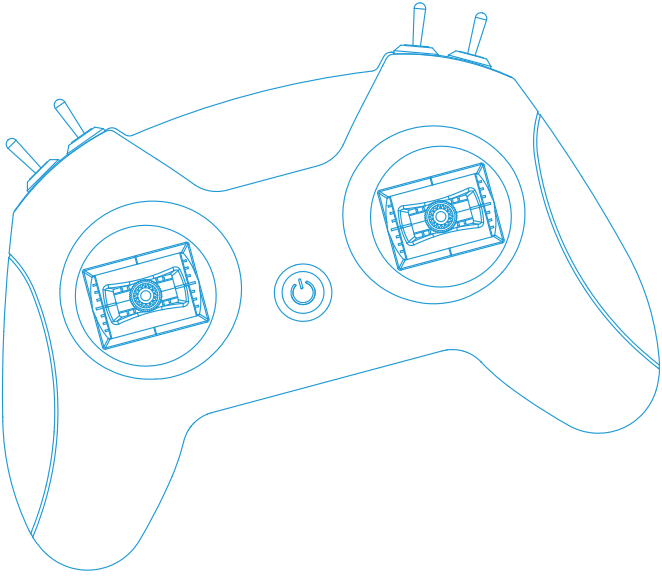
BETAFPV



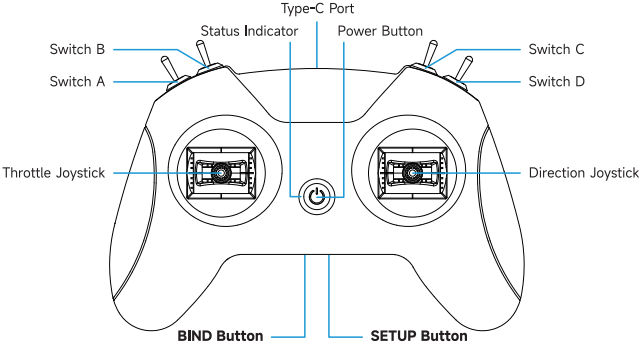
LiteRadio 2 SE Radio Transmitter

BETAFPV Configurator Supported

Version No.IV 2026-09-21

The LiteRadio 2 SE radio transmitter is a model transmitter designed for the entry-level market. Since its release in 2020, it has become one of the most popular transmitters among model enthusiasts.

The front view of the LiteRadio 2 SE transmitter is shown in the image below.



1. Button Functions

The remote control radio transmitter has three buttons, with the following functions:
- Power Button: Long Press to turn the remote control radio transmitter on or off.
- BIND Button: When the remote control radio transmitter is powered on, long press to enter bind mode.
- SETUP Button: When the remote control radio transmitter is powered on, long press to enter joystick calibration mode.

2. Power on/off

- Power On: When the remote control radio transmitter is off, long press the Power Button for 3 seconds until you hear three beeps (“do re mi”). The red LED will light up, then turn solid blue, indicating the remote control radio transmitter has powered on successfully.
- Power Off: When the remote control radio transmitter is on, long press the Power Button for 3 seconds until you hear three beeps (“mi re do”). The red LED will flash rapidly, indicating the remote control radio transmitter has powered off successfully.

3. LED Indicator Light and Buzzer

There is an RGB LED indicator light below the power button on the remote control radio transmitter, which is used to indicate the common status of the remote control radio transmitter.

LED Indicator	Description	Solution
Red light solid on	Throttle Joystick is not at the lowest position when powering on	Move the throttle joystick to the lowest position
Red light flashing rapidly	Binding	Bind successfully
Red light flashing slowly	Low battery voltage	Charge the remote control radio transmitter
Red light flashing gradually	Charging	
Green light flashing gradually	Finish Charging	

The remote control radio transmitter has a buzzer. When it beeps twice, it indicates the battery is low and needs to be charged.

4. Frequency Binding with Receivers

1. Power on the remote control radio transmitter, ensure the blue LED light is solid on.
2. Put the receiver into binding mode, and wait for it to bind with the remote control radio transmitter.
3. Long press the BIND button at the bottom of the remote control radio transmitter. The front light will flash red, indicating the transmitter has entered binding state and this state lasts for up to 8 seconds..
4. After 8 seconds, the remote control radio transmitter will automatically exit binding mode, and the LED will return to solid blue. Check whether the remote control radio transmitter has successfully bound with the receiver. If not, repeat step 3.

