



**LD-B20/LD-B22**

**User Manual**



Note: This manual applies to both LD-B20 and LD-B22. For ease of understanding, LD-B20 is used as an example in this manual to illustrate the functions and the usage of LD-B20 and LD-B22.

### **Thank you for purchasing LD-B20/LD-B22.**

To fully enjoy the benefits of this product and ensure safety, please read the manual carefully and set up the device as instructed steps. If any problems found during the operation process, either way listed below can be used as online technical support.

1. Send mails to [after\\_service@radiolink.com.cn](mailto:after_service@radiolink.com.cn) and we will answer your question at the earliest.
2. If purchased from an approved dealer or distributor, you can contact them directly for support.

All manuals are available on RadioLink official website [www.radiolink.com.cn](http://www.radiolink.com.cn).

### **SAFETY PRECAUTIONS**

1. Please do not fly in the rain! Rain or moisture may cause flight instability or even loss of control. Never fly if there is lightning. It is recommended to fly in conditions with good weather (No rain, fog, lightning, wind).
2. When flying, you must strictly abide by local laws and regulations and fly safely! Do not fly in no-fly areas such as airports, military bases, etc.
3. Please fly in an open field away from crowds and buildings.
4. Do not perform any operation under the condition of drinking, fatigue or other poor mental state. Please operate in strict accordance with the product manual.
5. Please be cautious when flying near electromagnetic interference sources, including but not limited to: high-voltage power lines, high-voltage transmission stations, mobile phone base stations and TV broadcast signal towers. When flying in the above-mentioned places, the wireless transmission performance of the remote control may be affected by interference. If there is too much interference, the signal transmission of the remote control and the receiver may be interrupted, resulting in a crash.
6. Please be sure to install the propeller according to the instructions in the manual to avoid installing the reverse propellers and causing a crash.
7. After the flight, be sure the disarm is successful. Please unplug the battery until the propellers stops.
8. When connecting the flight controller to Betaflight Configurator or calibrating the ESC, please make sure that the propellers are not installed on the aircraft.
9. When taking off, please turn on the transmitter first and then the aircraft; After finishing the flight, unplug the aircraft battery first and then power off the transmitter.
10. When arming with success, make sure to stay a certain distance away from the aircraft to ensure safety. Please gently push the throttle when start the flight.

### **WARNING**

This product is not a toy and is **NOT** suitable for children under the age of 14. Adults should keep the product out of the reach of children and exercise caution when operating this product in the presence of children. Water or moisture may enter the mini drone and the transmitter through gaps of electronics and cause model instability, even out of control. If flying in the wet weather (such as game) is inevitable, always use plastic bags or waterproof cloth to cover the transmitter.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and prevents external wireless interference, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## Packing List

| Name                  | Details                            | PNP Version | RTF Version |
|-----------------------|------------------------------------|-------------|-------------|
| Fuselage              | The drone (Blue/Red)               | 1           | 1           |
| Transmitter           | RadioLink T12D                     |             | 1           |
| Receiver              | RadioLink R16SM                    |             | 1           |
| FC/ESC                | LD-B20/LD-B22 AIO 40A 3-4S         | 1           | 1           |
| Motor                 | SZ-SPEED 1507-4000KV Motor         | 4           | 4           |
| Propeller             | Gemfan 2828 Propeller              | 4           | 4           |
| Battery               | Gensace 4S 850mah 40C Lipo Battery | 1           | 1           |
| Charger               | Gensace B6 Charger                 | 1           | 1           |
| Cable                 | Type-C cable                       | 1           | 1           |
| Hex Wrench            | 1.5mm Hex Wrench                   | 1           | 1           |
| Transmitter accessory | T12D Throttle Return Accessory     |             | 1           |
| Package Box           | Package Box                        | 1           | 1           |

Note: T12D is used as an example in the manual. Users can select other RadioLink transmitters such as T8FB/T8S to control the drone.

## Parameters

|                        |                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------|
| Weight                 | LD-B20: 198g; LD-B22: 206g                                                                                     |
| Diameter               | LD-B20: 195mm; LD-B22: 210mm                                                                                   |
| Material               | Carbon Fiber (Frame), Plastic (Ball Shells, Battery Case)                                                      |
| Signal input supported | CRSF、ELRS、SBUS                                                                                                 |
| Working Modes          | Stabilize mode, Turtle mode                                                                                    |
| Flight Time            | 5-6 minutes                                                                                                    |
| Low Battery Alarm      | 14.5V by default. When the battery voltage is lower than 14.5V, T12D will make “DDD” sounds as a unit to warn. |
| LED Strip              | With a tail LED strip which supports 7 colors, and it can be turned off.                                       |

## 1. Theory of Flight

## 1.1 Transmitter

The two joysticks of T12D correspond to the four basic channels respectively.

Note: All of the following are based on T12D Mode 2 (Throttle on the left stick).

## Left joystick

Make the LD-B20 rise or descend by toggling the left stick (THROTTLE) vertically upward or downward and turn clockwise or anticlockwise by toggling the left stick (YAW) to the left or right.

## Right joystick

Make the LD-B20 fly forward or backward by toggling the right stick (PITCH) vertically upward or downward and to left or right by toggling the right stick (ROLL) to the left or right.

