

"Sky Tango"

Radio Control Helicopter

RTF Instruction Manual

Suitable age :For 14 years and above

ITEM NO.A028

**Right-Hand
Mode**



2.4GHZ

Sky
Tango

Note: Attempting to fly the helicopter without completely reading the manual may cause injury to yourself and people in the vicinity, as well as damage to the helicopter.

Specifications

Length:	7.9 in (200mm)
Height:	4.7 in (120mm)
Main Rotor Diameter:	7.5 in (190mm)
Weight :	0.95 oz (26.5 g)
Motor :	DC coreless motor
Battery :	130mAh 3.7V Li-Po battery

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FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

Troubleshooting Guide

Please refer to below list to resolve the possible problems during flying .

	Problem	Possible cause	Solution
01	Helicopter is out of control	● Lithium battery is low	Fully charge the battery
		● Protection system is not closed	Close the protection system
		● Frequency is skipping	Reset the frequency
02	Left and right hand stick function can not switch	● Mode switch is not on the right position	Push the mode switch to "1" position
03	The fly can not last long enough	● The lithium battery is low	Fully charge the lithium battery
		● The controller battery is charged many times	Replace the controller battery
		● The lithium battery is damaged	Replace lithium battery
04	Can not fly after crash	● Balance weight is lost	Replace balance bar set
05	Can not keep stable by adjusting after crash	● Related parts were damaged or displaced	Contact dealer and buy new parts

※Match Frequency

- 1.Plug the lithium battery into the helicopter (the LCD on the circuit board is blinking rapidly)
- 2.Push any button on the controller and power on .Release the button ,the circuit board LCD is blinking slowly and the controller power indicator is blinking as well.
- 3.Push the left hand throttle stick from the top all the way to the bottom, the controller beeps two times(power indicator stops blinking). The circuit board red LED stops blinking , showing frequency match is done .
- 4.If transmitter keeps beeping , showing the frequency match is failed .Please rematch the frequency from the top .

☐Collision Protection

This model is designed with collision protection function on the balance bar set . If the helicopter is crashed , the balance bar set will fall off the plane . To repair , all you need to do is assemble the balance bar set into the blade head and get linked .

Other notice and precautions

- 1.When the battery is running low(the red LED on the circuit board starts blinking)please stop flying immediately .
- 2.Pull out the lithium battery after each flight is finished .
- 3.When the helicopter is going down by crash ,please push down the throttle immediately in case of any damage occur
- 4.After charging many times , the controller battery is running lower and lower , the charging time will last longer .
- 5.If controller power indicator is blinking and beeping continuously, showing that the 4 AA battery inside the controller is running out ,please replace all with new batteries immediately .
- 6.When unused in long-term , please charger the lithium battery to 50% before storing .All batteries inside the controller also should be taken out .
- 7.If related parts of the helicopter is damaged , please contact the dealer by referring to the "Parts list " and replace with new parts .

Introduction

"Tango" 2.4Ghz Remote Control Helicopter has superb flying performance. Both professional and new beginners can grasp the basic flying technique very well in a short time and do some little nice stunts.

The compact size enables "Tango" to fly in any interior space like office, bedroom ,living roometc. The application of 2.4Ghz Technology provides flyers with extra superior stability and operational ability than other products of the same kind in the market .

"Tango" comes from the factory completely assembled and flight tested and adjusted with everything you need to get flying . No need to re-assemble and set up , all you have to do is charge the battery and out it into the helicopter and fly !

Precautions and warnings

Please perform this model by following the warnings very closely

- **This is not a toy! Misuse may cause bodily harm and damage to property .**
- **Suitable ages for 14 years and over,Kids should have adult supervision when fly it.**
- **Users shall strictly follow the instructions when performing .**
- **Only can fly outdoors when little wind.**
- **prohibit any part of the body to touch the propeller while rotating.**
- **Prohibit flying near the head in order to avoid danger**
- **Charge and preserve in strict accordance with the lithium battery usage standard.**

Note on Lithium Polymer

This is the safty precautions and must be strictly followed.

