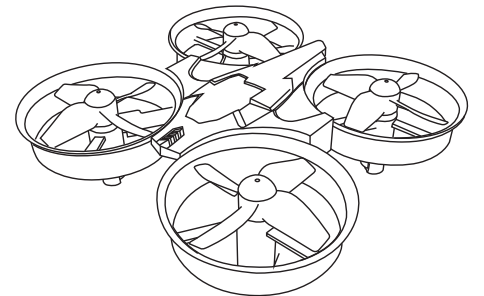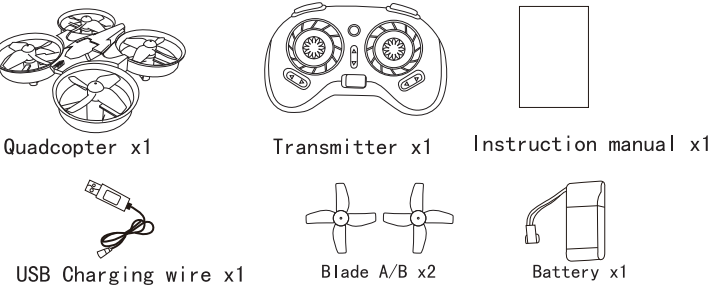# INSTRUCTION MANUAL

**RCTECH**

- Headless mode
- One key flip
- One key rotation
- One key recover balance mode
- One key Headless mode return
- Brand new remote with trimming control mode
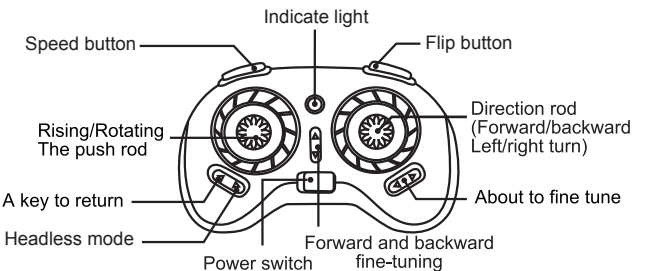
6-Axis Gyro System   2.4GHz   6Channel   360°Flips

please read the Instuction Manual carefully before using.
Please keep this manual for further reference.
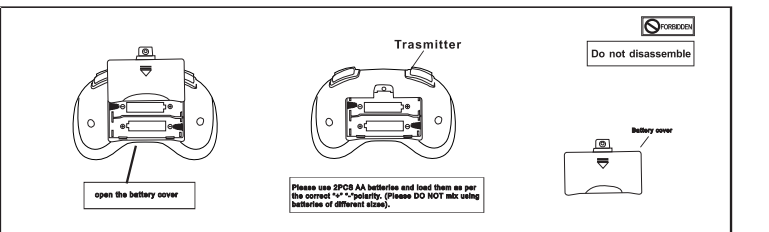
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## 1. INCLUDED PARTS

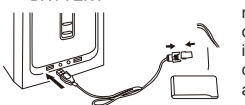Quadcopter x1        Transmitter x1        Instruction manual x1

USB Charging wire x1    Blade A/B x2        Battery x1

## 2. TRANSMITTER

### 2.1 Introduction Of Transmitter

Indicate light
Flip button
Speed button
Direction rod (Forward/backward Left/right turn)
Rising/Rotating The push rod
About to fine tune
A key to return
Headless mode
Power switch
Forward and backward fine-tuning

### 2.2 Install Batteries

Transmitter
Do not disassemble

Cam the battery cover

Please use OPEN AA batteries and best there as per the correct "+/-" lacality. (Please DO NOT mix using batteries of different sizes)
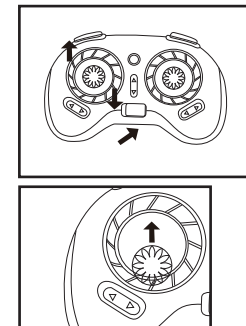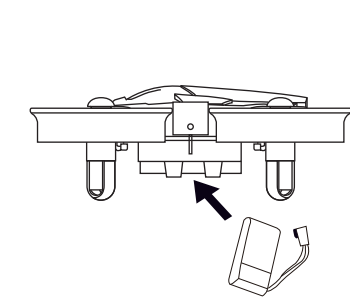
### 3. CHARGING LI-PO BATTERY

First, connect USB to the USB slot on the computer or to USB charger. At this moment, the indicate light will be constantly on at USB charging outlet. Then connect the battery to USB charging line. The red light will be off which indicates it's in charging and a constant light indicates that it has been fully charged. The time for charging is about 40 to 50 minutes and flight time is around 5 minutes. For safety reasons, charging should be done in sight.