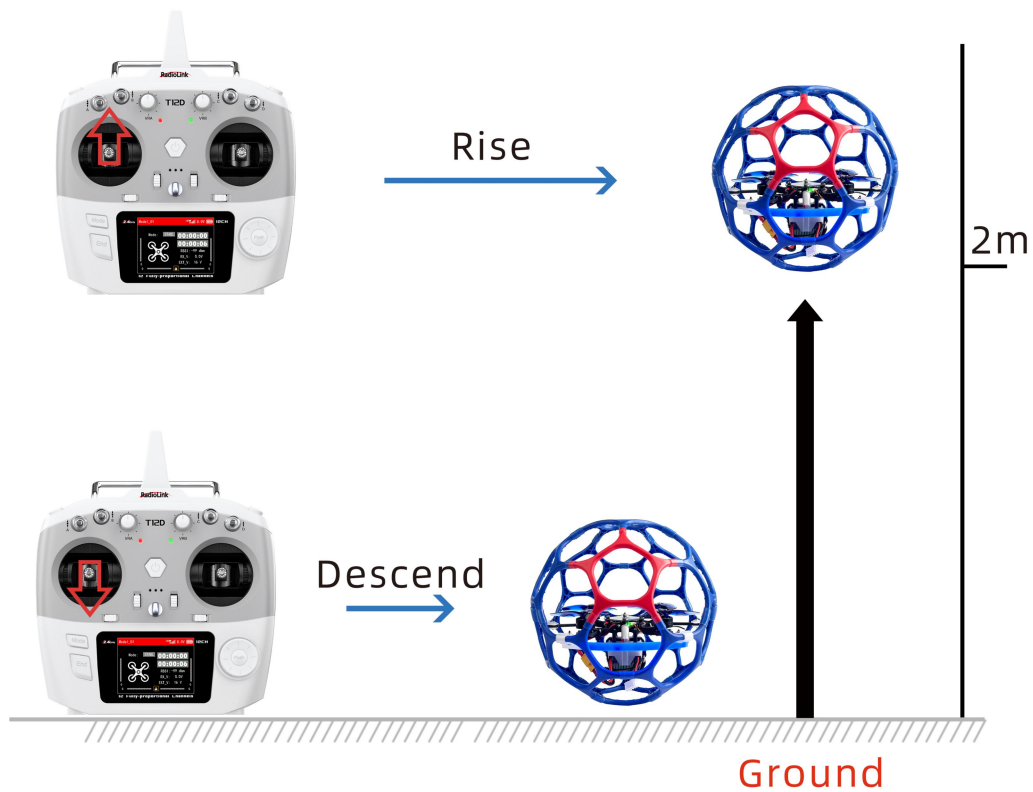


## MODE 2

## 1.2 Joysticks & Flight Movements

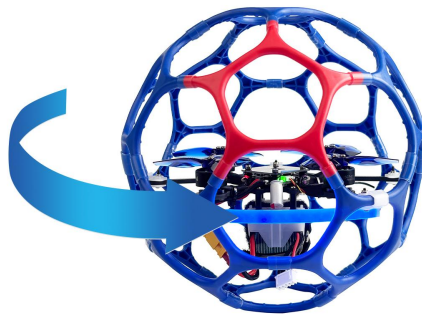
### A. Throttle: Rise/ Descend (Note: Take T12D mode 2 as an example)

Toggle the throttle stick (on the left) vertically upward and LD-B20 will rise and toggle the throttle vertically downward, then LD-B20 descends.



#### B. Yaw: Clockwise/Anticlockwise

Toggle the yaw stick (on the left) to the left and LD-B20 will turn anticlockwise and toggle the yaw stick to the right, then LD-B20 turns clockwise.



Yaw stick to the left, LD-B20 turns anticlockwise



Yaw stick to the right, LD-B20 turns clockwise

### C. Pitch: Forward/Backward

Toggle the pitch stick (on the right) vertically upward and LD-B20 will fly forward and toggle the pitch stick vertically downward, then LD-B20 flies backwards.



Pitch stick upward, LD-B20 moves forward



Pitch stick downward, LD-B20 moves backward

### D. Roll: Right/Left

Toggle the roll stick (on the right) to the left and LD-B20 will fly to the left side and toggle the roll stick to the right, then LD-B20 will fly to the right side.



Roll stick to left, LD-B20 fly to the left side



Roll stick to right, LD-B20 fly to the right side

## 2. Flight Controller Channel Introduction

| Channel | Introduction     |
|---------|------------------|
| CH1     | Roll             |
| CH2     | Pitch            |
| CH3     | Throttle         |
| CH4     | Yaw              |
| AUX1    | Disarm/Arm       |
| AUX2    | Stabilize mode   |
| AUX3    | Turtle mode      |
| AUX4    | LED strip switch |

## 3. Transmitter Switch Introduction

LD-B20 comes with RadioLink T12D transmitter. Here is the introduction of the switches of T12D:

SWA: Push it up to disarm the drone. Push it down to arm the drone. NULL in the middle. Corresponding to AUX1 of the flight controller.

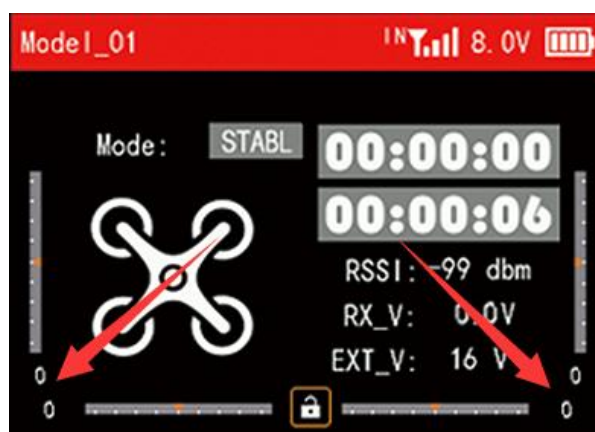
SWB: Stabilize mode. Corresponding to AUX2 of the flight controller.

SWD: Push it up to turn off the turtle mode. Push it down to turn on the turtle mode. Corresponding to AUX3 of the flight controller.

VRA: Turn it fully counter-clockwise to turn off the lights; turn it clockwise to switch 7 light colors. Corresponding to AUX4 of the flight controller.



When the trim values on the screen of T12D are not 0, please adjust the trim values to 0 by using the four trim buttons (as shown above). For more details, please refer to the detailed manual of T12D: [https://www.radiolink.com.cn/t12d\\_manual](https://www.radiolink.com.cn/t12d_manual)



## 4. Arm and Disarm LD-B20

### Arm LD-B20

Power on LD-B20 with the 4S lipo battery that comes with it. After powering it up, place LD-B20 on the ground and keep it stationary for self-check. A solid red LED on the flight controller indicates that the drone is ready to be armed. (If the red LED is flashing, there is pre-arm failure. Please refer to the [15. Troubleshooting](#) or connect the flight controller to Betaflight configurator to check the pre-arm failure and solve it.)

Make sure the throttle is at the lowest position. Push SWB to any position. Then push SWA down to the lowest position, and the propellers start to rotate at idle speed indicates arm successful.

Note: The throttle stick must be in the lowest position when arming.



