the throttle lever in the lowest zero position, and confirm again whether all control surfaces are in the center position and whether the control direction of the control surfaces corresponds to each other.
2. After confirming that the above steps are correct, push and pull the throttle lever up and down once to unlock it. Gently push the throttle lever for sliding and gradually increase it to 100%. The aircraft will automatically climb and leave the ground.

Attention: When the climbing angle is insufficient or about to collide with an obstacle, the joystick can be controlled to adjust the posture

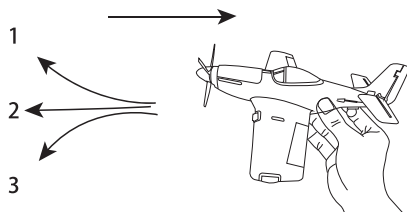
- 1.将飞机迎风放在地面、油门摇杆处于最低归零位置，再次确认所有舵面是否处于回中、舵面操控方向是否相对应。
- 2.确认上述步骤无问题后，将油门摇杆上下推拉一次解锁，轻推油门杆滑行逐步加到100%，飞机会自动爬升离开地面。

注意事项：当爬升角度不够或快要碰撞到障碍物时可操控摇杆调整姿态

Throw the takeoff

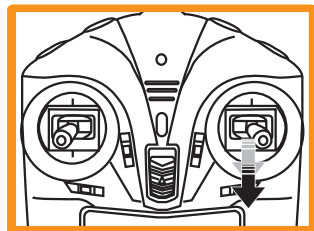
手抛起飞

1. throwing error method
1.错误投掷 方法
2. The correct method of throwing
2.正确投掷 方法
3. throwing error method
3.错误投掷 方法



landing

降落



The picture shows the
right hand throttle
图示为右手油门

When there is a low power alarm during aircraft flight, please land immediately. First, fly the aircraft to the downwind area and adjust the nose to land in the wind. Lower the throttle to reduce the flight speed, and the aircraft will slowly glide down until it contacts the ground. Then, pull the throttle to the lowest position. During the glide process, adjust the aircraft's flight attitude to maintain a smooth glide.

当飞机飞行时出现低电警报请立即降落，首先把飞机飞到下风区调整机头迎风降落，把油门拉低降低飞行速度，飞机便会慢慢向下滑行，直到飞机接触地面，然后油门拉到最低，滑行过程中要根据飞机飞行姿态进行调整，保持飞机平稳滑行。

Note:

注意:

Falling if these deviate from the rudder to play amended the wind is too large to be controlled from the aircraft downwind areas, so as to avoid excessive wind causing unnecessary losses. To prepare timely power down when the plane landed, not the battery completely run out, again if you need a missed landing improperly leave some power.

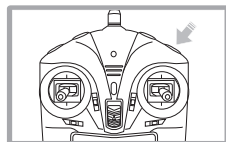
下滑过程中如果航线偏离可打方向舵修正，风力过大时要控制飞机在下风区的距离，以免因风力过大造成不必要的损失。要在飞机动力下降时及时准备降落，不要将电池完全用光，如果降落不当需要再次复飞留有一定电量。

3D / 6G mode switch

3D/6G模式切换

1. The default is 6G mode, which makes the flight more stable. When you are skilled in flight and want to do stunts, you can press the switch button to 3D mode (Press the button twice in 3D mode, the indicator light flashes twice, and the 6G mode beeps). **The operating system is more sensitive in 3D mode. Please switch the 3D mode when the aircraft is at high altitude to familiarize yourself with the flight and pay attention to flight safety (⚠)**
2. 6G mode: more stable flight, can be summarized the mode of steady and holding when level fly, in this case, plane can only fly flat, can not roll, inverted fly, side fly, somersaults or any other stunts.
3. Special note: this flight modes can be arbitrarily switched by a switch as the following figure, if the aircraft cause emergency in 3D mode, switch to mode of 6G made the aircraft to level flight immediately to reduce the crashes possibility.