Bind Status	LED indicator	Buzzer	Description
Binding	Red light flashes for 8 seconds	Accompanied by the sound of "beep beep"	Binding for 8 seconds
Binding complete	No	"Beep" (one short and one long)	Binding complete
Disconnection warning	No	"Beep" (one long and one short)	The receiver connection is interrupted and needs to be reconnected/bind

5. Remote Controller Protocol Viewing and Switching

Note: This section only applies to the CC2500 version remote control radio transmitter. Remote control radio transmitter using the Bayang protocol and ExpressLRS protocol can't be switched.

With the remote control radio transmitter powered off, press the power button to turn it on. Before the beep sound, you will see the red light flashing. The number of flashes indicates the current protocol type, as shown below:

Red light flashing times	Protocol
Flashes one time	Frsky D16 FCC (ACCST 1.X Version)
Flashes two times	Frsky D16 LBT (ACCST 1.X Version)
Flashes three times	Frsky D8
Flashes four times	Futaba S-FHSS

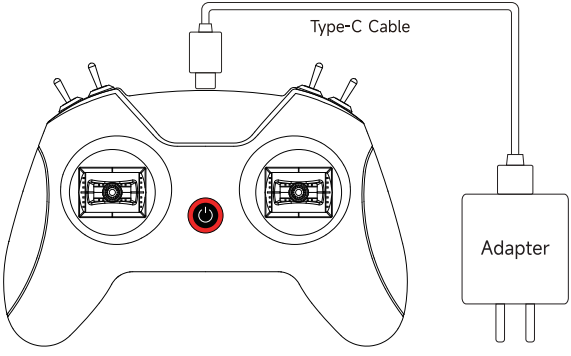
How to switch protocols:
With the remote control radio transmitter powered off, long press the BIND button at the bottom of the remote control radio transmitter while simultaneously pressing the power button to turn it on. The number of times the red light flashes will change. Once the red light finishes flashing, the protocol switch is successful. The number of flashes indicates the protocol version for the next power-on.

Note: LiteRadio 2 SE only supports the D16 ACCST 1.X protocol. If using a Frsky official receiver that uses the D16 ACCST 2.X or ACCESS protocol,then it can't be binded.

6. Low Battery Alert and Charging

The remote control radio transmitter has a built-in 1000mAh battery, and no external batteries are needed. When the red light flashes twice and the buzzer beeps twice, it indicates that the remote control radio transmitter battery is low and needs to be charged. The charging method is as follows:

- Turn off the remote control radio transmitter;
- Connect the remote control radio transmitter and adapter using a USB cable (Any adapter with a 5V output is sufficient, for example, a phone charger);
- A gradually flashing red light indicates that the remote control radio transmitter is charging and a gradually flashing green light indicates that it finishes charging.



A fully charged battery provides approximately 8 hours of continuous use. When the battery is fully charged and the remote control radio transmitter is turned off and unused, it can maintain approximately 80% battery capacity for up to 30 days.

7. Connecting to a Simulator

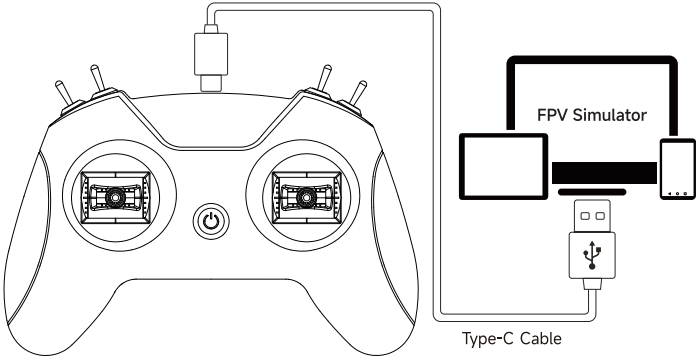
The LiteRadio 2 SE remote control radio transmitter can connect to computers, mobile phones, and tablets to play FPV simulators or DJI Virtual Flight.

Simulator Type	Supported Systems	Connection
Mainstream FPV simulators	Windows, Android	Method 1: USB cable (JoyStick mode)
FPV simulators supporting Xbox	Windows, Android	Method 2: USB cable (Xbox mode)
DJI Virtual Flight	Windows	Method 2: USB cable (Xbox mode)
	Android	Method 1: USB cable (JoyStick mode)

Note:
To connect the LiteRadio 2 SE remote control radio transmitter to DJI Virtual Flight software (simulator), the firmware version must be upgraded to V24.11.8 or above.

7.1 Solution 1: Data Cable JoyStick Mode

The JoyStick mode, which connects via data cable, is compatible with Windows computers, as well as Android phones and tablets.