**LD-B20 propellers start to rotate at idle speed indicates arm successful**

### **Disarm LD-B20**

When the flight is finished, push up SWA to disarm LD-B20. LD-B20 propellers stop rotating indicates disarm successful.

Note: During the flight, the motors/propellers will stop immediately if SWA is pushed up. Please pay attention to avoid hitting people and damaging valuables.



**LD-B20 propellers stop rotating indicates disarm successful**

## **5. Two Working Modes**

### **5.1 Stabilize mode**

In Stabilize mode, the throttle corresponds to the drone power. The more the throttle stick is pushed up, the greater the climbing power. If you want the drone to maintain the same altitude, the pilot needs to practice for a period of time to achieve it through flight operations.

## 5.2 Turtle mode

If the drone suffers a collision or operational error that causes it to flip over—leaving it unable to fly up—you can activate turtle mode to flip it back, so it can take off. First, push SWA up to disarm the drone, and the propellers stop rotating. Next, push the throttle stick to the lowest position. Then, push SWD down to activate the turtle mode. Finally, Push SWA switch to the lowest position to arm the drone. If the propellers remain stationary, you have successfully entered the turtle mode. If the propellers start to rotate at idle speed instead, it merely indicates that the drone is armed. Please repeat the above steps to activate the turtle mode.

After the turtle mode is activated, move the roll or pitch stick to flip the drone. After the drone flips back to the level, push SWD up to exit the turtle mode. Push SWA up and then down to arm the drone, and take off.

Note: When turning on/off the turtle mode, the throttle stick must be at the lowest point. Otherwise you cannot turn on/off the turtle mode.

## 6. LED Strip Switch

LD-B20 has a tail LED strip. VRA is used to turn off the LED light or switch the colors. Turn it fully counter-clockwise to turn off the lights and turn it clockwise to switch 7 light colors, including purple, orange, red, yellow, green, cyan, and blue.

## 7. Low Battery Alarm

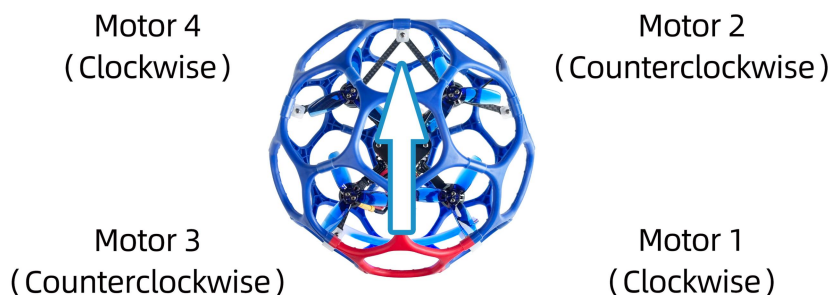
LD-B20 RTF version comes with a RadioLink R16SM receiver. R16SM supports model battery telemetry function. During the flight, the battery voltage of the drone can be viewed on the screen of T12D transmitter. The alarm voltage for the power battery is 14.5V for T12D by default. When the battery voltage is lower than 14.5V, T12D will make “DDD” sounds as a unit to warn. Please land the drone in time to replace the battery. If flight continues, the power of the drone will diminish significantly—eventually rendering it unable to fly. Such a scenario constitutes a state of severe battery over-discharge. It is strongly recommended to land and replace the battery as soon as the voltage reaches 14.5V. After landing, please disconnect the power and replace the battery in time to avoid over-discharge of the battery.

Note: If you want to modify the alarm voltage, please refer to the detailed manual of T12D: [https://radiolink.com.cn/t12d\\_manual](https://radiolink.com.cn/t12d_manual)

## 8. Motor and Propeller Installation

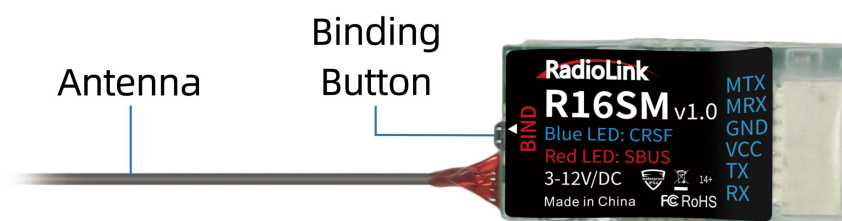
To make the drone fly, motors usually rotate clockwise (CW)/counterclockwise (CCW) with the propellers. It is very important to make sure about the rotation direction as below when installing motors. Otherwise, the drone would fail to take off.

Motor and propeller installation can be skipped as LD-B20 is already assembled by factory default. If any of the motors is worn out and needs to be replaced, it is essential to identify the correct motor/propeller rotation. Please follow the below picture to install the motor and propeller.



## 9. Binding (R16SM)

LD-B20 RTF version comes with T12D transmitter and R16SM receiver (as shown below).



If it is the RTF version purchased, there is no need to bind because the binding between the transmitter and R16SM receiver is complete by factory default. In addition to T12D, R16SM is also compatible with T16D/T8FB/T8S. If you want to change the transmitter, binding between the transmitter and receiver needs to be done first.

Here are the binding steps for RadioLink transmitter and receiver:

- ① Place the transmitter and receiver (installed on LD-B20) close to each other within 50 centimeters.
- ② Power on the transmitter and the receiver.
- ③ There is a black binding button on the side of the receiver. Press it for more than 1 second. When the LED starts flashing, meaning binding process has started. Note: If there are multiple devices of the same model in the same location, it is recommended to turn off the other devices first, and then binding them.
- ④ The binding is complete when the LED is always on means the binding is complete.