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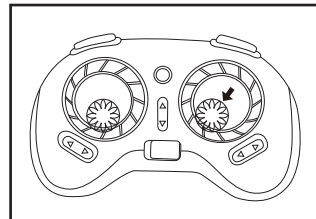## 4. OPERATION INSTRUCTIONS

### 4.1 Power on &Match

#### 4.1.1
①Insert the battery into the battery compartment of the quadcopter,Power on the quadcopter (the two LED indicators will flash). Put the quadcopter on a flat surface.
②Switch power on, and the controller will beep twice and it's the indicators flash. The indicators on the quadcopter will flash as well.
③Push the left rod completely forward and controller will beep one time. The indicator on the controller and two indicators on the quadcopter will flash. Pull the left rod completely to the bottom and the controller again beep once. The indicator on the controller and the four indicators on the quadcopter will turn on. The two are now paired.

#### 4.1.2 After code match is done with the air vehicle, push the left joystick throttle to start the air vehicle.

### 4.2 Gyroscope collaboration
When code match is finished, put the air vehicle on a level position and return the throttle stick to zero. Push the direction stick 45 degrees toward the left bottom to collaborate the gyroscope. If two LED lights flick on the air vehicle, it means the gyroscope is returning and scanning for position. If the LED light stops, it suggests the collaboration is successfully done.
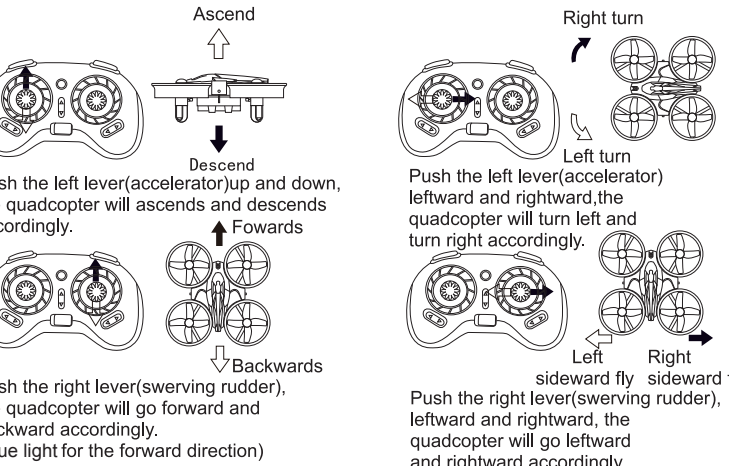(Refer to the picture on the right)

Note:Before flying ,the quadcopter should be placed on a flat surface to calibrate to ensure stable flying . If the quadcopter flies off tract, you can adjust it with the remote.

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## 5.OPERATING AND CONTROL

### 5.1 Operation
It may take some time to learn how to operate this quadcopter. Please take your time to learn in the beginning. If the quadcopter slightly descends, softly push the left rod to adjust the flying height.DON NOT PUSH THE ROD TOO SHARPLY.

Ascend
Descend
Push the left lever(accelerator)up and down, the quadcopter will ascends and descends accordingly.

Right turn
Left turn
Push the left lever(accelerator) leftward and rightward,the quadcopter will turn left and turn right accordingly.

Forwards
Backwards
Push the right lever(swerving rudder), the quadcopter will go forward and backward accordingly.
(Blue light for the forward direction)

Left   Right
sideward fly  sideward fly
Push the right lever(swerving rudder), leftward and rightward, the quadcopter will go leftward and rightward accordingly.
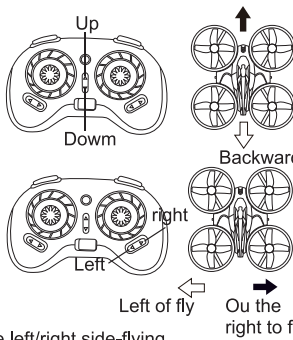
### 5.2Trimming
ADJUSTMENT OF EACH TRIM
Slowly push upward the throttle lever.When the aircraft is flying off the ground, if the aircraft keep inclining to different direction, please use the trimmer key to trim it to fly in normal state.
1.Adjustment of elevator trim
Just before the aircraft lift-off, the nose lean forward/backward...
When leans forward, adjust the trim to down.
When leans backward, adjust the trim up.
2.Adjustment of aileron trim
When the aircraft is just taking off, the aircraft may make left/right side-flying...
When making right-side flying, please trim it to the left.
When making left-side fiying, please trim it to the right.

Up
Down
Forwards
Backwards
Right
Left
Left of fly
Ou the right to fly

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## 6.360°FLIPS
Press down the right rod and the transmitter nwill beep one time to enter advanced mode. Now flip is allowed.
In order to get good flipping performance,It is recommened to keep 1.
5meters of attitude between the quadcopter and the ground.
It will nake flipping easiler darning ascending as altitude will be lost durning flips.

### 6.1 Leftword 360°flip
Press down the right rod and the transmitter will beep. Push left and the quadcopter will flip left.

### 6.2 Rightword 360°flip
Press down the right rod and the transmitter will beep. Push right and the quadcopter will flip right.

### 6.3 Forword 360°flip
Press down the right rod and the transmitter will beep. Push forward and the quadcopter will flip forward.

