Shenzhen XK Innovations Technology Co., Ltd.

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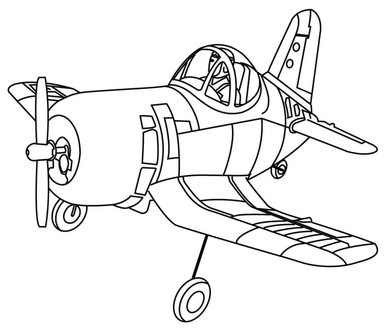
14+

A500

4CH 3D6G SYSTEM AIRPLANE

快速入门手册

3D⇄6G SWITCH



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Product introduction
产品简介

1. The four channel design is simple and easy to learn. The blades, motors and wings can be disassembled for easy replacement. The flight control system adds two receiver conversion sockets. 5V is suitable for Futaba (S-bus) and other receivers with (S-bus) ports, and 3V is suitable for DSM receivers. Customers can control the product through an external receiver.
2. EPP + engineering plastics, with a flying weight of about 70g.
3. The built-in six axis gyroscope flight self stabilization system, combined with 1020 motor super power deceleration group and route locking, is more stable. The remote control 6G / 3D mode can be switched freely, and the 6G mode is suitable Beginners fly. 3D mode can realize somersault, left-right roll and inverted flight. It is recommended to fly the aircraft to a certain height for operation to avoid improper operation and reduce the risk of fallingpossibility.
4. USB special charger can effectively protect the battery from overcharging.
5. The upper part of the aircraft is dark blue and the lower part is light blue, showing the mini appearance of version Q. the transparent cabin cover and the pilot make the appearance of the aircraft more simulated.
6. The operation is simple, and beginners can easily master it. Simple Mini Q color box packaging, easy to carry.
7. Standard battery Li-Poly 3.8V (400mah) 25c, super endurance glide flight for about 12 minutes.
8. The unique snap structure design of the wind blade assembly will automatically fall off when the wind blade hits an obstacle, which can more effectively protect the motor from damage

1. 四通道设计，简单易学，风叶、马达、机翼可拆卸便于更换，飞控系统新增两个接收机转换插座，5V适用于FUTABA(S-BUS)跟其它带(S-BUS)端口的接收机，3V适用于DSM接收机。客户可通过外接接收机操控产品。
2. EPP+工程塑料，飞行重量70g左右。
3. 内置六轴陀螺仪 飞行自稳系统，搭配1020马达超强动力减速组、航线锁定更稳定。遥控6G/3D模式随意切换，6G模式适合初学者 飞行。3D模式可实现翻筋斗、左右横滚、倒飞，建议将飞机飞到一定高度在操作，避免导致操作不当减少摔机的可能性。
4. USB专用充电器，更有效的保护电池不过充。
5. 飞机上部分深蓝色搭配下部分浅蓝色尽显Q版迷你外观，透明机舱罩加上驾驶员使飞机外观更仿真。
6. 操作简单，初学者也能够轻松掌握。简易迷你Q版彩盒包装，方便随身携带。
7.标配电池LI-POLY 3.8V(400MAH) 25C，超强续航滑翔飞行约12分钟。
8.风叶组件独特卡扣结构设计，当风叶撞击到障碍物时会自动脱落，更有效的保护马达不易损坏

Basic parameters and configuration
基本参数及配置

Parameter:		参数:	
1. Wingspan:	350mm	1.翼展:	350mm
2. Full length:	290mm	2.全长:	290mm
3. Flying full weight:	70g	3.飞行全重:	70g
4. Body material:	EPP	4.主体材质:	EPP
5. Flight time:	Glide flight about 12 minutes	5.飞行时间:	滑翔 飞行约12分钟
Configuration:		配置:	
1. Battery:	3.8V 400mAh 25c	1.电池:	3.8V 400mAh 25c
2. Remote controller:	4 channels	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	6	Wing assembly instructions 机翼组装说明	1	11	Blade 风叶组	1
2	Foam box 发泡盒	1	7	USB Charger USB充电器	1	12	Wing 机翼	1
3	Introduction Manual 入门手册	1	8	Left/right/rear landing gear 左/右/后起落架	1	13	Wing fixing screws 机翼固定螺丝 1.5*6PB	2
4	Airframe 机体	1	9	Remote controller 遥控器	1	14	Fan blade fixing screw 风叶固定螺丝 1.7*8PB	2
5	Battery 电池	1	10	Phillips screwdriver 十字螺丝刀	1	15	Motor base fixing screws 马达座固定螺丝 1.5*6PB	4

