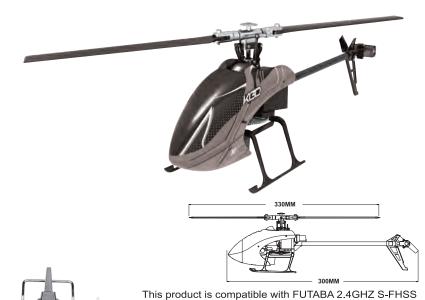
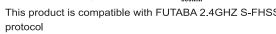




# K130 三通元制马达3D/6G元副翼直升机 使用说明书 **INSTRUCTION MANUAL**





Brushless motor, super power, compatible with 3-axis gyroscope and 6-axis gyroscope mode, 3-axis flight stunt ultra-stable, 6-axis is especially suitable for beginners flying 本产品兼容FUTABA 2.4GHZ S-FHSS协议

无刷马达,超强动力,同时兼容3轴陀螺仪与6轴陀 螺仪模式,3轴飞行特技超稳定,6轴特别适合初学 者飞行





#### PACKAGING LIST 包装清单

NO	PART NAME	零件名称	QUANTITY
1	Gift box	包装彩盒	1
2	Remote control box	遥控器盒	1
3	Accessory box	配件盒	1
4	Instruction manual	使用说明书	1
5	Helicopter	直升机	1
6	Transmitter	发射机	1
7	charger	充电器	1
8	Adaptor	适配器	1
9	battery 7.4v 600mah 25C	电池 7.4v 600mah 25C	1
10	Cross screwdriver / hex wrench	十字螺丝刀+六角扳手	1
11	Main blade /Tail rotor	主桨+尾桨	1 Set

#### NOTICE 注意事项

- All instructions, warranties and other collateral documents are subject to change at the sole discretion of our company. For up-to-date product literature, visit Our website www.xk-innovations.com
- 所有的说明,本公司有权更改担保及其他相关文件的权利,更新的信息请访问本厂网址。

#### WARNING 警告

- Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury. This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.
- 操作前,请阅读整个说明书以便了解该产品的功能。未能正确地操作本产品可能会导致产品损坏,对人身财产造成严重损害。这是一个复杂的模型产品,而不是一玩具。不仅要谨慎操作,还需要具备操作常识和操作基础。若未能安全使用该产品,会毁坏该产品或者对人身,或者对其他财产造成损失。本产品不供没有成人监督下的儿童直接使用。本手册内容包括安全、操作、维护。因此,在装配,安装或使用产品前。我们必须阅读并遵守本手册中所有的提示和警告,以便正确操作,避免造成损伤或严重伤害。

# ADDITIONAL SAFETY PRECAUTIONS AND WARNINGS 附加安全措施防范和警告

- 1. Age Recommendation: Not for children under 14 years. This is not a toy.
- 2. Always operate your model in open spaces away from full-size vehicles, traffic and people.
- 3. Follow the operation notice, warning and any support equipment (charger, battery, etc) carefully.
- 4. Keep away from any chemicals; keep children away from any small parts and electrical equipment.
- Always keeping away from water, especially for this product don't have waterproof function; It will be damaged by moisture.
- 6. Never place any portion of the model in your mouth as it could cause serious injury or even death.
- 7. Never operate your model with low voltage transmitter batteries.
- 1.年龄建议: 不适合14岁以下的儿童, 这不是一个玩具。
- 2.始终在开放的空间操作你的模型,远离车辆、交通和人。
- 3.必须仔细地遵循操作说明和警告,以及任何可选的支持设备。(充电器,可选充电电池等)
- 4.始终保持远离所有的化学品,细小部件跟用电设备需远离儿童接触。
- 5.应避免与水接触,尤其此设备的设计不具备防水功能;水汽也会导致电子产品损害。
- 6.切勿将模型的任何部件放在嘴里,因为它可能会导致严重受伤甚至死亡。
- 7.当发射机电池电压过低时切勿操作你的模型。