1. 开机默认为6G模式，这样飞行更稳定。当你熟练飞行后想做特技动作，可以按下转换按键到3D模式（3D模式按一下按键滴滴两声、指示灯双闪，6G模式响一声）。（3D模式下操作系比较灵敏，请将飞机高空时切换3D模式，以便熟悉飞行，并注意飞行安全 ⚠）
2. 6G模式：飞行更加稳定，可简单概括为飞机平飞姿态的增稳和保持模式，在此模式下飞机只能平飞，不能做横滚、倒飞、侧飞、筋斗等特技动作
3. 特别说明：飞行中此两种模式可通过如上图中的切换开关进行任意切换，如果飞机在3D模式下出现紧急情况，切换为6G模式可使飞机立即改为平飞，减少摔机的可能性。



End Flight

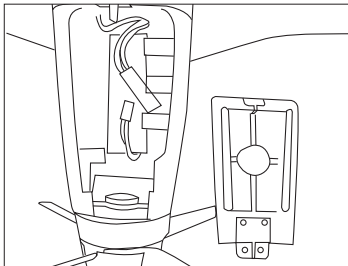
结束飞行

At the end of the flight, the model aircraft battery safe place inside removed.

Please develop good habits, so as to avoid regret.

结束飞行时，请将模型飞机内的电池安全取下。

请养成良好的习惯，以免造成遗憾。



Caveat:

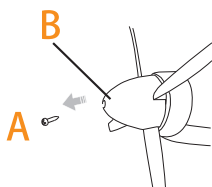
警告:

The battery is not removed, it will cause the battery to excessive discharge damage, and even cause a fire burning danger.

电池未取下，将导致电池过度放电而损坏，甚至造成起火燃烧的危险。

Replace propeller

螺旋桨更换



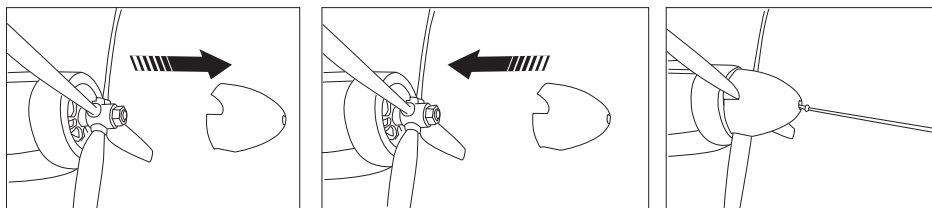
1. Screw out the fixing cowl screw A counterclockwise with an Allen screwdriver
2. Screw out the nut fixing the blade counterclockwise with an open-ended wrench or pointed nose pliers and replace it with a new blade B

1. 用内六角螺丝刀逆时针将固定整流罩螺丝拧出A

2. 用开口扳手或尖嘴钳逆时针将固定桨叶的螺母拧出，换上新的桨叶B

Replace the fairing

更换整流罩

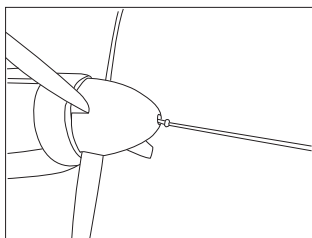


Screw out the screws fixing the fairing counterclockwise with an Allen screwdriver, and then replace with new accessories

用内六角螺丝刀逆时针将固定整流罩的螺丝拧出，然后换上新的配件

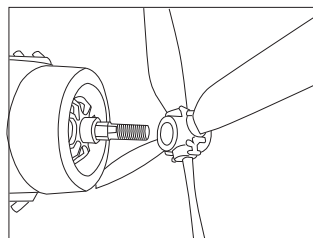
Motor replacement

马达更换



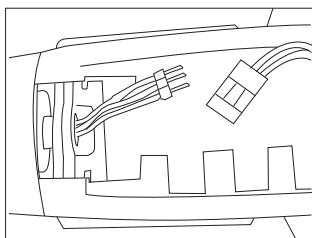
Remove the fairing with an Allen screwdriver