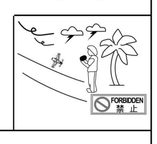
Safety precautions
安全注意事项

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害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。

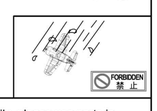
This product is suitable for outdoor and under wind condition less than Grade 4. When flying model aircraft, please select the proper outdoor space without obstacles, and maintain an appropriate distance away from the crowd or pet, do not operate in an unsafe environment, such as heat, wires, power supplies, 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。



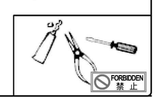
Airplane internal is made up of many precision electronic parts, it is absolutely necessary to prevent from moisture or water vapor, to avoid using in bathroom or rainy day, to prevent moisture from entering the inside body or electronic components and cause by unexpected danger!

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，任何的升级改装或维修，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。

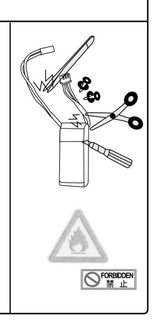


Make sure that the positive and negative electrode position are correct, do not mix old and new batteries to avoid affecting the battery life. Batteries should be taken out if don't use for long time to avoid liquid leakage or any fault. If battery leakage do not use any more. Discarded appliances, please 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。

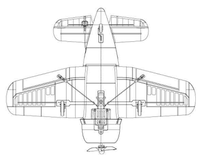
This product uses ages over 14 years old, remote control glider has a certain degree of difficulty in the early stage of learning, want to skillfully control the model glider need simulator fly.

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，需要熟练操控模拟器上面的模型滑翔机可飞行。

Landing gear installation
起落架安装

Install the front and rear landing gear into the landing gear seat in the direction shown in the figure. The tilt angle of the front landing gear is forward, and the tilt angle of the rear left and right landing gear is backward.

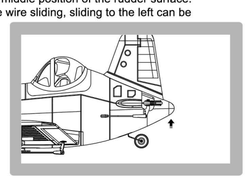
将前后起落架按图示方向，向下装进起落架座里。前左右起落架倾斜角度朝前，后起落架倾斜角度朝后。



Aircraft rudder adjustment
飞机舵调节

1. To power the aircraft, ailerons, elevator surface should be back in the middle, if the rudder surface is not in the middle position, by manually rotating the loose joint, make the rudder surface to the middle position. **Aileron wire adjustment requires the wing to be disassembled.**
2. Adjust aircraft motor can not be started before, gyroscope is off. 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.

1.给飞机上电，副翼 升降舵面应该回中，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。副翼钢丝调节要将机翼拆开。
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 旋可加长推拉钢丝长度 。



Flight control mode
飞行控制方式

It is strictly forbidden to fly a model plane until you know how to control its movements. Please read the instruction manual, be familiar with the control of each direction and repeat it until your fingers can control the movements and directions.
1. Place the model airplane in an open area and point the tail of the model airplane at yourself.
2. Practice operating each rocker of the remote control (the operation mode of each action is shown in the figure below), and repeatedly practice the operation modes of high / low throttle, left / right aileron, front / rear elevator and left / right rudder.
3. Flight simulation exercise is very important, please repeat the exercise until you do not need to think, the finger can naturally follow the command to move control.

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	图示	MODE	图示
上升	舵面向上	下降	舵面向下
左翻滚	向上 / 向下	右翻滚	向下 / 向上

Off the ground
地面起飞

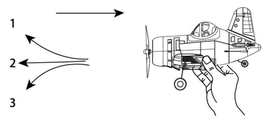
Place a horizontal plane
放置水平面上

1. Place the aircraft on the ground windward, reconfirmed the presence or absence of each rudder gyrus, rudder direction is correct.
2. Verify that no problem after the above steps, push the throttle stick gradually slide to 100%, and pulled a light / down rocker, the aircraft off the ground.

