

2.4GHz 3-Mode 4-Channel Electric RC Helicopter 2.4G 3模式 4通道遥控电动直升飞机

- 1. Check if there are loose screw or damaged parts. Stop flying if exist defects and replace the broken parts.
- 2. Clean the helicopter carefully after flying.
- 3. Ensure all part have no defects for safety flight.
- 4. Helicopter should be put in dry and shady place and be far away from heat and avoid sunshine.
- 1. 每次飞行前需要详细检查是否有松弛或损毁的零件。若有,必须立即终止飞行,锁紧松脱的零件,以及更换损坏的零件。
- 2. 飞行后请妥善清洁机体上的灰尘。
- 3. 为了安全的飞行,请确认所有的可动零件均可顺畅动作。
- 4. 将模型飞机存放在干燥、阴凉的地方、避免阳光直晒、远离热源。

NO.JJ-H21



Adjust the trim if the flying unit moves forward/reverse or left/right without operation of the stick. Adjust the trim by using the trim lever on the transmitter.

如果飞机正未经操作地向某个方向移动,通过发射机上的微调按钮可以修正

Operation 操作	Unit movement 移动方向	MODE1 Japanese mode日本模式	MODE2 Chinese mode中国模式	MODE3 American mode美国模式
Throttle trim 油门 微调	類果在油门处于最低位置。 下机切不必要的向上升。 油门满整赋向下枝。 (商那中的黑色箭头) And vice versa counter 反之刻反 「特性 throttle at the lowes position, flying unit makes an unwanted move up, move the throttle trim lever down. (The black arrow in the drawing)			
Aileron trim 副翼 微调	加果飞机不必要的 向连侧移、则黄讯 繋杆向右肢。 (图形中的黑色箭头)		٥٠٥	
Elevator trim 升降舵 微调	原来で机不必要的 向前移动、升降枪 調整杆向下投。 (图形中的黑色箭头) And vice versa counter 反之既反		(Ö.HÖ)	
Rudder trim 方向能 微调	如果飞机不必要的 向左旋转。方向症 读整杆向右接。 (图影中的黑色箭头) And vice versa counter 反之风反			

C€2150



Thank you for your purchase of our product. In order to fly your helicopter more easily and conveniently, we kindly recommend you to read carefully the whole user handbook and keep it in a safe way as a reference book for maintenance and adjustment in the future.

感谢您购买我们的产品。为了让您的直升机飞行得更容易和更方便,我们诚恳地建议您仔细阅读整个用户手册,并把它放置在一个安全的地方,作为今后维修和调整的参考书。

- This is not a toy. It is a complex combination of electronics, mechanics, and aerodynamics.
 It requires proper setup and fine adjustment to avoid accident. We accept no liability for damage and consequent damage arising from the use of the products, because we have no control over the way they are installed, used, and operated.
- When charging the battery, do not overcharge. Overcharging may result in fire or explosion.When the battery is hot during charging, please stop charging at once. Use specified charger only. Never short circuit! The battery must be properly disposed of.
- 3. Children under 14 years old are strictly forbidden from flying the helicopter.
- 4. When your helicopter is running, any causes which stop the rotor blades spinning or make collision will result in serious damage or burning. Please immediately turn down the throttle stick at the lowest position!

2 警告Warning

- 这不是玩具。它是一个集电子学、机械学和航空动力学的复杂综合体。它需要 正确的设置和精密调整来避免事故。对于产品的使用,我们不承担任何损害和 由此产生的损害赔偿责任。因为我们不能掌控他们组装、使用、损作的方法。
- 当电池充电时,请不要过度充电。过度充电可能会导致火灾或者爆炸。当电池 在充电时发烫,请立即停止充电。仅使用指定的充电器。请勿短路:电池必须妥善处置。
- 3.14岁以下儿童严格禁止飞行直升飞机。
- 当你的直升飞机正在飞行。任何原因停止旋转中的旋转翼或者造成碰撞将会 导致严重的损坏或烧毁。请立即关小油门并保持在最低位置。