用内六角螺丝刀将整流罩拆下来



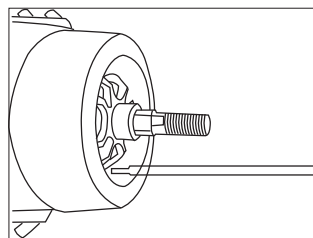
Screw out the nut fixing the blade with an open-ended wrench or pointed nose pliers and remove the blade

将固定桨叶的螺母用开口扳手或尖嘴钳拧出，取下桨叶



Unplug the motor from the power supply

拔掉马达与电源连接的插头



Screw out two 2 * 10PB screws fixing the motor with a cross screwdriver and replace the motor with a new one

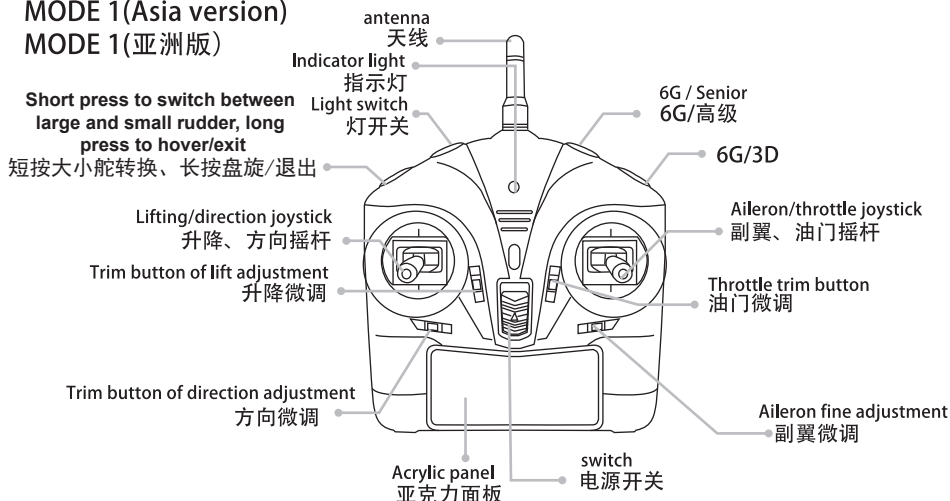
用十字螺丝刀将固定马达两颗2*10PB螺丝拧出，更换新的马达

Name of remote controller parts

遥控器各部位名称

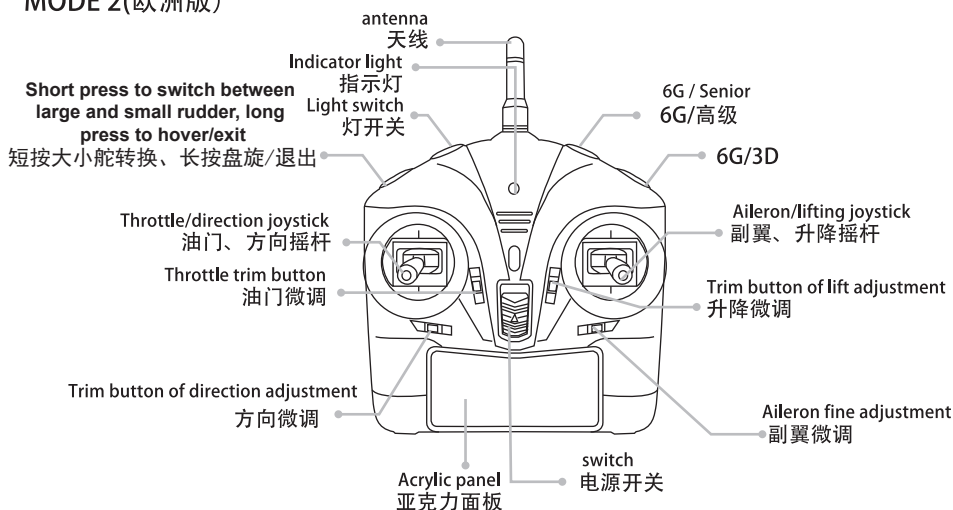
MODE 1(Asia version)