★ **Lithium Polymer batteries are significantly more volatile than alkaline or Ni-Cd/Ni-MH batteries generally used in RC applications, which may have better advantages in weight and capacity but not stable enough. All manufacturer's instructions and warnings must be followed closely. By handling, charging or using the included Li-Po battery, you assume all risks associated with lithium batteries. If you do not agree with these conditions, return the complete package of model in unused condition to the place of purchase immediately.**

- Do not charge package- attached battery with mismatched transmitter or charger !
- Do not charge other batteries with package-attached transmitter or charger
- Never charge near or in the area of any flammable or combustible materials
- When charging the battery you should always remain in constant observation to monitor the charging process and react to potential problems that may occur.
- If at any time during the charge or discharge process the battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe it for at least 15 minutes.
- Do not continue charging a battery that has begun to balloon or swell .Handle the lithium battery safely. After flight, the Li-Po batteries must be cooled to the ambient temperature before charging.
- Do not over-discharge the Li-Po flight battery. Discharging the battery too low can cause damage to the battery resulting in reduced power, duration or failure of the battery entirely
- Please store the battery in cool ,dry places under 25 degrees Celsius when you are not using it .

Checklist

Please contact the dealer timely when you found any parts missing .

Articles

Articles	Quantity
● Tango Helicopter(complete).....	1
● 2.4Ghz Remote Controller	1
● 3.7V 130mAh Lithium battery.....	1
● AA Battery.....	4
● Screw driver.....	1

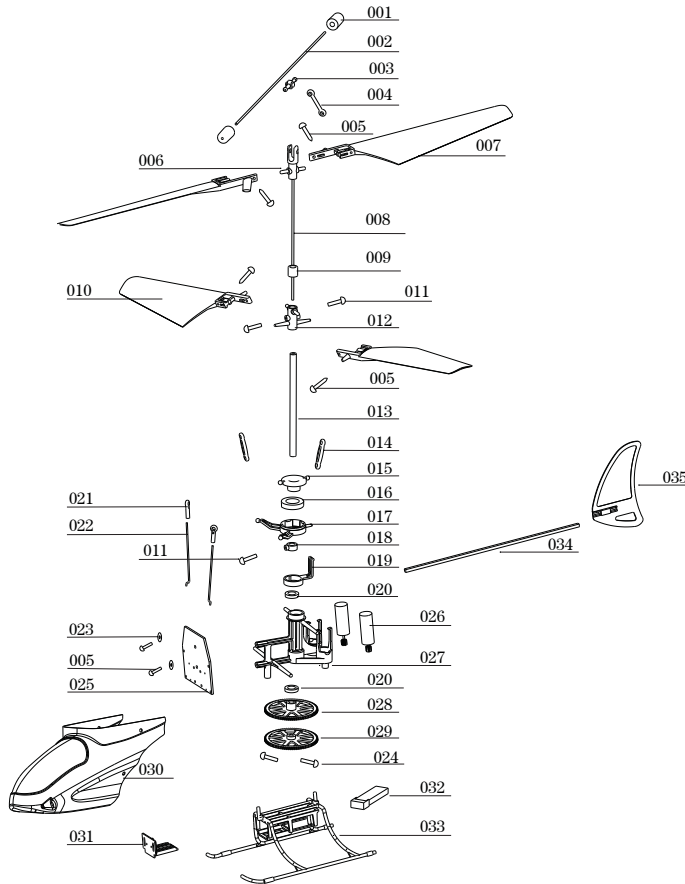
Optional Parts

Please contact the dealer when you are in need

- Charger(an adaptor included): AC/DC , chargeable to 4 Lithium battery at once

Parts list

● Please buy related parts according to this chart



序号	零件名称	数量
001	Balance hammer	2
002	Balance bar	1
003	Balance amount	1
004	Rotor head linkage	1
005	Screw PA1.2X5	6
006	Top blade head	1
007	Top blade	2
008	Inner shaft	1
009	Bearing seat	1
010	bottom blade	2
011	Screw PA1.2X3	3
012	bottom blade head	1
013	Outer shaft	1
014	Rotor bottom linkage	1
015	Top swashplate	1
016	Bearing MR106	1
017	Bottom swashplate	1
018	Fixing holder	1
019	Fixing slot	1
020	Bearing M R63	2
021	Adjustable ball Joint	2
022	Servo Linkage	2
023	Insulation ring	2
024	Screw PM 1.2X2.5	2
025	Receiver	1
026	Motor	2
027	Frame	1
028	Top blade gear	1
029	Bottom blade gear	1
030	Canopy	1
031	Battery holder	1
032	Lithium battery	1
033	Landing gear	1
034	Tail Boom	1
035	Tail fin	1

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2 Hover

When the helicopter is flying to a certain high level, you can try to hover. Push the right hand stick up and down slightly to make the helicopter go up and down slowly .Please refer to the adjusting methods in the first part"Take off" to do some slight adjustments to the helicopter. When finished above adjusting , the helicopter should keep at a certain high level almost without any throttle input.