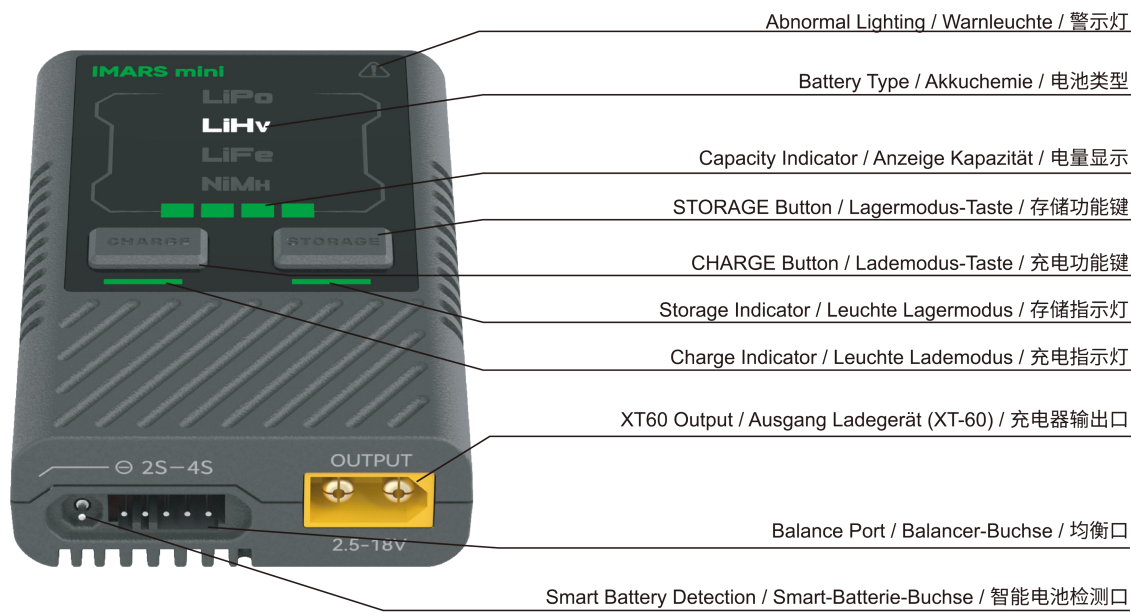
**Note:** Please always make sure the LED of R16SM is blue, meaning CRSF protocol. If the LED is red (SBUS working mode), please press the binding button once to change it to blue.

For transmitter and receiver from other brands, please refer to its detailed manual for binding steps.

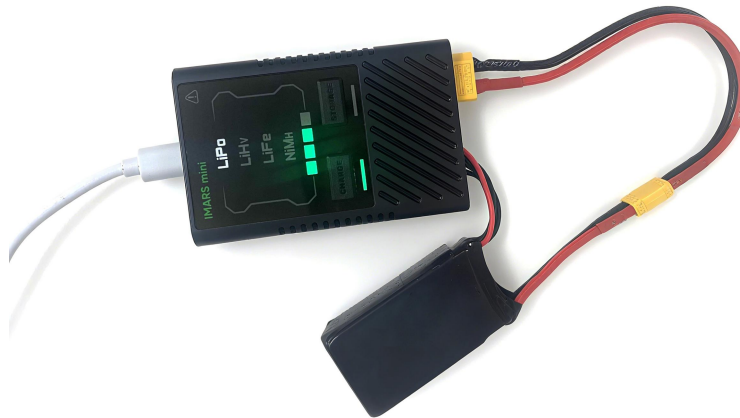
## 10. Charger

LD-B20 is packed with Gensace B6 charger to charge the battery.

Gensace B6 Overview:



### The connection between the B6 charger and the battery:



### Specifications:

Max. Charge Power: 60W

Charge Current: 1-5A, Max. 5A (Auto adjustment)

Max. Storage Power: 3W Discharge, 60W Charge

Input Voltage: 5~20V

Output Voltage: DC 2.5~18V

Max. Input Current: DC 3A

Balance Current: 0.4A/Cell × 2

Input port: QC/PD/BC1.2/TYPE-C V1.4/SDP/CDP/DCP/Apple 5V/2.4A

(does not support 5V/1A adapter input)

Abnormal battery voltage alarm: Yes

Output reverse connection protection and alarm: Yes

Balance port reverse connection protection and alarm: Yes

Supported Battery Types: LiPo/LiHv/LiFe(2~4S), NiMH(2~12S)

Working Temperature: 0~40°C

Storage Temperature: -20°C~60°C

Dimension: 85 × 55 × 21mm

Net Weight: Apporx. 64g

### Instructions:

1. When connecting a non-smart battery, under the condition that the discharge connector and the balance connector are successfully connected, if you need to enter the charging mode, firstly short press any key to select the battery type, for lithium batteries, then you need to press and hold the CHARGE button for 2 seconds, but for NiMH batteries, you need to simultaneously press and hold the CHARGE and STORAGE buttons for 2 seconds to start the charging mode. After successfully entering the charging mode, the charger will beep, and the charging indicator light will flash at a frequency of 1Hz. The charger does not need to set the charging current. The charger will intelligently adjust the charging current to a suitable charging current according to the battery voltage fluctuation. During the charging process, the battery capacity indicator light will display the current real-time battery status. The charger will beep when the battery is fully charged, and the charging indicator light will remain on.
2. When connecting a non-smart battery, under the condition that the discharge connector and the

balance connector are successfully connected. Suppose you need to enter the storage mode, firstly short press any key to select the battery type, then press and hold the STORAGE button for 2 seconds to start the storage mode. After successfully entering the storage mode, the charger will beep, and the storage indicator light will flash at a frequency of 1Hz. The battery capacity indicator light will show the current real-time battery status during the storage process. When the battery storage is completed, the charger will beep, and the storage indicator light will remain on.

3. When the charger is in any working mode. Suppose you need to cancel the corresponding working mode. You need to press and hold the CHARGE or STORAGE button for 2 seconds. After the cancellation is successful, the charger will beep, the charger will return to the idle state, and the battery capacity indicator light charging indicator light, and the storage indicator light will turn off.

If any question when using the charger, please feel free to contact Grepow Inc.