3 注意事项

- 因为直升飞机是由无线电控制操作,重要的是要确保你总是使用新的或者完全 充电的电池。切勿使用快用完的电池要不然你的直升飞机可能会失去控制。
- 2. 不允许任何电器元件受潮, 否则可能会发生电器损坏。
- 3. 你应该在每次飞行前完成对无线电设备有效范围内的检查。
- 4. 如果直升机变脏,不用任何溶剂来清洁它。溶剂会损坏塑料和复合材料部件。
- 5. 请总是在打开逼控器之前装上飞行电池,在关掉遥控器之前拨出飞行电池。
- 6. 请勿在飞行过程中缩短接收天线,否则你将失去对直升机的控制。
- 7. 当直升机在飞行时,请确保遥控器的天线是完全扩展的,并朝向天空,而不是朝向到地面。

- Because the helicopter is operated by radio control, it is important to make sure you are always
 using fresh and/ or fully charged batteries. Never allow the batteries to run low or you could lose
 control of the helicopter.
- 2. Do not allow any of the electrical components to get wet. Otherwise electrical damage may occur.
- You should complete a successful range check of your radio equipment prior to each new day of flying.
- If the helicopter gets dirty, don't use any solvents to clean it. Solvents will damage the plastic and composite parts.
- Always turn on the transmitter before plugging in the flight battery and always unplug the flight battery before turning off the transmitter.
- 5. Never cut the receiver antenna shorter or you could lose control of the helicopter during flight.
- When flying the helicopter, please make sure that the transmitter antenna is completely extended and is pointed up toward the sky, not down toward the ground.

12 操纵方法 Special prompt

Thoroughly learn helicopter movement and stick operation from the following table. 正式操作前从下表中彻底了解操纵直升机的操作方法。

Operation 操作	Unit movement 移动方向	MODE1 Japanese mode日本模式	MODE2 Chinese mode中国模式	MODE3 American mode美国模式
Throttle 油门	● Up (Throttle: High) 油门杆向上推 飞机起飞上升 Before taking off, the throttle must be in the lowest position. Down (Throttle: Low) 飞机下降着陆			
Aileron 副翼	Left movement (Aileron: Left) 副翼杆向左推 飞机向左侧移			
Elevator 升降舵	Forward (Elevator: Up) 升降舱向上推 飞机向前进			
Rudder 方向舵	Left rotation (Rudder: Left) 方向舱向左推 飞机向左转向			

机身长:

Overall Length: 415mm

机身高:

fuselage height: 190mm

机身宽:

fuselage width: 80mm

主旋翼直径:

发射机:

总重量:

Main Rotor Dia.: 450 mm

Transmitter: 4 CH

All-up weight:355g(Battery included)

电池规格: 850mAh / 7.4V大功率充电锂电池

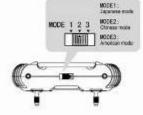
Battery: 850mAh / 7.4V Lithium battery

接收装置: 三合一 接收机(接收机,速度控制器,陀螺仪) Reciever:3-in-1 receiver (receiver, speed controller, gyro)

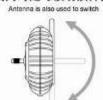
舵机:重量8.5克/速度 0.11 sec/60° (4.8V)/扭力 0.9kg/cm(4.8V)/尺寸 22.5×11.5×24mm Servo: weight 8.5g/speed 0.11 sec/60°(4.8V)/ torque 0.9kg/cm(4.8V)/dimension 22.5×11.5×24mm