#### INTRODUCTION 简介

- This is a super classic helicopter with excellent flight performance. Flybarless design, decrease resistance of rotor head. Quote to aerodynamics, the blades can supply strong power and keep stability. Using new type gyro, compatible with 3D and 6G mode. You can make a variety of stunts by 3D mode; 6G mode is suitable for beginners especially.
- After flying this mini helicopter, you will find other mini helicopters which you have flying are eclipsed, this is a incomparable and popularization helicopter. Beginners will find it is easily to fly, masters will find it is interesting. It is worth to be possessed.
- This manual with detailed instruction ,will help you learn more about the product. Pls read it before your flying.

这是一款飞行性能超经典的直升机,采用无副翼设计,减少旋翼头的阻力。引用空气动力学设计的桨叶,提供了强劲的动力及机体自稳性。电子采用新型陀螺仪,集3轴与6轴模式一体,3轴模式特技飞行,你可以很轻松的做出各种特技动作,6轴模式超稳定,特别适合初学者飞行。

飞过这款微型直升机后,你会发现以前飞过的微型直升机在他面前都会黯然失色,这才是一款真正无法比拟的,真正适合大众化的直升机,初学者会觉得他很好飞,飞行高手会觉得他很 有趣味,是绝对值得拥有和称赞的。

本说明书有助于你详细了解该产品,有详细的产品功能介绍,飞行前请仔细阅读。

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#### HELICOPTER PARAMETERS 飞机参数

长度	Length	300 MM
高度	Height	100 MM
重量	Weight	128g
主桨长度	Propeller length	330 MM
尾桨直径	Tail rotor blade diameter	46 MM
电池规格	Battery specification	7.4v 600mah 25C
飞行时间	Flight time	5-6
主马达无刷马边	灶 Main motor brushless	1308
尾马达	Tail motor	1020

# WARNING AND THE GUIDE OF USING BATTERY 电池使用警告与向导













To ensure safety, pls use the standard charger inside. 附带的电池充电器可以安全的给聚合物锂电池充电。

**WARNING**: It is recommended to use the original power supply charger when charging, otherwise property damage and injury will occur.

警告: 充电时建议使用原厂提供的电源充电器,否则会导致财产损失和伤害发生。

**Notice:** When it is lower than 7.4V, the lithium battery may be damaged, or it may no longer be charged. When the battery voltage is lower than 7.4V when the aircraft is flying, the power of the aircraft drops significantly. Please immediately land and charge the battery in time.

注意: 当低于7.4V时,锂电池可能会被损坏,或者可能不再接受充电;飞机飞行时电池电压低于7.4V时,飞行动力下降明显,请立即降落并且及时给电池充电。

#### BATTERY CHARGING 电池充电



- 1. Connect the power adapter to the Lipo charger.
- 2. Plug the connected charger into the AC outlet, and the power indicator (green light) of the Lipo charger will light up.
- Insert the battery plug into the charger, the charging indicator (red light) will be on, and the red light will be off after the battery is saturated.

- 1. 将电源适配器与Lipo充电器就行连接。
- 2. 再将连接好的充电器插入AC插座,此时Lipo充电器的电源指示灯(绿灯)长亮。
- 3. 将电池插头插入充电器内, 充电指示灯(红灯)长亮, 电池饱和后红灯灭。

#### Caveat:

- 1. To ensure safety, please charge under the supervision of someone.
- 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。