! Important Practice more and make yourself to be able to freely control the helicopter going up and down

3 Landing

Pull the right hand stick downward slowly to land the helicopter steadily on a plain ground.

4 Area Flying

● When you can successfully fly the helicopter in hover , you can start to learn to control the helicopter to fly in a certain area.

When the helicopter is lifted to a certain high level, practice controlling the helicopter by joysticks to go forward, backward, turn left and right .At the early stage of practice, control 2 directions each time , you can do multiple directions control when you are experienced .

For professionals

Please move on to this level after mastering the basic flying skills

1 Side fly to left and right in hover

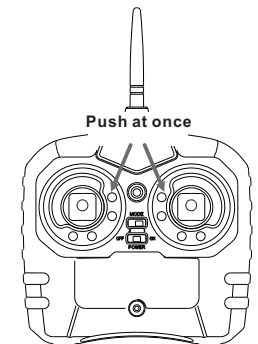
When the helicopter is lifted in a certain high level , move the helicopter to side fly to left and right .

! Notice When you go side fly , the throttle will move along . So when doing side fly(or after), the helicopter might go up and down rapidly .Please do some adjustments immediately Notice by pushing the throttle to the opposite direction .

2 Advanced fly mode

! Important Notice When the advanced mode is open, the flying sensitivity will be increased and the operation will be harder as well . Please do not open the advanced fly mode before you master the basic flying skills.

After turning on the controller power switch and closing the protection system, push both buttons at once on the controller as shown by the right chart. The power indicator light is blinking ,showing the advanced fly mode is open (close the mode by pushing again both same buttons at once)



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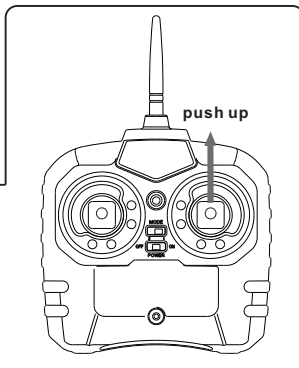
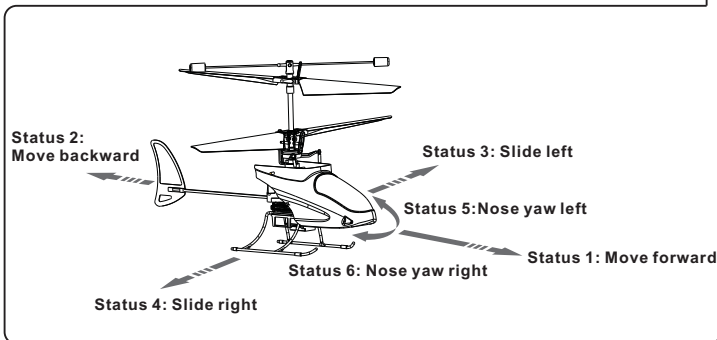
Flying instructions

Please read the instructions before your first fly.

Important You may not completely know the functions of this model before your first fly ,please perform byfollowing below steps and do related adjustments.This will ensure the model to be mostly protected.

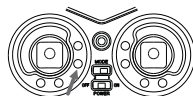
1 take off

Push the right hand stick slowly till the propller moving fast enough to lift the helicopter from the ground .Observe the flying status, please adjust the plane by following below steps if the helicopter can not climb up vertically .



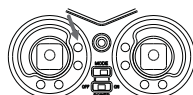
● Status 1: Move forward

Adjust by pushing elevator trim down button .Push once each time till the problem is resolved.



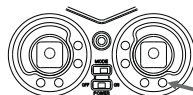
● Status 2: Move backward

Adjust by pushing elevator trim top button.Push once each time till the problems is resolved.



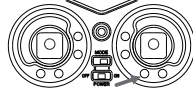
● Status 3: Slide left

Adjust by pushing aileron trim left button. Push once each time till the problems is resolved.