Transmitter features 发射机的特点

特别设计的3种操作模式



天线同时是习惯切换开关



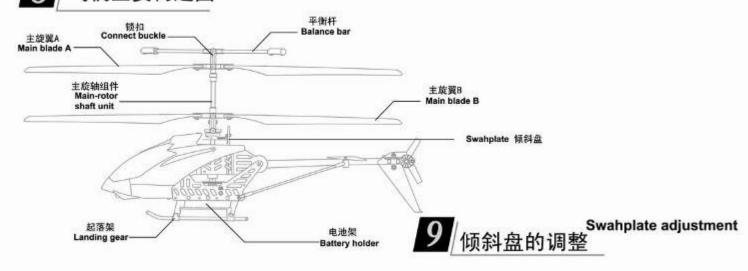
5 部件 Included parts

Charger

电池充电器



Main structure drawing for helicopter 飞机主要构造图



- Inspection of Swashplate: Turn on the transmitter switch, move the throttle stick and throttle trim of transmitter to the lowest position, and move the elevator trim and aileron trim at the neutral position. Inspect whether the swashplate is horizontal.
- 2. Adjustment of Swashplate: if the swashplate is not horizontal, you can adjust through the following steps:(1). Elevator and alleron adjustment. Loosen the steering engine belicrank screws and the steering engine belicrank screws, then reconnect the power of the helicopter. Adjust the steering engine linkage rod and belicrank to 90° angel after the reposition of the elevate and alleron. And then tighten the screw. (2). Adjust the length of the steering engine linkage rod to make the swashplate horizontal.
- 類斜盘检查: 打开選控器电源开关, 将油门摇杆及油门微调调拨到最低位置, 将升降舱锁调, 副翼微调到中间位置, 检查倾斜盘是否处于水平。
- 2. 倾斜盘调节:如果倾斜盘不是处于水平位置。可以通过以下方法调节: (1). 升降舵机及

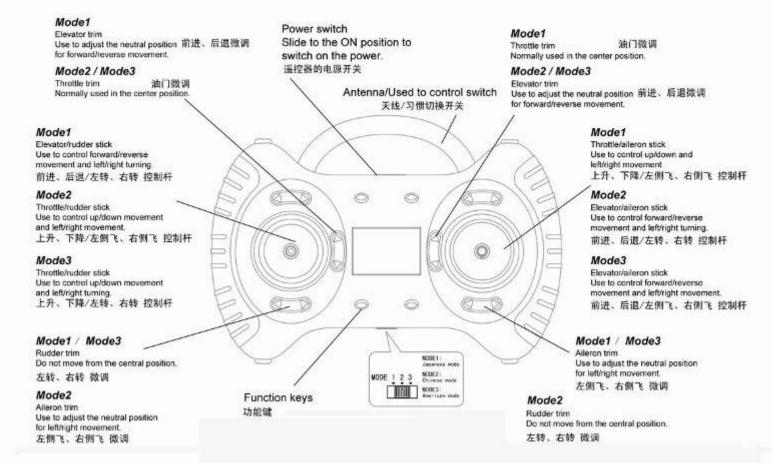


2.4G Transmitter 遥控器

副翼舵机调节。先拧松舵机摆臂螺钉,松开舵 机摆臂,重新连接飞机电源,待升降舵机,副 翼舵机复位后,调节舵机连接杆和舵机摆臂至 90°夹角,再锁紧舵机摆臂螺钉。

(2).调节舵机连接杆的长度至倾斜盘水平。

Part name of the transmitter 遥控器部件名和





Plug the charger in the power supply socket, and insert the charger connector into the charging wire of the lithium battery. The charging time is normally 100-180 minutes or so. The helicopter can be used 5 minutes after charging is completed. Do not overcharge your helicopter. Failure to do so will damage the battery, even lead to fire and explosion.

Attention:

- 1. Make sure the voltage and connector plug of adapter tally with the local charging standard.
- 2. Player should stand aside as the plane in the process of charging.
- 3. The battery pack would become very hot when the plane finishes flying, please wait at least 30 minutes for continuous charging in order to protect the battery pack.



4. Do not throw the battery pack into fire to avoid explosion.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 nterference 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.

Before the flight of the environment 飞行前的环境

- 1. Fly on a sunny day without wind.
- 2. Do not fly in extreme temperature. Do not fly in strong wind.
- 3. Choose in the wide indoor flight, and make sure that no obstructions pets and people nearby.