#### FIRST FLIGHT PREPARATION CAUTION 飞前注意事项

- 1. Make sure the battery power is full both for TX and helicopter.
- Before open the power of TX, please make sure the TH. Stick at the bottom and the switch of TH.HOLD and 3D mode in back position (back cover direction).
- 3. Make sure the TX is binding with helicopter, or please rebind them.
- 4. Please open TX first, then connect the battery with the RX board on helicopter to bind with TX. When close, please cut the power of helicopter first, and then turn off the TX.
- 5. Keep away from crowd, cars, high-tension towers and pond. Then you can start your flying.
- 1.确认发射机电源是否充足,直升机电源是否充足。
- 2.打开发射机电源开关时,请确认发射机油门摇杆在最下方,确认发射机两侧的油门保持开关和特技模式开关拔向后面。(后壳方向)
- 3.确认发射机与直升机是否同频,如果异常请重新对码。
- 4.开机时先打开发射机,然后将电池连接上接收机进行对码,关机时先拔掉电 池与接收机的连接线,再 关闭发射机电源。
- 5.寻找一个合适飞行的场地,远离人群、车、高压电塔、水塘等,方可进行安全愉快的飞行。

#### BINDING TX AND RX 发射机和接收机对码

You buy the original model, the factory has been completed on the code, if you need to re-code, do as following.

- 1. First open the remote control, make sure the throttle stick in the bottom position, 3D / IDLE switch in the OFF position
- 2. Take down the canopy for touching the code switch.
- 3. Charge the helicopter, the red lamp flashes slowly, press the code button for 1 second, then the red lamp go out and into a state of binding of code.
- 4. Complete the binding of code when red and blue lamp are brighten for long time.
- The determination of when the code is not the same type of remote control to turn around, so as not to impact on the code.

Tip: This product is common to all FUTABA 2.4GHZ S-FHSS remote control.

Note: The transmitter throttle is not at its lowest position, the throttle hold switch and 3D effects switch in the open state, emitting the opportunity to send a warning by bit, Unable to enter the code program.

你购买的是原厂模型,在出厂时已经对码完成,如果需要从新对码,请按下一步骤操作。

- 1. 先将遥控器打开,确认油门摇杆在最下面位置,3D/IDLE开关OFF位置
- 2. 取下机壳,方便接触到对码开关。
- 3. 给飞机上电,红灯慢闪,按对码按键1秒,红灯熄灭,进入对码绑定状态。

- 4. 红灯蓝灯长亮,对码完成。
- 5. 对码时确定周围没有相同型号遥控器打开,以免影响对码。

提示:该产品通用所有FUTABA 2.4GHZ S-FHSS谣控器。

注意:发射机油门没在最下位置,油门保持开关及3D特技开关在打开状态,发射机会发出滴滴警告,无法进入对码程序。

#### Gyroscope calibration 陀螺仪校准

Aircraft factory has passed the flight testing, gyroscope go awry in individual cases, by calibrating the gyro, makes more stable flight

- 1. Open the remote control, make sure the throttle stick at the lowest position, 3D switch is in the OFF position.
- 2. Power to the plane, to be self-test is complete, the lights lit.
- Push the throttle rocker, by the hovering of rocker control, the plane landed.
- 4. Move the throttle stick to the bottom left corner of breaking while breaking into the lower right corner of the lift rocker 3-4 seconds, then flash lights appeared to enter the gyroscope calibration. The lights stay lit after the self-test is complete, you can fly.

出厂时飞机已经通过飞行检测,个别情况下陀螺仪会出现偏差,通过校准陀螺仪,会使飞行更稳定

- 1. 打开遥控器, 确认油门摇杆在最下位置, 3D开关在0FF位置
- 2. 给飞机上电, 待自检完成, 信号灯常亮。
- 3. 将油门摇杆掰到左下角,同时将升降摇杆掰到右下角3-4秒,此时信号灯出现快闪进入陀螺仪校准。
- 4. 待信号灯常亮后自检完成,即可飞行。