MODE 1(亚洲版)



MODE 2(European Version)

MODE 2(欧洲版)

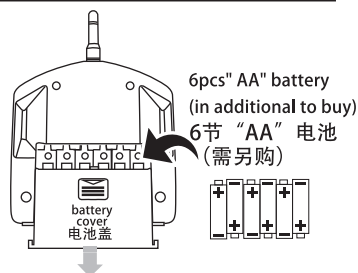


Transmitter battery installation

遥控器电池安装

Put the back of the battery cover down and out, and then install 6 pcs AA" batteries according to the positive and negative direction correctly. Finally, close the battery cover. (Do not use different types of batteries.)

将遥控器背面的电池盖向下推出，再将6节“AA”电池按正负极方向正确装入后，盖上电池盖。（勿混用不同规格的电池）



Alarm sound and throttle unlock

- 1, aircraft low power: remote control buzzer "Tick Tick" two sound cycle alarm, the aircraft indicator lights slow flashing.
- 2, remote control low power: Buzzer continued to tick, tick cycle alarm, lights slow flashing.
- 3, beyond the effective distance of the remote control, signal interference: remote control buzzer "Tick Tick" five consecutive alarm.
- 4, 3d/advanced two modes, with the remote control indicator light flashing quickly, 6G mode long bright.
- 5, the new product throttle protection function, before take-off to the throttle rocker up and down a push and pull to unlock to start the motor.

报警提示音及油门解锁

- 1、飞机低电:遥控蜂鸣器“嘀嘀”两声循环报警,飞机指示灯慢闪。
- 2、遥控器低电:蜂鸣器持续嘀、嘀循环报警,指示灯慢闪。
- 3、超出遥控器有效距离、信号干扰:遥控蜂鸣器“嘀嘀”连续5声报警。
- 4、3D/高级两个模式,遥控器指示灯双闪,6G模式长亮。
- 5、产品新增油门保护功能,起飞前需将油门摇杆上下推拉一次解锁才可启动马达。

Left and right hand conversion of remote control

1. Remove the remote control back cover and antenna head screws.
2. Take out the screw of the fixed rocker seat and the plug of the potentiometer, and install the lock screw on the exchange position of the left and right rocker. Plug the cable back into the original position, and then left-right hand switch to the corresponding mode.
3. There is a shrapnel rocker in the throttle direction and a return rocker in the aileron lift.
4. Note: after the conversion must check whether the switch is in the corresponding mode, potentiometer plug do not insert the wrong position.

遥控器左右手转换

- 1.先将遥控后盖、天线头螺丝取出。
- 2.把固定摇杆座螺丝、电位器插头取出,将左右摇杆互换位置安装锁上螺丝。线插头按原来位置插回去,然后把左右手转换开关拨动到相对应模式。
- 3.有弹片摇杆是油门方向,回中摇杆是副翼升降。
- 4.注意事项:转换后一定要检查开关是否在相对应模式,电位器插头不要插错位置。

Schematic diagram of conversion operation:

转换操作示意图:

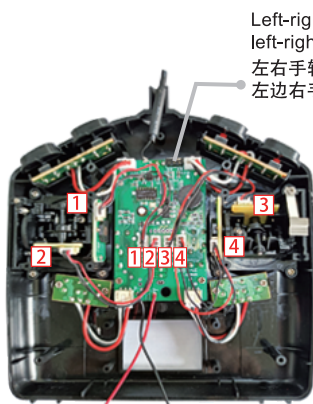


Fig. 1 installation of left hand throttle cable and rocker seat
图1左手油门排线、摇杆座安装

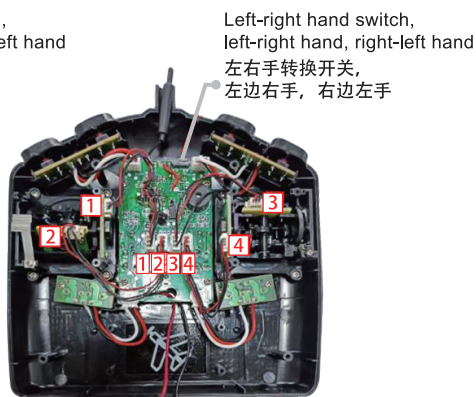


Fig. 2 installation of right-hand throttle cable and rocker seat
图2右手油门排线、摇杆座安装

Matching frequency guide of TX and receiver

遥控器与接收机对频说明

Model you bought has completed frequency matching at factory, if need to match frequency again, please follow the following tips:

1. Connect the aircraft to the battery first, and keep the aircraft stationary, then turn on the remote control. Pull the throttle lever down to the lowest position.
2. The red indicator on the remote control is on for a long time, the red light of the receiver flashes slowly, and then becomes on for a long time, and the frequency matching is completed.
3. When using the frequency, please avoid the same type of remote control with the same frequency to open, so as not to affect the frequency.

你所购买的模型在出厂前已经完成对频，如果需要重新对频，请按照如下方法对频：

1. 先将飞机连接电池，并保持飞机静止不动，接着打开遥控器。并将油门操纵杆拉倒最下端位置。
2. 遥控器上红色指示灯长亮，接收机红灯慢闪，然后变为长亮，对频完成。
3. 对频时请避免周围有同类型同频率遥控器打开，以免影响对频。

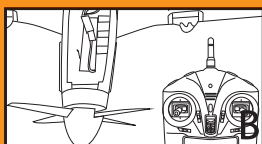
Pre-flight preparation

飞行前准备



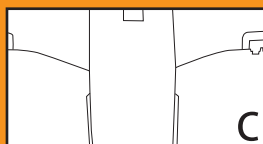
Open the battery cover and connect the battery power line with the electric regulation power line. Note that the red and black lines cannot be reversed

打开电池盖，将电池电源线与电调电源线连接，注意红黑线不能接反



Make sure the accelerator rocker is in the lowest position and the other rocker is in the middle position, and then turn on the power switch to adjust the frequency

确保油门摇杆在最低位置，其它摇杆在中间位置，然后打开电源开关对频



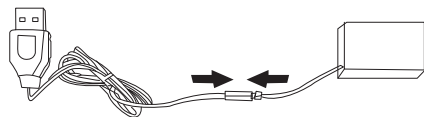
After the frequency is aligned, align the battery cover with the limit card slot and install it in place

对上频后，将电池盖对准限位卡槽装到位

USB Charger

USB 充电器使用

1. Insert the USB charger into the charging stand, and the red light flashes slowly
2. Insert the battery into the USB charging port. At this time, the red light starts to be on for a long time and goes out after the battery is fully charged.
3. The charging time is about 50 minutes.



1. 将USB充电器插入充电座，此时红灯慢闪
2. 将电池插入USB充电口，此时红灯开始长亮，
电池充满后红灯灭。
3. 充电时间约50分钟。

Caveat:

1. To ensure safety, please charge under the supervision of someone.
2. Children should not be charged by themselves and should be charged with the assistance of an adult.
3. Please use the original standard charger of this product for charging. The charger with unknown origin may have a burning explosion accident.

