

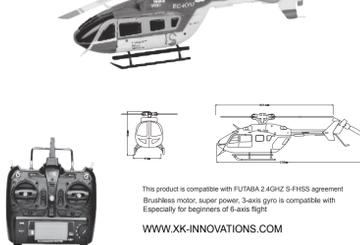


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K124

INSTRUCTION MANUAL



This product is compatible with FUTABA 2.4GHZ S-FHSS agreement
Brushless motor, super power, 3-axis gyro is compatible with
Especially for beginners of 6-axis flight

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SPECIFICATION



PACKAGING LIST

NO	PART NAME	QUANTITY
1	Gift box	1
2	PVC base	1
3	PVC cover	1
4	Instructions	1
5	Helicopters	1
6	Transmitter	1
7	USB cable	1
8	XC-1S2 charger	1
9	Battery	1
10	Phillips screwdriver	1
11	1.5 hex wrench	1
12	Main blade	1 Set
13	Tail	1
14	Gear	1

Part No: XK-2.K124.008 Part Name: Main frame set	Part No: XK-2.K124.013 Part Name: Battery pack	Part No: XK-2.K110.003 Part Name: Rotors/governor	Part No: XK-2.K124.009 Part Name: Landing gear group
Part No: XK-2.K123.017 Part Name: Gear	Part No: XK-2.K124.014 Part Name: Head group	Part No: XK-2.K124.017 Part Name: After the housing group	Part No: XK-2.K124.018 Part Name: Tail motor group
Part No: XK-2.K124.019 Part Name: Tail group	Part No: XK-2.K124.020 Part Name: Rotor clip set 2	Part No: XK-2.K124.021 Part Name: Linkage	Part No: XK-2.K124.022 Part Name: Link axle group
Part No: XK-2.K124.023 Part Name: Head clip wing group	Part No: XK-2.K124.024 Part Name: Head swashplate group	Part No: XK-2.K124.025 Part Name: Headlights	Part No: XK-2.K124.026 Part Name: Tail rotor axle group
Part No: XK-2.K124.027 Part Name: Receiver control group	Part No: XK-2.K124.028 Part Name: Charging plug		

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NOTICE

- 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 site.

WARNING

- 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.

ADDITIONAL SAFETY PRECAUTIONS AND WARNINGS

- Age Recommendation: Not for children under 14 years. This is not a toy.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and various electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Complete the binding of the model in your mouth as it could cause serious injury or even death.
- With low voltage of transmitter batteries.

ACCESSORIES LIST

Part No: XK-2.K124.001 Part Name: Rotor head group	Part No: XK-2.K124.002 Part Name: Horizontal group	Part No: XK-2.K124.003 Part Name: Bearing group	Part No: XK-2.K124.004 Part Name: Spline
Part No: XK-2.K124.005 Part Name: Rotor group	Part No: XK-2.K124.006 Part Name: Rotor clip set	Part No: XK-2.K123.007 Part Name: Spline group	Part No: XK-2.K124.007 Part Name: Swashplate
Part No: XK-2.K123.009 Part Name: Limit seat	Part No: XK-2.K123.010 Part Name: Linkage	Part No: XK-2.K120.011 Part Name: Servo stent group	
Part No: XK-2.K120.012 Part Name: Bearing group 2	Part No: XK-2.K124.012 Part Name: Motor group	Part No: XK-2.K124.011 Part Name: Receiver unit	Part No: XK-2.K124.010 Part Name: Receiver seat

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INTRODUCTION

- This is a super classic helicopter with excellent flight performance. Flybarless design, decrease resistance of rotor head. Quoted 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 faded, this is an incomparable and popularization helicopter. Beginners will find it is easy 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.

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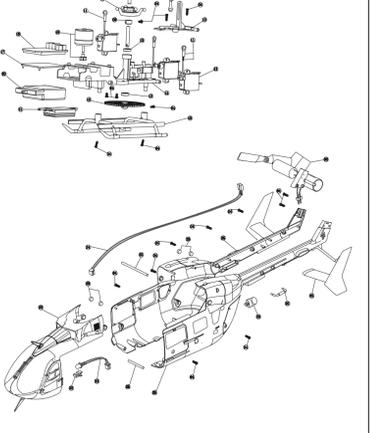
PARTS LIST

NO	PARA NAME	QUANTITY
1	Rotor head group	1
2	Horizontal group	4
3	Bearing group	2
4	Screws	26
5	Rotor group	4
6	Rotor clip set 1	4
7	Spindle group	1
8	Swashplate	1
9	Limit seat	1
10	Servo stent group	1
11	Linkage	3
12	Rudder unit	1
13	Bearing group 2	2
14	Main frame set	1
15	Gear	1
16	Landing gear group	1
17	Receiver unit	1
18	Motor group	1
20	Battery pack	1
21	Governor group	1
22	Head group	1
23	Headlights	1
24	Tail motor cable group	1
25	After the housing group	1
26	Tail motor group	1