#### Notice:

- 1. When the remote control is turned on, the throttle hold switch is in the ON state, and the remote control emits a drip alarm sound. The switch should be turned back to the OFF position.
- When the remote control is turned on, the 3D switch is in the ON state, and the remote control will emit a drip alarm sound. The switch should be turned back to the OFF position.
- When the remote control is turned on, the throttle stick is not in the lowest position, and the remote control will emit a drip alarm. The throttle stick should be pulled down to the lowest position.
- 注意: 1. 开启遥控器时,油门保持开关处于0N状态,遥控器会发出 滴滴报警声,应将开关拨回0FF位置。
  - 2. 开启遥控器时, 3D开关在ON状态, 遥控器会发出滴滴报警声, 应将开关拨回OFF位置。
  - 3. 开启遥控器时,油门摇杆未在最下位置,遥控器会发出 滴滴报警声,应将油门摇杆拉倒最下位置。



# THROTTLE CURVE AND PITCH CURVE SET 油门曲线与螺距曲线设置参照表

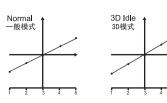
	Position 位置	Normal 一般模式	3D Idle 3D模式
Throttle Curve	1	0	85
油门曲线	2	40	85
	3	50	85
	4	60	85
	5	70	85







螺距曲线	Position 位置	Norma <b>l</b> 一般模式	3D Idle 3D模式
	1	35	30
	2	40	40
	3	50	50
	4	60	60
	5	70	70



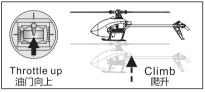
The above information is for your reference only, you can set freely according to your demand 本设定供用户参考,用户可根据个人需求自由设定参数

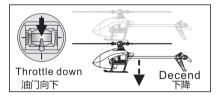
#### FIRST FLIGHT INSTRUCTION 首次飞行指挥

If you are not familiar with the control of the K130, take a few minutes to get familiar with them and then try your first flight.

如果你不熟悉 K130的控制, 花几分钟熟悉它们, 然后尝试你的第一次飞行。

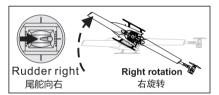
#### Throttle 油门



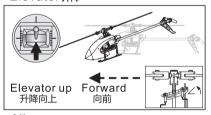


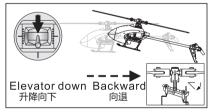
#### Rudder 方向



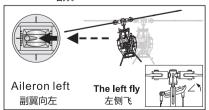


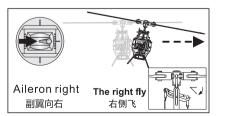
#### Elevator升降



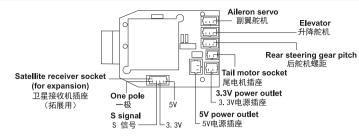


#### Aileron 副翼



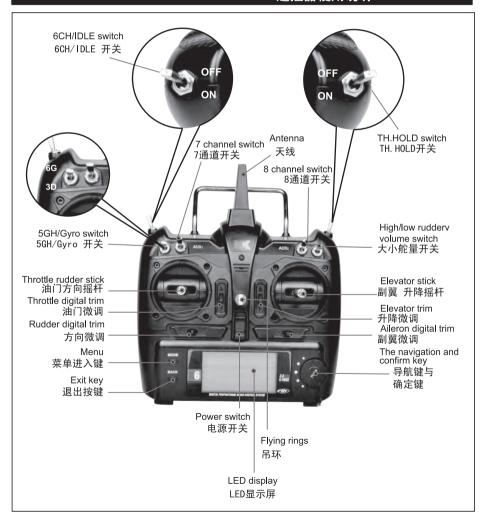


#### RECEIVER INTERFACE DIAGRAM 接收机接口图



Remark: 3.3V is suitable for DSM receiver and 5V is suitable for FUTABA (S-BUS) J receiver. 备注: 3. 3V适合DSM接收机, 5V适用于FUTABA (S-BUS) J接收机。

#### TRANSMITTER INSTRUCTION 遥控器使用说明

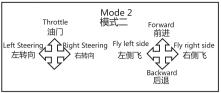


#### Right hand throttle

右手油门

### Left hand throttle 左手油门



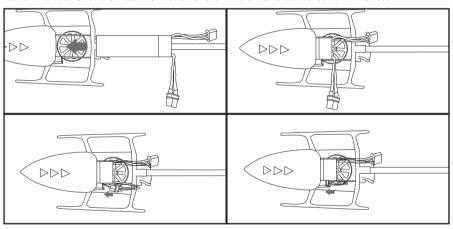


This remote control supports CCPM 120 degree helicopter dedicated remote control, with 3D 6G switching high/low rudder capacity for two joystick modes, flameout switch (TH.HOLD) and other modes, large screen LCD display multi-function remote control.