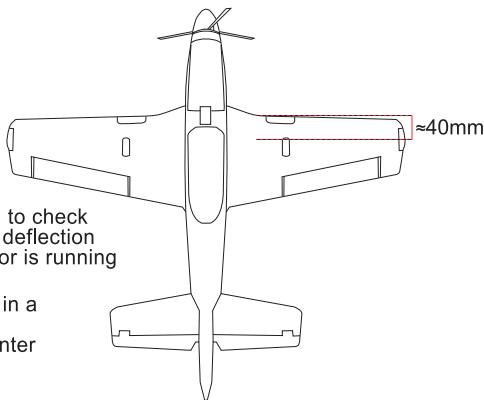
警告:

1. 为了确保安全，请在有人监护下进行充电。
2. 儿童不可独自进行充电，要在成人协助下进行充电。
3. 请使用本产品原装标配充电器进行充电，使用来历不明的充电器可能发生燃烧爆炸事故。

Pre-flight adjustments

飞行前调整

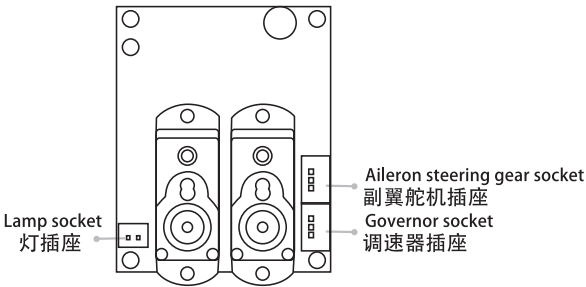
1. Turn on the transmitter, put the plane flatly on a clean flat platform, connect power battery, cover battery. Before the motor is running (in this case the gyroscope is not involved in the work) need to check if the rudder is in the neutral position, and if the deflection direction is correct, then check whether the motor is running smoothly.
2. Check if the position of aircraft gravity center is in a reasonable range:
Under normal circumstances, aircraft gravity center should be located in the range from 40mm from the wings.



1. 打开发射机，将飞机平放在平整干净的地面或平台上，连接动力电池，盖上电池盖。在电机运行之前（此时陀螺仪未参与工作）需要检查各舵面是否处于中立点位置，且偏转方向是否正确，然后再查看电机运行是否平顺。
2. 检查飞机重心位置是否处于合理范围：
正常情况下，飞机重心应该处于距机翼前缘40mm范围内：

Receiver plugs introduction

接收机插口说明



Flying operation

飞行控制方式

Prohibited to flight before do not understand the control method of this plane. Pls read this Instruction and come to understand until your finger can control the transmitter correctly.

- 1.Put the model in an open place,and the tail of model face to yourself.
- 2.Practice operate the joystick of contollr(operate as follow), and repeatedly practice throttle high/ low, left/ right aileron, rudder forward/backward and rudder left/right.
- 3.simulation fight exercises is very important, please repeat do exercise until skillful, the finger can control the plane naturally when orders.

在还没了解模型飞机各动作的操控方式前，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，直到手指可熟悉的控制各个动作及方向。

- 1.将模型飞机放在空旷的地方，并将模型飞机的机尾对准自己。
- 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。

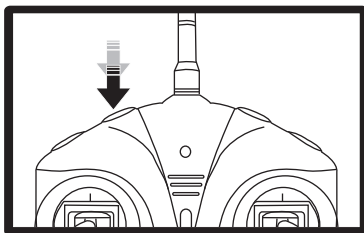
MODE	ICON 图示	MODE	ICON 图示
rise 上升		go down 下降	
rollingleft 左翻滚		rollingright 右翻滚	
turnleft 左转		turnright 右转	

Light control button

灯光控制按键

There are three modes of light control: the aircraft is powered on and frequency matched. The default mode is: long on, press the light to flash slowly, and press the light to turn off

灯光控制有三种模式：飞机通电对频，默认是长亮
按一下灯慢闪、在按一下灯关掉



6G/SENIOR(manual mode)

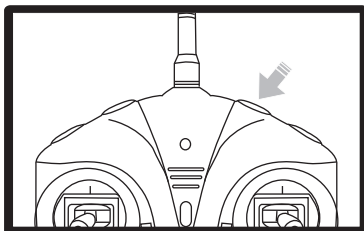
6G/高级（手动模式）

The remote start-up defaults to 6G attitude mode, and you can switch to advanced mode by pressing a button. In the advanced mode, the gyroscope is completely turned off and purely manual control. It is recommended to fly the aircraft to a certain altitude and switch to avoid operating errors and reduce the possibility of crashes.

