

2. Advice parameters to RF Module with FUTABA radio controller

Fist, set FUTABA radio controller to Plane Mode, then adjust the radio controller to PPM transmit format.



[END POINT]	
1 AILE	100% / 100%
2 ELEV	100% / 100%
3 THRO	100% / 100%
4 RUDD	120% / 120%
5 GEAR	100% / 100%

[REVERSE]	
1 AILE	NOR
2 ELEV	NOR
3 THRO	NOR
4 RUDD	REV
5 GEAR	NOR

FUTABA radio controller

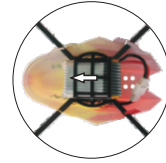
6. Instruction for XC-IS2 Charger

- XC-IS2 Charger is suitable for 1 or 2 cell (3.7V) Li-ion or li-polymer battery. Please plug the pin of your battery into the jack of the XC-IS2 Charger.
- Please plug the pin of your battery into the jack of the USB first and then connect to the power. Otherwise, the LED may not become red and the voltage may be high than 3.8V. You need to disconnect the USB power supply and reconnect it.
- When USB power supply is well connected and battery is charging, the LED will become red. After your battery is full charged, the LED will not become Green.

7. Steps of flight

7.1 Installation of battery pack

Install the battery to the pack



1. Install the battery pack in the battery compartment



2. Connect the power cable of FF120 to receive signal from transmitter

7.2 Matters needing attention

(1) Please follow this rules: "Open the radio first, connect the Quadcopter FF120 power last". After open the radio power button, please connect the FF120 power in 10S, the signal indicator light begins flashing, the light will solid after 1-3 seconds, and the four motor will self-checking rotation, then the receiver has received the signal of the radio successfully, binding finished.

(2) If more than 10 seconds passed before the power cable was connected binding will fail. When binding fails, disconnect the battery.

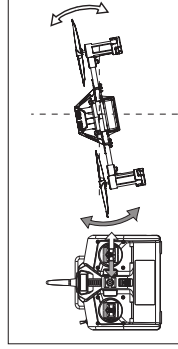
7.3 Trouble shooting a flashing receiver LED after connecting the power cable

Possible causes	Solutions
Code pairing failed	Turn transmitter off then on and re-connect FF120 power cable
The throttle stick of transmitter is not at the lowest position	Pull down the throttle stick to the lowest position and re-code pair
The transmitter battery is low and empty	Replace transmitter battery and re-codepair(re-bind)
The FF120 battery is low and empty	Replace the FF120 battery with a fresh pack and re-code pair
No function in receiver or transmitter	Replace faulty receiver or transmitter and re-code pair

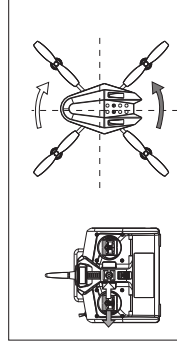
8. Flight Control diagram

8.1 Flight in Normal Status

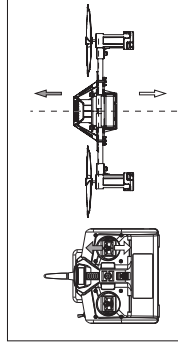
Mode 1 (throttle stick at right hand)



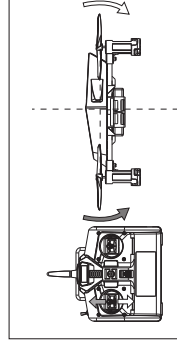
1. When moving the aileron stick left or right, the FF120 accordingly flies left or right.