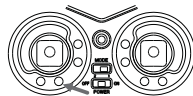
● Status 4: Slide right

Adjust by pushing aileron trim right button. Push once each time till the problems is resolved.



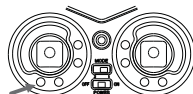
● Status 5:Nose yaw left

Adjust by pushing rudder trim right button. Push once each time till the problems is resolved.



● Status 6: Nose yaw right

Adjust by pushing rudder trim left button. Push once each time till the problems is resolved.

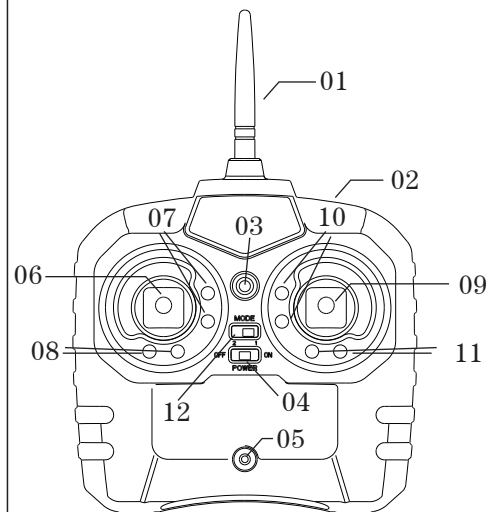


Notice

Through above adjustments, the helicopter is supposed to fly very well. Some necessary accurate trim adjustments will be needed to perfect the flying performance after the plane is taking off .

Functions of Transmitter

please read following instructions very carefully and keep them in mind



序号	名称	说明
01		
02	Controler body	
03	Power indicator	
04	Power switch	
05	charging indicator	
06	Left hand joystick	Forward , backward, left and right
07	Elevator Trim button	trim for forward ,backforward
08	Rudder trim button	trim for left and right
09	Right hand joystick	Up,down, yaw left, yaw right
10	Throttle trim button	trim for throttle position
11	Aileron trim button	trim for sliding left and right
12	Mode switch	not available for switching mode

How to operate

Please perform by following the usage guidelines very closely

1 Installing the Transmitter Batteries

1. Install four AA batteries in the transmitter, make sure the polarities are correct.
2. Test transmitter: turn the power on , The LED light at the top of the transmitter should begin to glow solid red.
- 3.put on the hatch of the battery compartment.



Warning ⚠ Danger

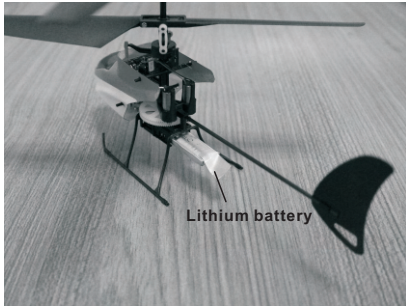
Incorrect installment can result in short circuit , may also cause fire ,explosion . Must install by strictly following the instructions .

2 Charging lithium battery

1. Put the package attached lithium battery(pay attention to the direction, the end with metal is facing downward) into the charging slot on the back of the transmitter.
2. turn the transmitter around , if the charging indicator is glowing solid red ,it means its charging .
3. After the indicator light is off(around 30 minutes) the battery is fully charged, pull it out from the charging port .



3 Installing the flight battery



Install the fully charged battery in the helicopter by sliding it into the battery mounting slot with the exposed metal polarity facing downward just below the main gear (the LED on the circuit board of the helicopter blinks fast)

4 Close the safety protection system

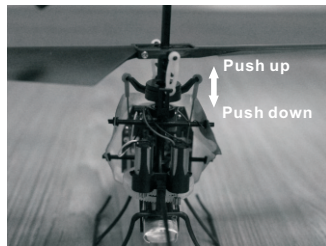
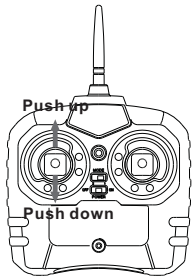
Important The model has system protection in order to avoid incidental operation. Before its closed, this model can not receive any other operation instructions.

1. Power on the controller (the power indicator begins blinking)
2. Push the right hand stick from the top to the bottom, controller beeps (power indicator stops blinking) the LCD on circuit board stops blinking, this means the safety protection system is closed.