该款遥控器支持CCPM120度直升机专用遥控器,具有3D 6G切换 大小舵量转换 2 种操纵杆模式,熄火开关(TH. HOLD)等模式,大荧幕LCD显示屏多功能遥控器。

### INSTALLING THE FLIGHT BATTERY 安装飞行电池

- 1. Put the throttle lever to the bottom position.
- 2. Turn on the transmitter.
- 3. Install the battery into the rack and connect it properly with the receiving power.
- 4. After the battery is turned on, the signal light flashes, and the signal is stopped while the signal is still on. The receiver can fly after the self-test is completed.
- 1.将油门拉杆打到最低位。
- 2.打开发射机。
- 3.将电池装入机架内并与接收机电源进行正确连接。
- 4.接通电池后信号灯闪烁,静止平放待信号灯停止闪烁,接收机自检完成,即可飞行。



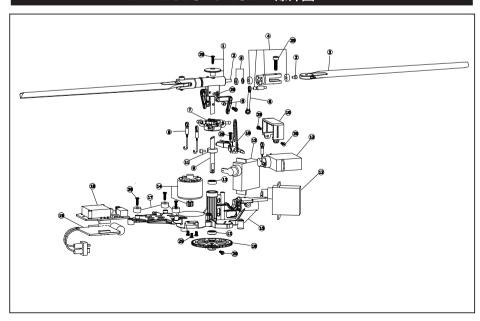
#### TROUBLESHOOTING GUIDE除飞行中的异常

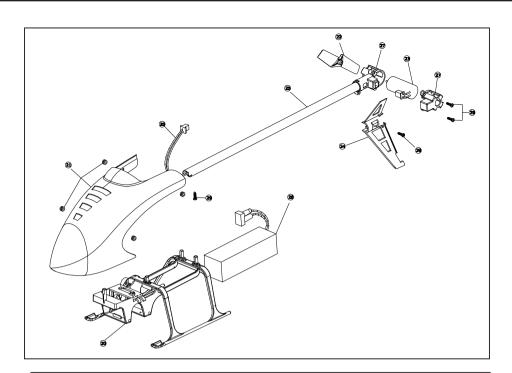
	Problem	Possible Cause	Solution
	状况	原因	对策
1	LED on receiver flashes constantly and operating no function after connecting batteries to transmitter. 电池与接收机连接后,接收机提示灯持续闪烁,操作无反应。	Transmitter is not bound to receiver. 发射机与接收机对码失败。	Bind transmitter to receiver(Refer to P.5, Programming your Transmitter) 请重新执行发射机与接收机对码)(参阅P.5发射机与接收机对码)