3. When moving the rudder stick left or right, the head of FF120 accordingly flies left or right.

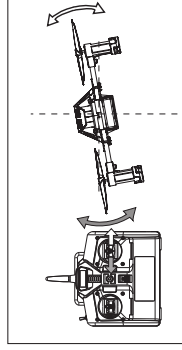


2. When moving the throttle stick up or down, the FF120 accordingly flies up or down.

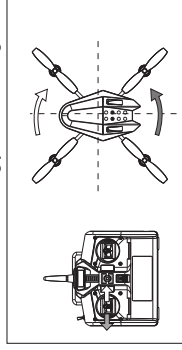


4. When moving the elevator stick up or down, the FF120 accordingly flies forward or backward.

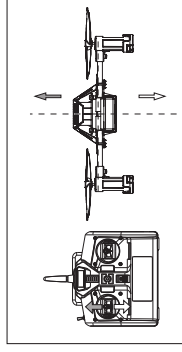
Mode2 (throttle stick at left hand)



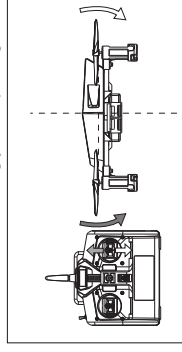
1. When moving the aileron stick left or right, the FF120 accordingly flies left or right



3. When moving the rudder stick left or right, the head of FF120 accordingly flies left or right.



2. When moving the throttle stick up or down, the FF120 accordingly flies up or right



4. When moving elevator stick up or down, the FF120 accordingly flies forward or backward.

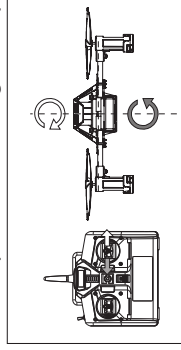
8.2 Roll flight practice

FF120 can finish excited stunts actions, such as the front and back, right and left rolls.

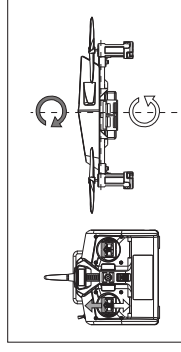
Matters need to be attention when the first flight

1. Choose a spacious ground with soft grass to practice.
2. Select roll flight mode
3. Advise beginner to increase servo distance of ELEV and AILE of the transmitter to 100%-110%. And can adjust according to personal skill level. The default setting is 100%.
4. Practice of throttle stick: when FF120 roll from normal status, the throttle stick need to be pulled down slowly; push up the throttle when it exchanged normal status to roll. Please adjust according to personal skill level.

Mode 1 (throttle stick at right hand)

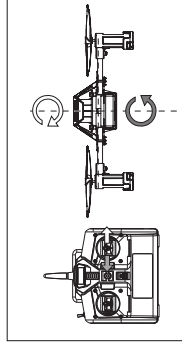


1. When moving the aileron stick left or right, the FF120 accordingly rolls left or right..

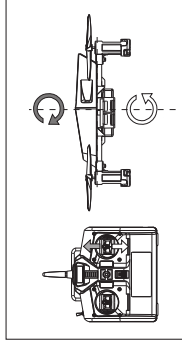


2. When moving the elevator stick up or down, the FF120 accordingly rolls forward or backward.

Mode 2 (throttle stick at left hand)

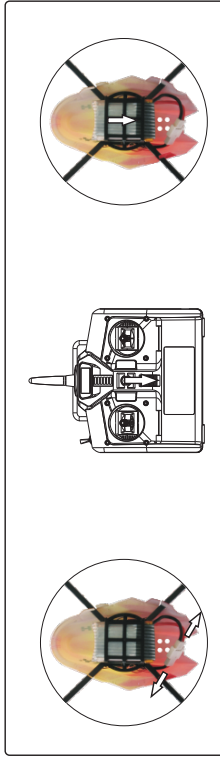


1. When moving the aileron stick left or right, the FF120 accordingly rolls left or right.



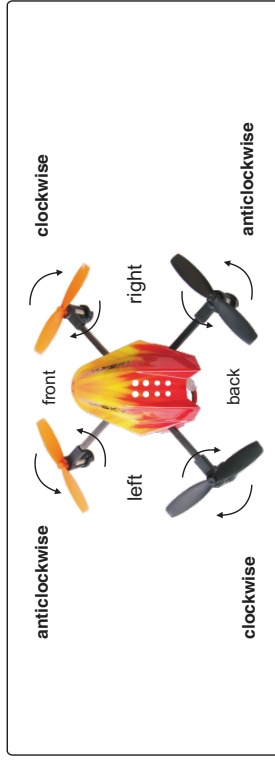
2. When moving the elevator stick up or down, the FF120 accordingly rolls forward or backward.