Tel: 9253647166

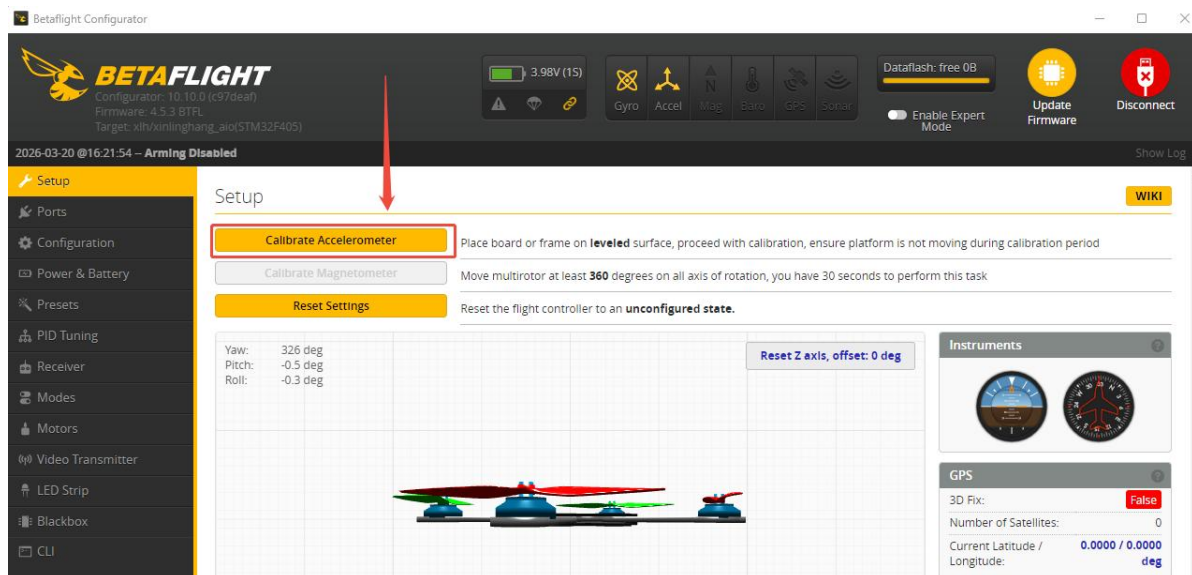
Fax: +1-925-364-7177

Email: [info@genstattu.com](mailto:info@genstattu.com)

## 11. Accelerometer Calibration

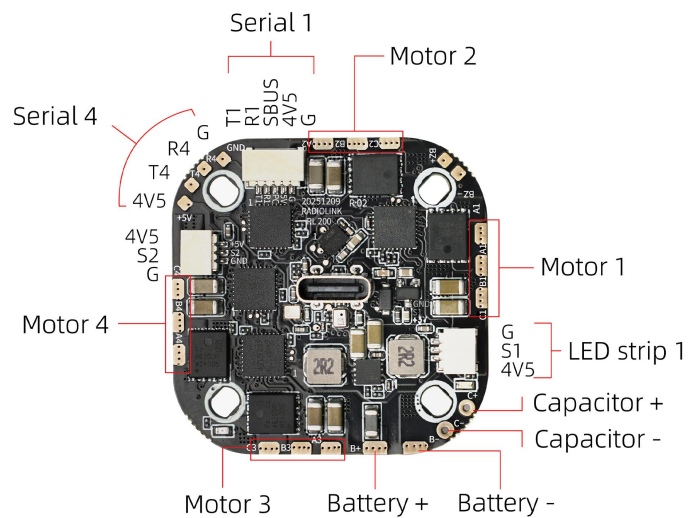
Accelerometer calibration has been done by factory default. You can fly it directly without calibration. If you have dismantled the frame or the flight controller, you need to calibrate the accelerometer. The installation direction of the flight controller must be the same as the factory installation direction, otherwise it will be out of control after arming. Please disconnect the power battery during accelerometer calibration, and power on the flight controller with a Type-C cable. Here are the steps of accelerometer calibration:

Connects the flight controller to the computer via a Type\_C cable. Open Betaflight Configurator. Click CONNECT on the upper right corner. After the connection, click Setup--Calibrate Accelerometer.

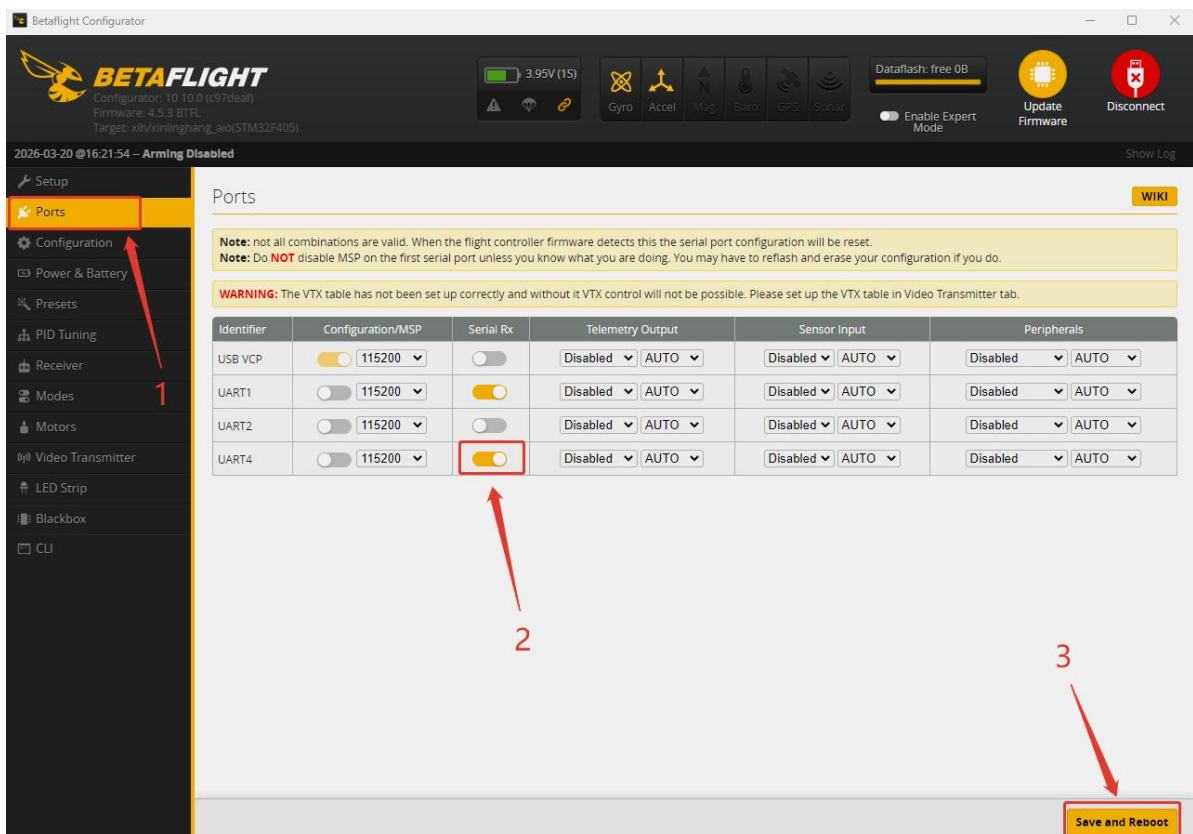
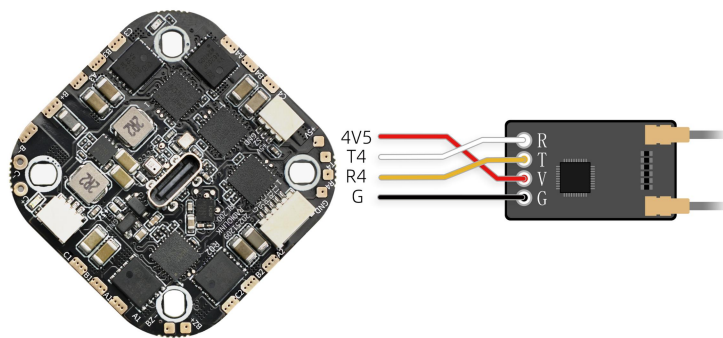