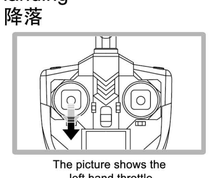
1.将飞机迎风放在地面，再次确认各个舵面有无回中，舵面方向是否正确。
2.确认上述步骤无问题后，轻推油门摇杆滑 行逐步加到100%，并轻拉升/降摇杆,使飞机离开地面。

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 left hand throttle
图示为左手油门

First of all, the aircraft fly to the leewardarea to adjust the nose landing, throttle low, reduce the speed of flight, the aircraft will slowly downward taxi, untilthe aircraft contact the ground, and then pull the throttle to the lowest, taxiing process should be adjustedaccording to the flight attitude, keep the aircraft smooth taxing

当飞机飞行时感觉动力不足时请立即降落，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。

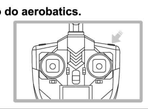
Note:
注意:
If the course deviates during the glide, the rudder can be adjusted to correct. When the wind is too strong, the distance of the aircraft in the leeward zone should be controlled to avoid unnecessary losses caused by the excessive wind. Prepare for landing in time when the aircraft's power drops, do not completely use up the battery, if the landing is not successful, you can have a certain amount of battery power to landing again

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 conversion
3D/6G转换

1. The boot defaults to 6G attitude mode, by short pressing the mode switch button and making two beeps, it will be converted to 3D (Locking red indicator flash)
2. When flying in 3D mode, no matter what the flight attitude is, short press the mode switch button and make a beep to switch to 6G mode, and the flight will immediately return to a stable attitude.
3. 6G gesture mode is suitable for beginners flight, 3D mode to do aerobatics.

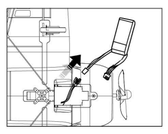
1. 开机默认为6G姿态模式，通过短按模式切换按钮，并“滴滴”两声，转换为3D（锁定式红色指示灯快闪）
2. 3D模式飞行，无论飞行处于任何姿态，通过短按模式切换按钮，并“滴”一声，转换到6G模式，飞行马上恢复到平稳姿态。
3. 6G姿态模式适合初学者飞行，3D模式可做特技飞行。



End Flight
结束飞行

At the end of the flight, take out the battery safety 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。

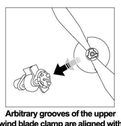
Caveat:
警告:
The battery is not removed, it will cause the battery to excessive discharge damage, and even cause a fire burning danger.
电池未取下，将导致电池过度放电而损坏，甚至造成起火燃烧的危险。



Replace propeller
螺旋桨更换

Take out the fan blade assembly
将风叶组件朝任意方向斜着掰下来

Use a manual screwdriver to unscrew the fan blade fixing screw
用手动螺丝刀拧出风叶固定螺丝



Arbitrary grooves of the upper wind blade clamp are aligned with any semi-circular convex limit point of the lower wind blade clamp and installed obliquely.
上风叶夹任意凹槽对准下风叶夹任意一个半圆凸起限位点斜着装到位。

The position marked "I" on the side of the leeward blade clamp is aligned with the flat position of the reduction shaft.
下风叶夹侧面有记号“I”的位置对准减速轴扁位装配即可

First remove the fan blade assembly, hold the fan blade in your hand, then use a manual screwdriver to take out the fan blade fixing screw, replace the new fan blade and lock the screw back.

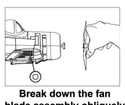
先取下风叶组件，手拿住风叶，然后用手动螺丝刀将风叶固定螺丝取出，更换新的风叶在把螺丝锁回即可。

Note: When replacing the new blades and reinstalling, align any groove of the upper wind blade clamp with any semicircular convex limit point of the lower wind blade clamp and install it in place obliquely. Misalignment may result in poor assembly of the fan blade assembly. If the entire downwind blade clamp is accidentally pulled out, just align the position marked "I" on the side of the fan blade clamp with the flat position of the reduction shaft during installation.