Precautions:

The operation mode can be switched back and forth by pressing the key. Beginners are recommended to fly in 6G attitude mode.

The advanced mode (manual mode) has higher control sensitivity than 3D mode. After skilled operation, try senior mode.



遥控开机默认为6G姿态模式，通过按一下按键转换高级模式。高级模式是陀螺仪完全关闭纯手动操控状态，建议将飞机飞到一定高度在切换，避免操作失误减少摔机的可能性。

注意事项：

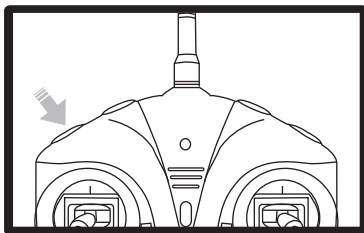
通过按键可来回切换操作模式，初学者建议在6G姿态模式飞行，高级模式（手动模式）比3D模式操控灵敏度要高等操作熟练之后在尝试SENIOR模式。

Long press to hover/exit:

长按盘旋/退出：

1. When the aircraft is about to fly out of line of sight, long press the function key to make the aircraft turn left into a hover. After hovering up close, long press to exit.

Attention: It is recommended to fly in the upwind area, while in the downwind area, it is affected by the wind to avoid improper operation and flying. Spiral slow flashing. Exit is always on.



1.当飞机快要飞出视线范围，可长按功能键让飞机往左进入盘旋，盘旋到近距离后在长按退出即可。

注意事项：飞行建议在上风区，下风区受风力影响避免操作不当飞丢。盘旋慢闪。退出常亮。

Troubleshooting guide

排除故障及异常情况

Situation 状况	Reason 原因	Countermeasure 对策
After power, aircraft lights flash and manipulate without response 飞机上电后信号灯闪动，操作无反应	Remote control and aircraft match code unsuccessfully 遥控器与飞机对码绑定不成功	Re-match code according to steps of matching code showed in page 12 按第12页内的温馨提醒中的对码绑定步骤重新对码
After frequency synchronization between the aircraft and the remote control, the control of the steering gear is normal, and there is no response when lightly pushing the throttle motor 飞机与遥控对频后，舵机操控正常，轻推油门马达没反应	The throttle lever is not unlocked 油门摇杆没有解锁	Follow the steps to unlock the throttle on page 11 按第11页油门解锁操作步骤解锁
After frequency synchronization between the aircraft and the remote control, the aircraft indicator light will slowly flash and the remote control will alarm for a short period of time when the fuel door is pushed 飞机与遥控对频后，推油门短时间内飞机指示灯慢闪、遥控器报警	The battery is low, speed controller enters shutdown protection 电池电量过低，调速器进入关断保护	Charge the battery or replace the charged battery 将电池充电或更换有电的电池
Individual rudder servo block when manipulating the joystick 摇杆操纵时个别舵机出现卡舵现象	Steering gear teeth to be less 舵机齿轮出现少齿	Replace the faulty steering 更换有问题的舵机
Powerful vibration when the motor is running 马达运转时震动的很厉害	Blade deformation and motor shaft bending 桨叶变形、马达轴撞弯	Replace the damaged blade and motor 更换坏的桨叶、马达
Model yaw fly, can not fly straight 模型飞起来偏舵，不能直线飞行	The rudder surface is not in the center position, the foam is deformed, and the remote fine adjustment is not centered 舵面没有在居中位置，泡沫变形、遥控微调没有回中	1. Turn the rudder back to center 2. Manually repair the foam deformation position, return to the middle of the remote control fine-tuning and restart, and can be adjusted by the remote control fine-tuning during flight 1.将舵面回中 2.手动修复将泡沫变形位置掰回、遥控微调回中重新开机、飞行中可以通过遥控微调调整
Plane fly but gyroscope has no reaction, can not repair normally 飞机飞起来陀螺仪无动作，不能正常修复	Gyroscope is out of control 陀螺仪失灵	Replace the receiver 更换接收机
After remote control conversion of the right-hand throttle, the control of the aircraft channel is incorrect 遥控转换右手油门后，操控飞机通道不对	The left and right hand transfer switches did not switch to the corresponding mode 左右手转换开关没有掰到相对应模式	Adjust according to the left and right hand control steps on page 11 按第11页左右手转换操控步骤调整