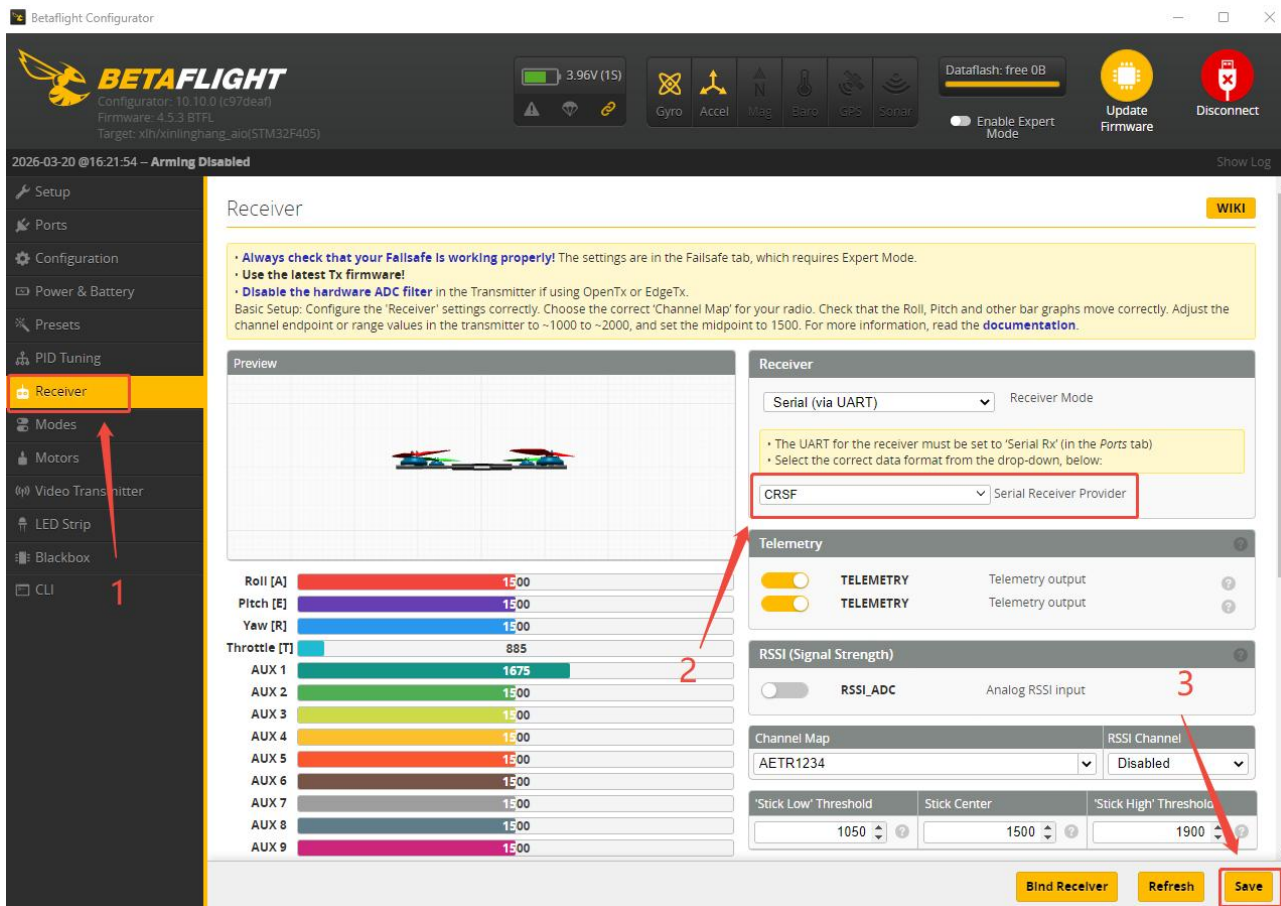
## 12. The Receiver Connection for LD-B20 PNP

For LD-B20 PNP version, users need to prepare the transmitter and receiver. The receiver needs to connect to the flight controller. Here is the socket introduction of the flight controller of LD-B20:



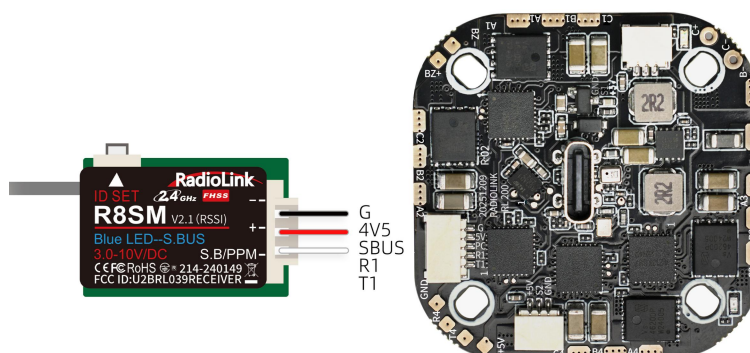
If ELRS receiver is used with LD-B20, you can solder ELRS receiver to the serial 4 pad on the flight controller (as shown below). Please connect the flight controller to Betaflight Configurator. After the connection, click Ports, turn on the Serial RX of UART4 and click Save and Reboot. Then click Receiver, set CRSF for Serial Receiver Provider, and save the modifications. The steps are shown below:





If SBUS receiver is used with LD-B20, please connect SBUS receiver to the SBUS signal port of the flight controller (as shown below. RadioLink R8SM receiver is used as an example).