	Problem 状况	Possible Cause 原因	Solution 对策
2	The helicopter do not response after connecting batteries to receiver. 电池与接收机连接后,直升机没有 任何反应。	Check whether the transmitter and receiver connecting to power; check the voltage of transmitter and receiver; Battery pole flake contact is not good. 检查发射机与接收机是否接通电源;检查发射机与接收机电池电压;电池极片接触不良。	Open the transmitter, make sure the batteries connecting is good Replace and charge transmitter batteries Make sure the battery pole flake contact is good. 打开发射机,确认电池安装位置; 使用完全充饱电的电池;重新插入 电池,确认电池与电池极片的接触 是否正常。
3	When push the throttle pole, the rotor do not rotate and the LED on Receiver flashes constantly. 推动油门摇杆时,马达不转,且接收机提示灯开始闪烁。	Low battery voltage; batteries connection is not good. 直升机电池电压不足;电池插头与接 收机插座接触不良。	Replace and charge the batteries, reconnect the batteries to the receiver board. 将电池充电或更换一个充饱电的电池;重新连接电池与接收机。
4	Helicopter takes off immediately, once the batteries and receiver connected. 电池与接收机连接,对码成功后,直升机马上起飞。	Didn't put the throttle to the lowest 打开发射机前,油门摇杆没有置于最下方。	Put the throttle pole at the lowest position before open the transmitter. 打开发射机前,将油门摇杆置于最 下方。
5	Turn on the helicopter after binding successfully, the propeller rotate constantly but the helicopter can not take off. 对码成功后,起动直升机,主桨有持续转动,但不能飞。	Low charge in aircraft batteries or main gear loose.  直升机电池电压不足主轴齿轮松开。	Replace and charge the batteries; press the spindle with gear tightly.  将电池充电或更换一个充饱的电池,将主轴与齿轮压紧。
6	Helicopter vibrates or shakes in flight.  直升机震动的很厉害。	Damaged rotor blades and lateral axis blade grips too tight causing the movement of the main rotor isn't smooth.  主來变形 横轴弯曲,尾桨变形,桨夹螺丝锁大紧,导致主桨不动。	Change the main rotor blades, and lateral axis Loosen the blade grips properly. 更换主桨, 更换主轴, 更换尾桨, 将桨夹螺丝适当拧松。
7	Main rotor blades are shaking in flying.	Lateral axis is bent Latreral axis screw is not tight. There are some debris in the servo, causing shakes. The loose between the swashplates. Deformed or damaged t ail rotor blades. 横轴弯曲.横轴螺丝没锁紧紧夹轴承 磨损舵机有杂物进入导致抖动上斜	Replace the lateral axis. Tighten the lateral axis screw. Change the Bearing. Remove the servo, and clear debris. Compress the swash plates. change the tail rotor blades. 更換橫軸,锁紧橫轴螺丝并运动顺畅, 更换轴承,取下舵机,清除舵机杂物,
8	The sound of the main rotor becomes smaller. 直升机主桨声音变小。	盘与下斜盘松动尾桨变形或破损。  Low battery voltage of helicopter.  直升机电池电压不足。	压紧上斜盘与下斜盘更换尾桨。  Charge the battery or change a fully charged battery. 将电池充电或更换一个充饱电的电池。

	Problem 状况	Possible Cause 原因	Solution 对策
9	Helicopter has no reaction or can not fly smoothly.  直升机无任何反应或不能平稳飞行。	Failure of binding 信号绑定失败。	Rebind the helicopter and transmitter, make sure you place the helicopter static level next to the transmitter. 重新绑定,绑定时小直升机需水平放置。
10	3D/6G model helicopter appeared yaw 直升机3D/6G模式下都出现偏航	Swashplate servos not g yrus or damage 十字盘没回中或者舵机损坏	Length adjustment rod, so thatthe vertical spindle swashplate Replace the servo 调整连杆的长度,使十字盘与主轴垂直 更换舵机
11	Helicopter yaw occurs in 6G mode, 直升机在6G模式下出现偏航,	Helicopters hover need to reconfigure 直升机悬停需要重新设定	Reference helicopter 6G mode setting 参考直升机60模式设定
12	Helicopter took off spin to the left.  直升机起飞向左打转。	Tail motor power shortage loose blades Tail motor damage  尾马达力量不足 桨叶松动 尾马达损坏	Check with the tail rotor blades and the motor shaft, If loose replacement tail rotor blade. Motor damage Replace the tail motor. 检查尾桨叶与马达轴的配合,如果松动更换尾桨叶。马达损坏更换尾马达.
13	Helicopter power is turned supreme speed governor electric sound 直升机接通电源调速器无上电音	Brushless speed governor fault or poor contact 无刷调速器故障或接触不良	Check the connectors replace speed governor 检查接头 更换调速器