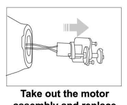
注意事项：更换新的风叶重新安装时，将上风叶夹任意凹槽对准下风叶夹任意一个半圆凸起限位点斜着装到位，不对点可能导致风叶组件不好装配，如果下风叶夹整个不小心被拔出，安装时只需将风叶夹侧面有记号“I”的位置对准减速轴扁位装配即可。

Motor replacement
马达更换

Take out the wing fixing screws, remove the wing and unplug the motor plug
取出机翼固定螺丝，拆下机翼、拔掉马达插头



Break down the fan blade assembly obliquely in any direction
将风叶组件朝任意方向斜着掰下来

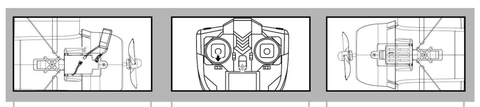


Take out the motor assembly and replace the motor
取出马达组件更换马达

Note: When reinstalling the fan blade assembly, align any groove of the upper wind blade clip with any semicircular convex limit point of the lower wind blade clip and install it in place obliquely. Misalignment may result in poor assembly of the fan blade assembly. If the entire downwind blade clamp is accidentally pulled out, you only need to align the position marked "I" on the side of the fan blade clamp with the flat position of the reduction shaft during installation.

注意事项：风叶组件重新安装时，将上风叶夹任意凹槽对准下风叶夹任意一个半圆凸起限位点斜着装到位。不对点可能导致风叶组件不好装配，如果下风叶夹整个不小心被拔出，安装时只需将风叶夹侧面有记号“ I ”的位置对准减速轴扁位装配即可。

Pre-flight preparation
飞行前准备



1. Open the battery cover, correctly connect the battery to the connector, and then lay the aircraft flat on the ground. The battery should be installed vertically into the foam slot.
1. 打开电池盖，将电池与连接头正确连接，然后将飞机平放在地面上。电池要竖着装到泡沫卡槽。

2. Turn on the remote control, the indicator light of the remote control is on for a long time, and the code matching is completed.
2. 打开遥控器，遥控器指示灯长亮，对码完成。

3. Install the battery into the battery compartment and cover the battery cover.
3. 将电池装入电池仓，并盖好电池盖。

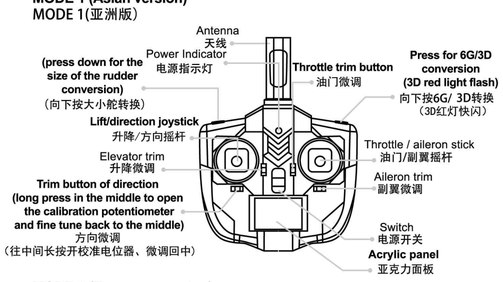
Matching frequency guide of TX and receiver
遥控器与接收机对频说明

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 controller flashes, the red light of the receiver flashes slowly, and then becomes long, and the frequency matching is completed. Install the battery vertically into the foam card slot.
3. When using the frequency matching, please avoid the same type of remote control with the samefrequency to open, so as not to affect the frequency.

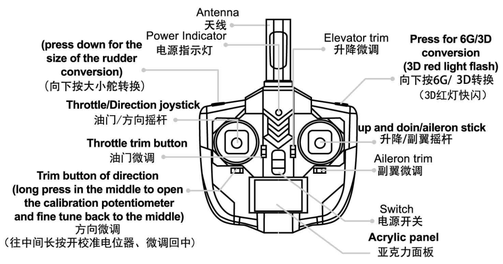
你所购买的模型在出厂前已经完成对频，如果需要重新对频，请按照如下方法对频：
1. 先将飞机连接电池，并保持飞机静止不动，接着打开遥控器。并将油门操纵杆拉倒最下端位置。
2. 遥控器上红色指示灯闪亮，接收机红灯慢闪，然后变为长亮，对频完成。将电池竖着装到泡沫卡槽位置。
3. 对频时请避免周围有同类型同频率遥控器打开，以免影响对频。

Name of remote controller parts
遥控器各部位名称

MODE 1 (Asian version)
MODE 1(亚洲版)



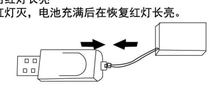
MODE 2 (European version)
MODE 2(欧洲版)



USB Charger
USB 充电器使用

1. Insert the USB charger into the charging base, and the red light will be on at this time
2. Insert the battery into the USB charging port, the red light is off at this time, and the red light will be on when the battery is fully charged
3. The charging time is about 80 minutes.