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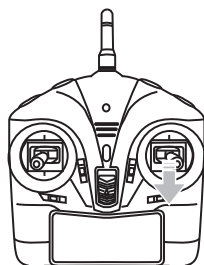
Special reminder

特别提醒

A280 ground takeoff skills

A280 地面起飞技巧

1. First electrify the plane, then turn on the remote control to the frequency. Position the aircraft upwind on a smooth ground (6-axis mode)
2. First, push and pull the throttle lever up and down to unlock it, then slowly push the throttle to the 100% position. At this time, the aircraft quickly glides forward until it leaves the ground and maintains a head up climb. When climbing to a certain altitude, the aircraft will automatically exit the head up attitude and fly smoothly.
3. The remote control joystick can also be operated to adjust the attitude of the aircraft when the ground glide distance is not enough or when the aircraft is about to hit an obstacle.



- 1.先给飞机通电，然后打开遥控对频。将飞机迎风放置在平稳地面（6轴模式）
- 2.先将油门摇杆上下推拉解锁然后慢慢将油门推至100%位置，此时飞机快速向前滑行，直至离开地面并保持抬头爬升，爬升到一定高度飞机会自动退出抬头姿态然后平稳飞行。
- 3.在地面滑行距离不够或者快碰撞到障碍物时也可操作遥控摇杆调整飞机姿态。

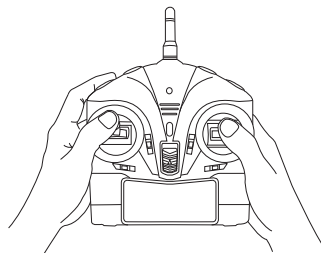
Anti-loss and low alarm aircraft

1. Aircraft anti-loss function: When the aircraft is about to fly out of line of sight, long press the function key to make the aircraft turn left into a hover (the aircraft needs sufficient power to hover, and the throttle cannot be pulled to the lowest position). When the hover reaches the controllable range, long press to exit. The radius of the hover will also change due to the influence of wind. If there is signal interference in the flight environment or exceeds the effective distance of the remote control, the flight control will also emit 5 consecutive beep alarm prompts.
 2. Low Alarm: aircraft, remote control added low alarm function, more effective protection of the battery. In the course of flight can be ahead of the safe landing, to avoid overcharging lead to flight loss, crash.
- Note: It is recommended to fly towards the upwind area when there is wind outside, and try not to exceed the line of sight to avoid improper operation and flying. When a low battery alarm is triggered, the aircraft attitude should be adjusted in a timely manner to safely land in advance.

飞机防丢失功能以及低电报警

1. 飞机防丢失功能：快要飞出视线范围内可长按功能键让飞机往左进入盘旋（飞机盘旋要有足够动力、油门不能拉到最低位置），当盘旋到可控范围在长按退出即可。受风力影响盘旋半径也会随着变化，如果飞行环境有信号干扰或超出遥控有效距离，飞控也会发出连续5声滴滴报警提示。
2. 低电报警：飞机、遥控新增低电报警功能，更有效的保护电池不过放。在飞行过程中可提前安全降落，避免电池过放导致飞丢、坠机。

注意事项：在室外有风的情况下建议朝上风区飞行，尽量不要超出视线范围避免操作不当飞丢。低电报警时应及时调整飞机姿态提前安全降落



Suggest flying in the upwind zone

建议在上风区飞行