- Note notice flight
- Please first contact with model helicopters under the guidance of an experienced flight.
 - Novice flight should all understand the function of the remote control on the ground and shake the joystick response after the aircraft appeared to flight after fully understood.
 - Do not be anxious and 3D action flight, should be gradual and is now under the 6G model is flying the plane surrounded by hovering practice to master and then perform.
 - Do fly to how after both modes added the modes under the guidance of experienced inverted exercises. 4 inverted will be surrounded by hovering exercises you can do even more beautiful action after laying the foundation.
 - 6 G through model aircraft not a toy to reduce unnecessary damage, when you enter the 3D exercises, you can first enter in the computer simulator Line exercises, proficiency before actual flight.

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EXPLODED VIEW



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HELICOPTER PARAMETERS

Length	250 mm
Height	80 mm
Weight	85 g
Propeller length	250 mm
Tail rotor blade diameter	57 mm
Battery specification	3.7V 700mah 20c
Flight time	5-7 min
Main motor brushless	110G
Tail motor	8520

WARNING AND THE GUIDE OF USING BATTERY

- CAUTION:** Always use a proper Li-Po battery.
- WARNING:** Always charge your battery in a safe place.
- WARNING:** Never leave charging batteries unattended.
- WARNING:** Never charge batteries in a flammable or explosive environment.
- WARNING:** Never alter Batteries.
- WARNING:** Never touch or use hot Batteries.

The battery charger included with the K124 has been designed to safely charge the Li-Po battery.

- CAUTION:** All instructions and warnings must be followed exactly. Mishandling of Li-Po batteries can result in a fire, personal injury, and/or property damage.
- Can result in a fire, personal injury and property damage.
 - By handling, charging or using the included Li-Po battery you assume all risks associated with lithium batteries.
 - If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
 - Always store the battery under normal temperature in a dry area for best results.
 - Always transport or temporarily store the battery in a temperature range of 40-120° F. Do not store battery or model in a car or direct sunlight. If stored in a hot car, the battery can be damaged or even catch fire.
 - Never use a Ni-CD or Ni-MH charger. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage.
 - Never exceed the recommended charge rate.
 - Never cover warning labels with tape and tape strips.

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WARNING: Only use the charge supplied by our company, or it would cause damage.

Notice: When a Li-Po battery is discharged below 3.7V, the battery may be damaged and may no longer accept a charge. Please land the helicopter immediately and recharge the flight battery.

BATTERY CHARGING

1-cell 3.7V Variable Rate DC Li-Po Charger

Description:

- Use standard charger and USB power cord to connect, and then connect to the computer.
- The red lamp will flash after connecting to computer.
- The red lamp will brighter when charging, it will go out when complete charging.
- The charger can charge two batteries at the same time.



Notice: Use only factory supplied charger. Never attempt to power the charger from an AC outlet without the use of a proper AC to DC adapter/power supply.

FIRST FLIGHT PREPARATION CAUTION

- 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 with 3D mode in back position (back cover direction)
- Make sure the TX is binding and helicopter, or please rebind them.
- Please open TX first, then connect the battery with the RX based on helicopter to bind with TX. When close, please cut the power of helicopter first, and then turn off the TX.
- Keep away from crowd, cars, high-tension towers and pond. Then you can start your flying.

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Problem Possible Cause Solution

7	Main rotor blades are shaking in flying.	Lateral axis is bent Lateral axis screw is not tight. There are some debris in the servo, causing the servo to lose the connection between the swashplates. Deformed or damaged tail rotor blades.	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.
8	The sound of the main rotor becomes smaller.	Low battery voltage of helicopter.	Charge a fully charged battery.
9	Helicopter has no reaction or can not fly smoothly.	Failure of binding	Rebind the helicopter and transmitter, make sure you place the helicopter static level next to the transmitter.
10	3D/6G model helicopter appeared yaw	Swashplate servos not g yrus or damage	Length adjustment rod, so that the vertical spindle is parallel. Replace the servo
11	Helicopter yaw occurs in 6G mode.	Helicopters hover need to reconfigure	Reference helicopter 6G mode setting
12	Helicopter took off spin to the left.	Tail motor power shortage loose blades Tail motor damage	Check with the tail rotor blades and the motor shaft. If loose replacement tail rotor blades. Motor damage Replace the tail motor.
13	Helicopter speed is turned supreme power governor electric sound.	Brushless speed governor fail or poor contact	Check the connectors replace speed governor

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TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
1	LED on receiver flashes constantly and operating no function after connecting batteries to transmitter.	Transmitter is not bound to receiver. Bind transmitter to receiver (Refer to P.6, Programming your Transmitter)
2	The helicopter do not response after connecting batteries to receiver.	Check whether the transmitter and receiver connecting to power; check the voltage of transmitter and receiver; Battery pole fake contact is not good.
3	When push the throttle pole, the rotor do not rotate and the LED on Receiver flashes constantly.	Low battery voltage; batteries connection is not good.
4	Helicopter takes off immediately, once the batteries and receiver connected.	Didn't put the throttle to the lowest.
5	Turn on the helicopter after binding successfully, the propeller rotate constantly but the helicopter can not take off.	Low charge in aircraft batteries or main gear loose.
6	Helicopter vibrates or shakes in flight.	Damaged rotor blades and lateral axis blade grips too tight causing the moment of the main rotor isn't smooth.