9. Steps of Ending flight



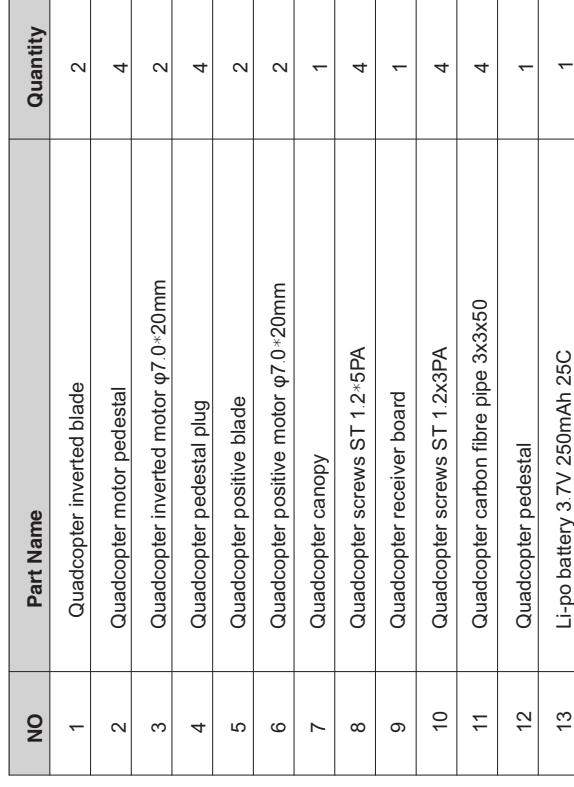
1. Disconnect the power cable of FF120
2. Turn off the transmitter
3. Remove the battery

10. Addition Instruction



1. The front propellers are in orange color while the rear propellers are in black.
2. After connecting the power of the FF120, left rear / right front blade rotates clockwise, left front / right rear blade rotates Counterclockwise.
3. You can adjust the radio trim(except the throttle trim) if the quadcopter flight drift.

12. Parts List



13. Accessories list

Parts No:800045 Parts Name: FF120 Quadcopter pipes		Parts No:800046 Parts Name: FF120 Quadcopter pedestal		Parts No:800047 Parts Name: FF120 Quadcopter green positive inverted blade		Parts No:800048 Parts Name: FF120 Quadcopter motor pedestal	
Parts No:800053 Parts Name: FF120 Quadcopter Li-po battery		Parts No:800050 Parts Name: FF120 Quadcopter Canopy		Parts No:800055 Parts Name: FF120 Quadcopter screws bag		Parts No:800052 Parts Name: FF120 Quadcopter inverted motor	
Parts No:800057 Parts Name: FF120 Quadcopter transmitter		Parts No:800060 Parts Name: FF120 Quadcopter XC-1 SZ Charger		Parts No:800061 Parts Name: FF120 Quadcopter Canopy		Parts No:800056 Parts Name: FF120 Quadcopter receiver board	
Parts No:800057 Parts Name: FF120 Quadcopter transmitter		Parts No:800058 Parts Name: FF120 Quadcopter inverted motor accessories		Parts No:800059 Parts Name: FF120 Quadcopter black positive inverted blade		Parts No:800060 Parts Name: FF120 Quadcopter orange positive inverted blade	



Quadcopter

Specifications and Features

Specifications and features:

Overall Length: 127.7mm
Overall height: 36mm
All-up weight : 35g
Main rotor blade Dia: 56mm
Overall rotation Dia: 176mm
Battery: 3.7V 250mAh 20c
Radio controller: CY400
Flight time: 6~7min

1. Adapt the newest stable six-axis system, high sensitivity and efficiency.
2. Mini body design, light and anti-throw
3. Stable flight, can realize front and back, left and right rolls

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.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.