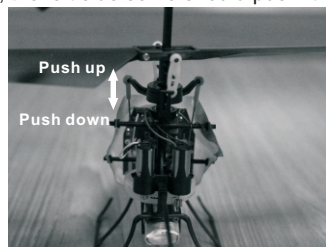
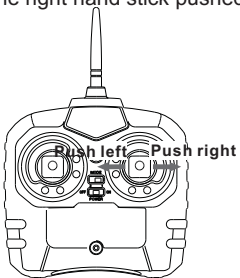
5 Control test

Important Although each Blade mSR model is test flown at the factory, it is a good idea to test the controls prior to the first flight to ensure none of the servos, linkages or parts were damaged during shipping and handling. This process could prevent crash caused by mechanical failure to happen and ensures fly safety.

- Close the safety protection system.
- With the left hand stick pushed up, the right side servo should push the swashplate downward. With the left hand stick pushed down, the right side servo should push the swashplate upward.

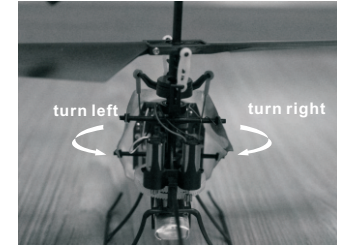
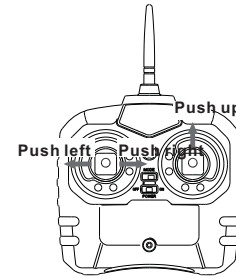


- With the right hand stick pushed to left horizontally, the left side servo should push the swashplate downward. With the right hand stick pushed to right, the left side servo should push the swashplate upward.



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- With the right hand stick pushed up slowly, the propeller starts rotating (but the helicopter remains on the table), meanwhile push the left hand stick to left, the helicopter will turn to left on the table. Push the left hand stick to right horizontally, the helicopter will turn to right on the table.



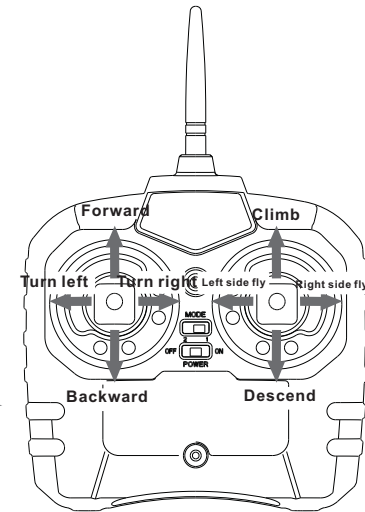
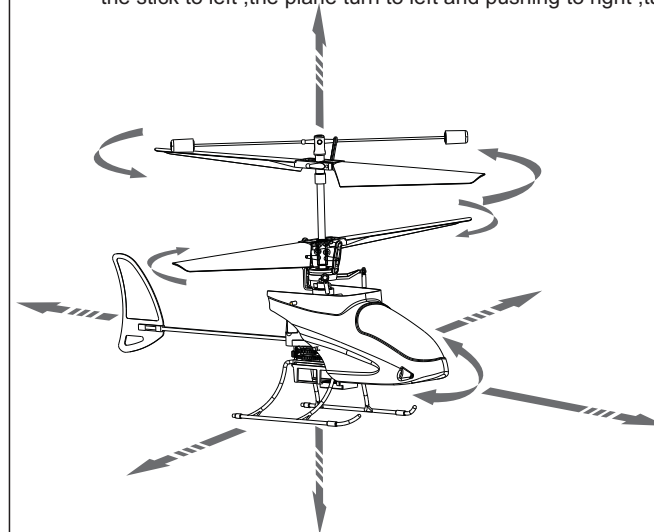
Important Notice Please make sure everything is ok before flying the helicopter! Please contact the manufacturer when any incidents occur.

6 How to fly



Important Notice Please push the throttle to the bottom immediately when any incidents occur.

- Vertical up and down: push the right hand stick up and down to control the helicopter. The higher position you set the throttle, the faster the propeller is spinning so the helicopter is climbing up more quickly.
- Forward and backward: Push the left hand stick up and down to control the plane. By pushing up, the plane will move forward, pushing down, move backward.
- Side flying to left and right: Control the helicopter by pushing the right hand stick to left and right. Pushing to left, the plane side fly to left, pushing to right, side fly to right.
- Turning to left and right: control the plane by pushing the left hand stick to left and right. Pushing the stick to left, the plane turn to left and pushing to right, turn to right.



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