### 6.4 Backword 360°flip
Press down the right rod and the transmitter will beep. Push back and the quadcopter will flip backward.

## 7.HEADLESS MODE
### 7.1 Pressing the stick(Headless mode)
By default, blue led light are the front of the drone.When flying the unit,your movements with the remote control will work according to the direction of the front.However,if headless mode is activated you are the center of the unit,so the drone will respond to directions as if it is facing the way you are facing.
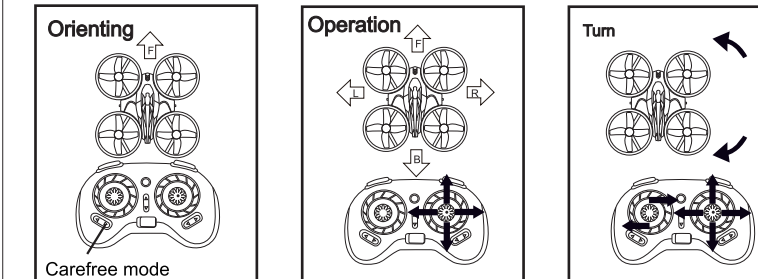
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Your left,right,up,and down also become that for the drone.Do not move your possition for correct operation. When the headless mode is activated the light will flash.By pressing the button Headless mode again you desactivate it.

※Starting Headless Mode
After pairing the quadcopter,press down on the left rod to enter Headless Mode.This can be done when the quadcopter is in the air or on the ground. The transmitter will beep and the fiagonal two indicatorson the quadcopter will flash.
※Leaving Headless Mode
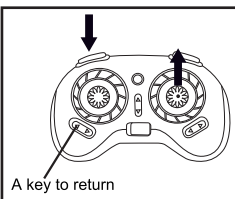Press down on the left rod to exit Headless Mode. The controller will beep and all four indicators on the quadcopter will trun on.

Orienting    Operation    Turn

Carefree mode

See the diagram.Note in Headless Mode,a forward push on the cotroller will send the quadcopter in a forward direction, away from you.Pull back and the quadcopter will come towards you again,no matter the orientation of the front black blades)of the quadcopter to the user as long as he is stationary.
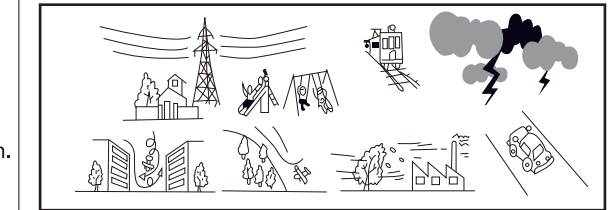If the user changes location,simpty re-pair the controller using belowinstructions.

### 7.2 Direction Calibraton
To do the auto return you must maintain your fixed position during the flight.
At anytime,press the stick(a key to return) .
The unit will return to the hight.Be careful when drone get close to you.

A key to return

Low Power Alert
When the two indicators on the quad flash together,this indicates low power.
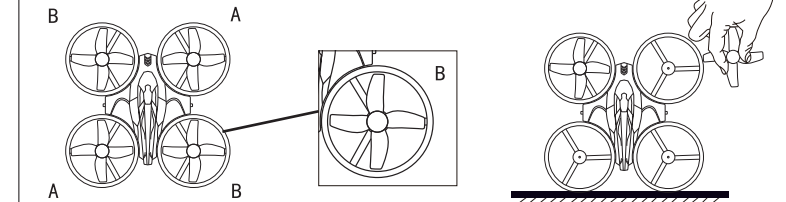The flip mode will shut down and the quadcopter will return to normal mode automatically.

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## 8. FLIGHT ENVIRONMENT

Under the bad conditiong above, the quadcopter shall not operate to avoid any potential damages.

## 9.INSTALL BLADES
The blades shalled to designated location.
Blade A/B shall be installed to Location A/B on body,Or the quadcopter may have problems.

Install blades:
Hold the head to aim at the motor axis and press down to lock,Be careful not to damage or deformthe blades.

B   A
A   B

## 10.TROUBLE SHOOTING
10.1Transmitter and quadcopter not bland
Solution:1）To ensure that the frequency of success.Re frequency.
2）Battery power shortage,replace the battery.
10.2   3）To confirm that the remote control is not the original match.
Unable to flip
Solution:1）Press Function combination button,change to flip mode.
2）Check if Li-po power is too low and needs to be recharged.
10.3 Quadcopter is shaking with noise:
Solution:1）Check blade if deformation or not,replacement new blade.
2）Off the quadcopter power and restart.
3）Put the quadcopter in the horizontal plane,and re calibrate the gyroscope.
10.4 Cannot take off
Solution:1）Wrong installation of the blade.Make sure the blade placed on the right motor.
2）Check quadcopter canopy if loose or not,block blades flying.
3）Check quadcopter battery is power full,if the low power,quadcopter canopy inner light will be alternately flashing.