Connect the flight controller to Betaflight Configurator. After the connection, click Ports, turn on the Serial RX of UART2 and click Save and Reboot. Then click Receiver, set SBUS for Serial Receiver Provider, and save the modifications. The steps are shown below:



Betaflight Configurator

**BETAFLIGHT**  
Configurator: 10.10.0 (c97deaf)  
Firmware: 4.5.3 BTFL  
Target: xih/xinlinghang\_alio(STM32F405)

2026-03-20 @16:21:54 – Arming Disabled

Setup

**Ports**

Configuration  
Power & Battery  
Presets  
PID Tuning  
Receiver  
Modes  
Motors  
Video Transmitter  
LED Strip  
Blackbox  
CLI

Ports

**Note:** not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
**Note:** Do **NOT** disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

**WARNING:** The VTX table has not been set up correctly and without it VTX control will not be possible. Please set up the VTX table in Video Transmitter tab.

| Identifier | Configuration/MSP                          | Serial Rx                           | Telemetry Output | Sensor Input  | Peripherals   |
|------------|--------------------------------------------|-------------------------------------|------------------|---------------|---------------|
| USB VCP    | <input checked="" type="checkbox"/> 115200 | <input type="checkbox"/>            | Disabled AUTO    | Disabled AUTO | Disabled AUTO |
| UART1      | <input type="checkbox"/> 115200            | <input checked="" type="checkbox"/> | Disabled AUTO    | Disabled AUTO | Disabled AUTO |
| UART2      | <input type="checkbox"/> 115200            | <input checked="" type="checkbox"/> | Disabled AUTO    | Disabled AUTO | Disabled AUTO |
| UART4      | <input type="checkbox"/> 115200            | <input type="checkbox"/>            | Disabled AUTO    | Disabled AUTO | Disabled AUTO |

Save and Reboot

Betaflight Configurator

**BETAFLIGHT**  
Configurator: 10.10.0 (c97deaf)  
Firmware: 4.5.3 BTFL  
Target: xih/xinlinghang\_alio(STM32F405)

2026-03-20 @16:21:54 – Arming Disabled

Setup

Ports

**Configuration**

Power & Battery  
Presets  
PID Tuning  
Receiver  
Modes  
Motors  
Video Transmitter  
LED Strip  
Blackbox  
CLI

Receiver

**Always check that your Failsafe is working properly!** The settings are in the Failsafe tab, which requires Expert Mode.  
**Use the latest Tx firmware!**  
**Disable the hardware ADC filter** in the Transmitter if using OpenTx or EdgeTx.  
Basic Setup: Configure the 'Receiver' settings correctly. Choose the correct 'Channel Map' for your radio. Check that the Roll, Pitch and other bar graphs move correctly. Adjust the channel endpoint or range values in the transmitter to ~1000 to ~2000, and set the midpoint to 1500. For more information, read the [documentation](#).

Preview

Roll [A] 1500  
Pitch [E] 1500  
Yaw [R] 1500  
Throttle [T] 885  
AUX 1 1675  
AUX 2 1500  
AUX 3 1500  
AUX 4 1500  
AUX 5 1500  
AUX 6 1500  
AUX 7 1500  
AUX 8 1500  
AUX 9 1500

Receiver

Serial (via UART) Receiver Mode

The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)  
Select the correct data format from the drop-down, below:

SBUS Serial Receiver Provider

Telemetry

TELEMETRY Telemetry output  
TELEMETRY Telemetry output

RSSI (Signal Strength)

RSSI\_ADC Analog RSSI input

Channel Map RSSI Channel  
AETR1234 Disabled

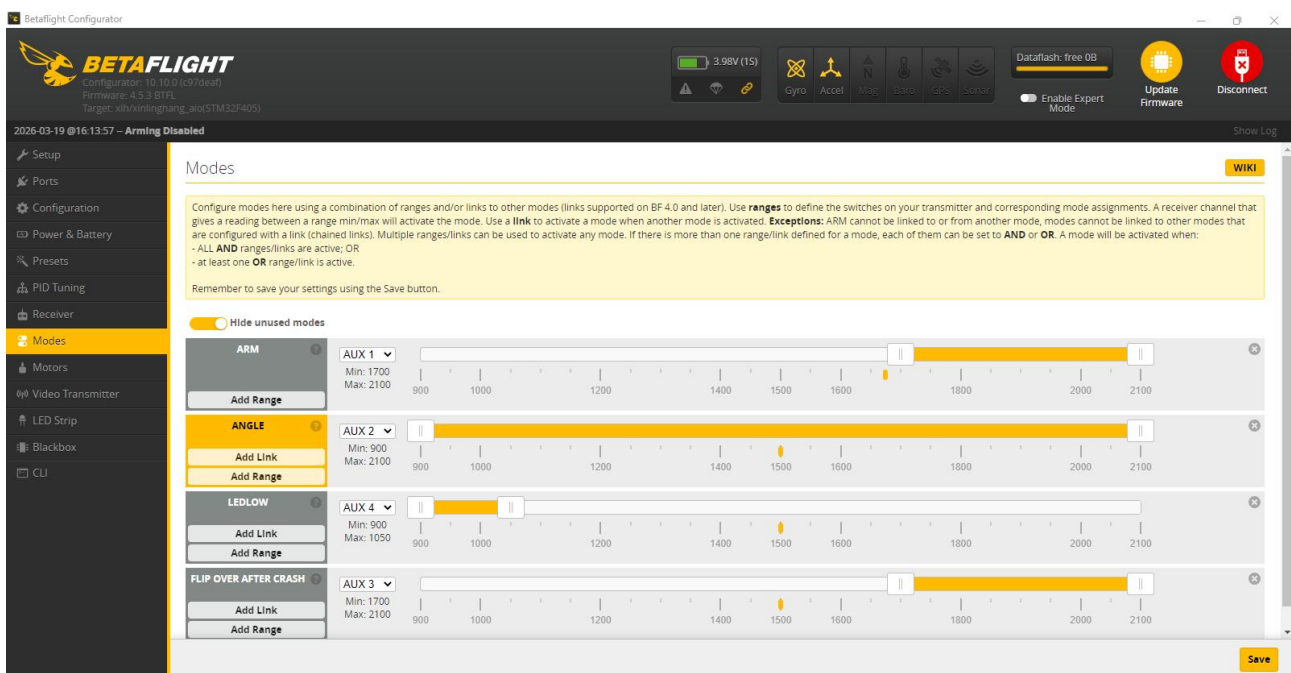
Stick Low Threshold Stick Center Stick High Threshold  
1050 1500 900