### EXPLODING VIEW 爆炸图





## PARTS LIST 零件清单

NO	PARA NAME	零件名称	QUANTITY
1	Horizontal set	横轴组	1
2	Wing set	旋翼组	2
3	Main shaft	主轴组	1
4	Steering plate set	舵机压板组	1
5	Motor set	马达组	1
6	servo	舵机组	1
7	Base set	机座组	1
8	Gearset	齿轮组	1
9	Receiving unit	接收机组	1
10	Battery	电池组	1
11	Housing set	机壳组	1
12	Landing gear set	起落架组	1
13	Tail turbines	尾电机组	1
14	Tail rotor group	尾桨组	1
15	Screws	螺丝组	14
16	Rubber ring set	橡胶圈组	4
17	Connecting rod set	连杆组	5
18	Bearing set	轴承组	2

19	Limit seat	限位座组	1
20	Metal clip wing group	金属旋翼夹组	2
21	Metal swashplate set	金属十字盘组	1
22	Metal rotor head set	金属旋翼头组	1
23	Tail bar set	尾杆组	1
24	Tail turbines	尾电机组	1
25	Oma Da frame group	尾马达架组	1
26	Tail motor frame set	尾翼组	1
27	The wires	尾电机连接线组	1
28	Metal upgrades	金属升级件	1
29	Remote control	遥控器组	1
30	Gearset	齿轮组	1

#### Notice for beginners:

- 1. Pls fly you models with guidance in the first time.
- 2, Before fly the models, you need to understand all the function of the transmitter and reaction cause by the rockers,
- 3. Don't use 3D mode hurried. Practice flying and hovering flight under 6G mode until you familiar are with it. Then you can practice flying and hovering flight under 3D mode. When you are familiar with these two mode, you can practice inverted flight with guidance.
- 4. Practice hovering flight of inverted flight to lay a foundation for making more brilliant flying.
- 5. This model is not a toy. For reducing unnecessary damage, pls take a simulated flight by compute before 3D flying. 新手飞行注意事项
- 1: 第一次接触模型直升机的请在有经验的指导下飞行。
- 2: 新手飞行要在地面全部了解遥控器的功能后及摇动摇杆飞机出现的反应,充分了解后才能飞行。
- 3 不能急与3D动作飞行,要循序渐进现在6G模式下把飞机正飞四面悬停练习,要熟练掌握后再进行 3D正飞四面悬停,两种模式都熟练掌握后在有经验人指导下进行倒飞练习。
- 4 倒飞仍要进行四面悬停练习,为你以后能做更漂亮的动作打基础。
- 5 6通模型飞机不是玩具,为减少不必要的损坏,请你在进入3D练习时,可以先在电脑模拟器内进行练习,熟练掌握后再实际飞行。

#### Accessories list 配件列表

Part No: XK.2.K130.001 Part Name: Horizontal set 零件编号: XK.2.K130.001 零件名称: 横轴组	Part No: XK.2.K130.002 Part Name: Wing set 零件编号: XK.2.K130.002 零件名称: 旋翼组	Part No: XK.2.K130.003 Part Name: Main shaft 零件编号: XK.2.K130.003 零件名称: 主轴组	Part No: XK.2.K130.004 Part Name: Steering plate set 零件编号: XK.2.K130.004 零件名称: 舵机压板组
1 4 4	MATERIAL MAT	•	*
Part No: XK.2.K130.005 Part Name: Motor set 零件编号: XK.2.K130.005 零件名称: 马达组	Part No: XK.2.K130.006 Part Name: servo 零件编号: XK.2.K130.006 零件名称: 舵机组	Part No: XK.2.K130.007 Part Name: Base set 零件编号: XK.2.K130.007 零件名称: 机座组	Part No: XK.2.K130.008 Part Name: Gearset 零件编号: XK.2.K130.008 零件名称: 齿轮组
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