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BINDING TX AND RX

You buy the original model, the factory has been completed on the code, if you need to re-code press on steps.

- First open the remote control, make sure the throttle stick in the bottom position, 3D IDLE switch in the OFF position
- Take down the canopy for touching the code switch.
- Charge the helicopter, the red lamp flashes slowly, press the code button for 1 seconds, then the red lamp go out and into a state of binding of code.
- Complete the binding of code when red and blue lamp are brighter 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.

6G aircraft hovering mode settings
When you buy products factory has been set up, if the aircraft in hover flight or not well, then you can use the following steps to set.
The helicopter has been set up on factory, if it can't hover in flight, pls follow these steps to set.
1. Open the TX, make sure that the gyro(DIG) switch is on 6G OFF position.
2. Push the position of the FUTABA TX switch by yourself.
3. Charge the helicopter, set the throttle rocker and hitting rocker to bottom after the gyro finish self-checking. Then, red lamp of TX will flash slowly and into 6G hover flight debugging mode.
3. Push throttle rocker to flying, control the rocker to hovering and landing.
4. Place the throttle stick and lift rocker at the lowest position for 3 seconds to save the data. After the long flight to bright lights.



Gyroscope calibration
Aircraft factory has passed the flight testing, gyroscope go away 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-set is complete, the lights lit.
3. Push the throttle rocker, by the hovering of remote 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-set is complete, you can fly.



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THROTTLE CURVE AND PITCH CURVE SET

Throttle Curve	Position	Normal	3D Idle
1	1	0	100
2	2	40	100
3	3	80	100
4	4	80	100
5	5	100	100

Pitch Curve	Position	Normal	3D Idle
1	1	40	20
2	2	40	38
3	3	40	55
4	4	62	65
5	5	75	75

The above information is for your reference only, you can set freely according to your demand

GYRO PARAMETER SETTING AND 3D/6G FLIGHT TRANSFORM

For convenience of user operation, reduce the setting steps, through 5 channel switch to set value, then cut 3D locked mode and 6G pose mode.

For example:
1. Gyro switch button up, becoming 6G pose mode when the gyro setting value is between 10-100.
2. Gyro switch button down, becoming 3D locked mode when the gyro setting value is between 0-30.

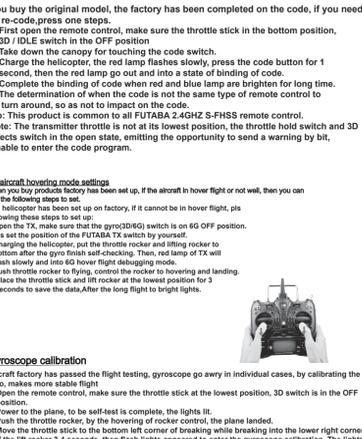
Notice:
1. The RTF products have already set 3D and 6G switch mode, does not support gyro switch change.
2. If the user need to transform the position of 3D and 6G switch, referring to 3G instruction manual into the gyroscope parameters settings and according to your own needs to set value of the switch position.
3. Using FUTABA original remote controller, please first set 5 channel gyro switch in accordance with the manual, then according to remote controller to set value of 3D locked mode and 6G in accordance with the manual, then according to remote controller to set value of 3D locked mode and 6G in accordance with the manual.



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FIRST FLIGHT INSTRUCTION

If you are not familiar with the controls of your K124, take a few minutes to familiarize yourself with them before attempting your first flight.

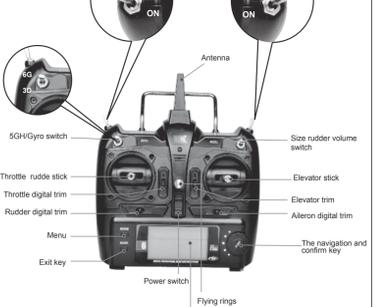


RECEIVER INTERFACE DIAGRAM



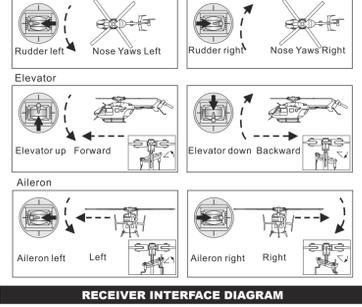
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TRANSMITTER INSTRUCTION



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FIRST FLIGHT INSTRUCTION



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