1. 将USB充电器插入充电座，此时红灯长亮
2. 将电池插入USB充电口，此时红灯灭，电池充满后在恢复红灯长亮。
3. 充电时间约80分钟。



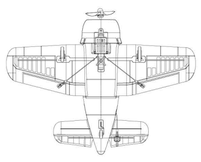
Caveat:
1. To ensure safety, please charge under the supervision of someone.
2. Children should not be charged by themselves and should be charged with the assistance of an adult.
3. Please use the original standard charger of this product for charging. The charger with unknown origin may have a burning 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 **30**mm 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，然后再查看电动运行是否平顺。
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77mm范围内。

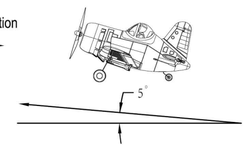


Hand throwing takeoff right way
手掷起飞正确方法

As shown in the figure, against the wind, at full power, at an angle of 5 °, try to throw the aircraft with force.
如下图中所示，逆着风向，开足动力，以5° 的角度将飞机用力掷出 。

(Note: aircraft took off under 6-axis mode, on condition of throwing correctiy , the aircraft will automatically default to climb attitude.Since aircraft has function of attitude correction, at this stage as long as the plane did not head drop, it is not recommended pull the elevator rocker, otherwise the plane will fly back down .)

（注：飞机以6轴模式起飞时，正确投掷的前提下，飞机默认以爬升姿态飞行，由于飞机有姿态修正功能，此阶段只要飞机没有低头趋势，建议不要向下拉升降舵摇杆，否则飞机会有反向低头飞行的趋势。）



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 for 3D mode(red light flash), and once for 6G mode**). **(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.

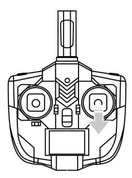
1. 开机默认为6G模式，这样飞行更稳定。当你熟练飞行后想做特技动作，可以按下转换按键到3D模式（ 3D模式按一下按键嘀嘀两声（红灯快闪），6G模式响一声）。**(3D模式下操作系比较灵敏，请将飞机高空时切换3D模式，以便熟悉飞行，并注意飞行安全 ⚠)**
2. 6G模式：飞行更加稳定，可简单概括为 飞机平飞姿态的增稳和保持模式，在此模式下飞机只能平飞，不能做横滚、倒飞、侧飞、筋斗等特技动作
3. 特别说明：飞行中此两种模式可通过如上图中 的切换开关进行任意切换，如果飞机在3D模式下出现紧急情况，切换为6G模式可使飞机立即 改为平飞，减少摔机的可能性。

Troubleshooting guide
排除故障及异常情况

Situation 状况	Reason 原因	Countermeasure 对策
After power,on aircraft lightsflash and manipulate without response 飞机上电后信号灯闪动，操作无反应	**Remote control and aircraft match unsuccessfully** 遥控器与飞机对码绑定不成功	**Re-match according to steps of matching showed in page 8** 按第8页内的温馨提醒中的对码绑定步骤重新对码
After power on, gyroscopebegan to work beforemotor starts 飞机上电后未启动马达陀螺仪就开始工作	**Power on the plane when the throttle stick is not in the lowestposition or throttle trim is too high** 飞机上电时油门摇杆未在最下位置或油门门微调过高	**Pull throttle stick in the correct position, power on again after the throttle trim is back to the midpoint** 将油门摇杆放到正确位置，将油门微调回到中点后从新上电
After power on, the plane does not turn when pushingthe throttle, steering lightswork properly 飞机上电后推动油门不转，信号灯正常舵机工作正常	**The battery is too low and the receiving board enters shutdown protection** 电池电量过低,接收板进入关断保护	**Charge the battery or replacethe charged battery** 将电池充电或更换有电的电池
Individual rudder servo blockwhen manipulating the joystick 摇杆操纵时个别舵机出现卡舵现象	**Servo gear teeth to be less** 舵机齿轮出现少齿	**Replace the faulty Servo** 更换有问题的舵机
Powerful vibration when themotor is running 马达运转时震动的很厉害	**The blade is deformed, the motor is damaged** 风叶变形、马达撞坏	**Change new blade and motor** 更换好的风叶跟马达
Model yaw fly, can not fly straight 模型飞起来偏舵,不能直线飞行	**Uneven rudder surface or deformation of flat tail** 舵面不平或平尾变形	**Adjust the rudder surface level or use the remote control trim buttm to gdiust the posture. The deformation of the flat tail can be repaired manually** 将舵面调水平或打遥控微调调整姿态，平尾变形可手动修复
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
The plane is still in operationwhen the plane lands or thethrottle stick is in the lowest position 飞机降落，或油门摇杆在最下位置，马达仍在运转	**During flight, mistakenly raised throttle trim** 飞行中误将油门微调调高	**Turn the throttle trim back to the mid-point** 将油门微调调回中点