Bind Receiver Refresh Save and Reboot

## 13. Mode Setting

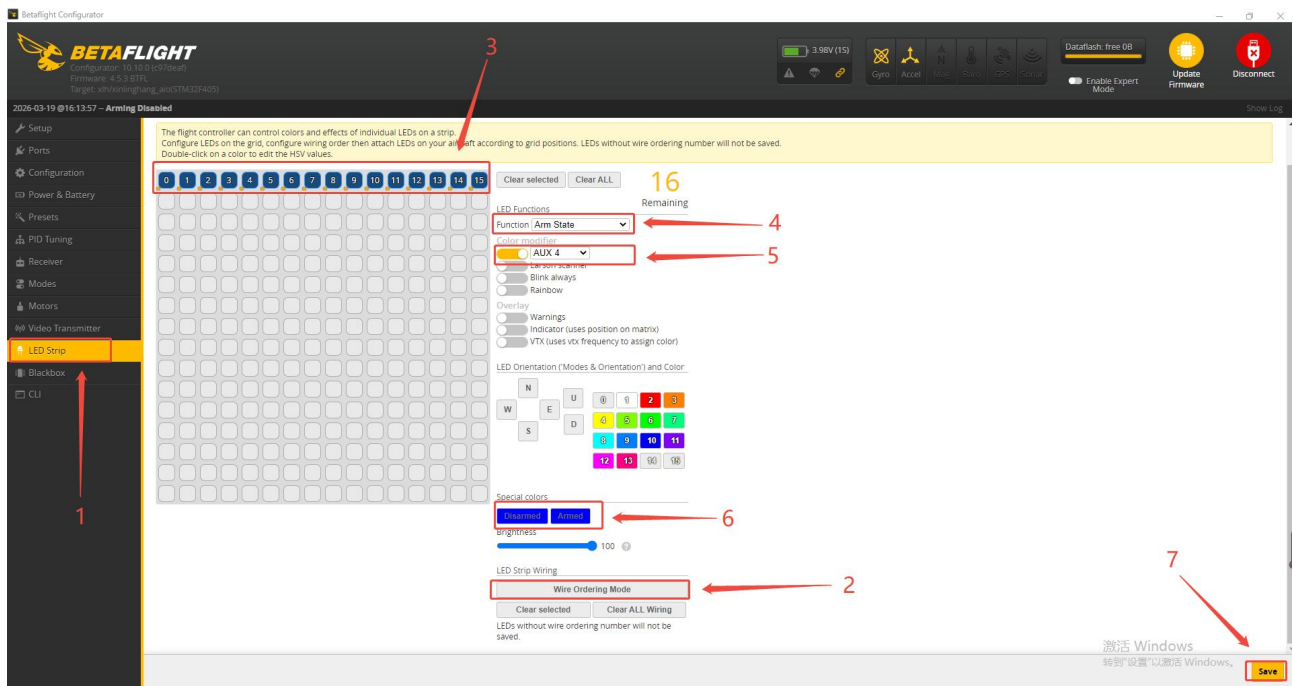
Click Mode on Betaflight Configurator to set the common functions of the flight controller by using the channels 5 through 12 (or even more). You can configure modes here using a combination of ranges and/or links to other modes. Use ranges to define the switches on your transmitter and corresponding mode assignments. A receiver channel that gives a reading between a range min/max will activate the mode. Use a link to activate a mode when another mode is activated. Exceptions: ARM cannot be linked to or from another mode. Multiple ranges/links can be used to activate any mode. If there is more than one range/link defined for a mode, each of them can be set to AND or OR. A mode will be activated when: All AND ranges/links are active; or at least one OR range/link is active. Remember to save your settings using the Save button.

For example, you can assign a knob switch as the "LEDLOW" (lighting) switch, so that the switch of the 7 colors can be achieved. Set the option within the box on the right to "Auto." Then turn the knob so it will be recognized automatically as the LED lighting switch. The yellow link indicates the LED light is turned off.



## 14. LED Strip Setting

LD-B20 comes with a LED strip, which is connected to the 3 pin connector near the motor 1. You can set the LED strip. Click LED Strip--Select Wire Ordering Mode--Select the 16 LEDs--Set Arm State for Function--Select the same switch used for LEDLOW (light switch)--Set blue color for Disarmed and Armed--Click Save to save the modifications.



## 15. Troubleshooting

| Problems                                                  | Solutions                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unable to arm the drone.                                  | <p>Check whether the throttle stick is in the lowest position.</p> <p>Check if the drone is in turtle mode.</p> <p>Check whether the servo value when the joystick is moved to its lowest and leftmost positions falls below the minimum threshold.</p> <p>Check where the channel 2 of T12D is reversed. Please enter Basic menu--REVERSE, and set CH2 to REV.</p> |
| The aircraft rolls after taking off.                      | The propellers or motors may be installed in wrong direction. Please adjust them and try again.                                                                                                                                                                                                                                                                     |
| There is an abnormal sound after the aircraft is armed.   | Arm the drone and turn the propeller by hand to check whether there are any objects or parts interfering with the propeller. Remove the objects.                                                                                                                                                                                                                    |
| The aircraft shakes after it is armed.                    | Check whether the propeller is intact. If not, please replace the propeller.                                                                                                                                                                                                                                                                                        |
| The aircraft sways after takeoff.                         | <p>Check whether the propeller is intact. If not, please replace the propeller.</p> <p>Connect the flight controller to Betaflight Configurator and calibration the accelerometer.</p>                                                                                                                                                                              |
| After taking off, the aircraft deflects in one direction. | Turn the trim button to set the trim value to 0. For more details, please refer to the manual of the transmitter.                                                                                                                                                                                                                                                   |

**Thank you again for choosing RadioLink products.**