Special reminder
特别提醒

A500 ground flying skills and precautions during flight
A500地面飞行技巧以及飞行过程中注意事项

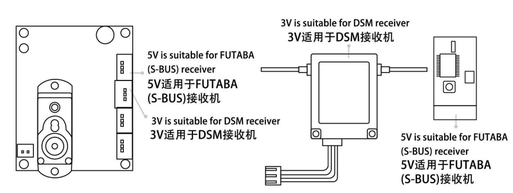


1. Place the aircraft on a stable ground facing the wind and the remote control is on. (6-axis mode)
2. Slowly push the throttle from the minimum to the maximum. At this time, the aircraft will glide forward from slow to fast, and then adjust the lift stick according to the attitude of the aircraft. When the climb height is not enough, you can pull the lift stick down. Until aircraft leave the ground and raise the head to climb, slowly release the lift stick after the flight altitude is 10 meters.
3. After releases the joystick, the aircraft's nose will be slightly downward for less than a second due to inertia, and the head-weight phenomenon will appear. This is caused by the aircraft's inertia. The gyroscope will immediately start to work and immediately keep the aircraft in a stable attitude.
4. When turning left and right during the flight, if the aircraft bows slightly or the steering range is too large, you can properly pull down the lifting joystick to repair it according to the flight attitude.

1.将飞机迎风放置在平稳的地面，遥控器在开机状态。(6轴模式)
2.慢慢将油门从最小值推到最大值，此时飞机由慢速变快速向前滑翔行，然后根据飞机姿态调整升降摇杆，爬升高度不够的时候可以将升降摇杆往后拉，直至离开地面抬头爬升，待飞行高度在10米后慢慢松开升降摇杆。
3.飞机松开摇杆后飞机会因为惯性会出现不到一秒钟机头略微向下，显现头重现象，系飞机惯性导致，陀螺仪会马上开始工作，马上使飞机保持平稳姿态。
4.飞行过程中左右转向的时候，如果飞机出现轻微低头或转向幅度偏大，可以根据飞行姿态适当的往下拉点升降摇杆修复。

A500 receiver adopts GFSK communication mode, and two receiver conversion sockets are added. 5V is suitable for FUTABA (S-BUS) and other receivers with (S-BUS) ports, 3V is suitable for DSM receivers; other remote controls can be used to control the aircraft through conversion, and other remote controls must first set the 5th channel The switch position can be set by the user according to their own flight needs, and the switch can switch between 3D lock mode or 6G attitude mode. Be careful not to insert it in the wrong position to avoid burning the receiving board due to incorrect voltage.

A500接收机采用GFSK通信方式，新增两个接收机转换插座。5V适用于FUTABA(S-BUS)跟其它带(S-BUS)端口的接收机，3V适用于DSM接收机；通过转换可实现用其它遥控操控飞机，其它遥控器要先设置第5通道开关位置，用户可根据自己飞行需要来设定，通过开关切换3D锁定模式或6G姿态模式。一定要注意不要插错位置，避免导致电压不对烧坏接收板。



Warning:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio/TV technician for help.**

A500 中英文说明书