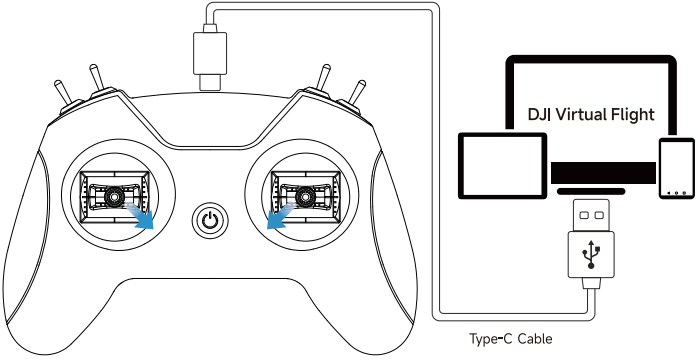


● Turn off the radio transmitter.
● Use a USB data cable to connect the radio transmitter and computer.
● The LiteRadio 2 SE remote control radio transmitter will then be recognized as a "BETAFPV Joystick".

Note: In the power-on state, there is no signal output from the USB of the radio transmitter, and the joystick mode can't be used.

7.2 Solution 2: Data Cable Xbox Mode

It is compatible with Windows PCs, as well as Android phones and tablets, via Xbox connection using a data cable.

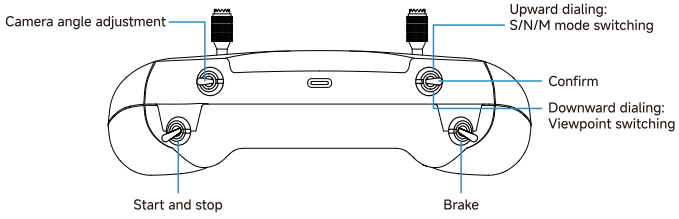


● Turn off the radio transmitter;
● At the same time, turn the left joystick to the lower right corner and the right joystick to the lower left corner, at this time, use the USB cable to connect the radio transmitter to the computer, the status indicator will flash white lights 3 times, indicating that it has successfully entered the Xbox mode;
● The LiteRadio 2 SE remote control radio transmitter will now be recognized as a "BETAFPV Joystick".

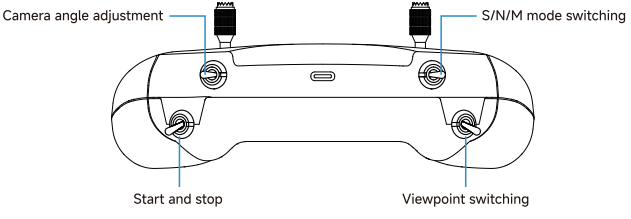
Note:
There is no signal output from the USB of the radio transmitter in the power-on state, and Xbox mode can't be used.
After connecting to Xbox mode under Windows system, if you find that the cursor moves, please move the three-segment switches to the middle position and the two-segment switches to the bottom position.

7.3 DJI Virtual Flight Default Button Functions

- Windows operating system (Xbox mode via data cable)



- Android operating system (data cable JoyStick mode)



7.4 Setting up the CC2500 Remote Control Radio Transmitter using an Simulator on an Android System

Note: To use the CC2500 remote control radio transmitter with an Android simulator, you need to swap the SA and SC switch channels in the BETAFPV Configurator first, otherwise, abnormal lens angle and viewpoint switching will occur in the simulator.

In the BETAFPV Configurator software, change the channel input order of the CC2500 version remote control (pay attention to the SA and SC positions) to match the illustrated state, and save the settings.

Default order:

Channel	Import
CH1	Pitch(E)
CH2	Roll(A)
CH3	Throttle(T)
CH4	Yaw(R)
CH5	SA
CH6	SB
CH7	SC
CH8	SD

Channel order of the Frsky (CC2500) remote control radio transmitter when using a simulator on an Android system.

Channel	Import
CH1	Pitch(E)
CH2	Roll(A)
CH3	Throttle(T)
CH4	Yaw(R)
CH5	SC
CH6	SB
CH7	SA
CH8	SD

Note: When you are going to use the remote control radio transmitter to fly a quadcopter , please set it back to the default order!

8. Joystick Calibration

After using the remote control radio transmitter for a period of time, for example if the joysticks experience a strong physical impact, the joystick values may become offset. In this case, you can calibrate the joysticks to ensure their values are centered.

1. With the transmitter powered on, long press the SETUP button at the bottom of the remote control radio transmitter. Wait until the buzzer emits continuous beeps (two times) and the red LED flashes rapidly (twice per flash), indicating that the transmitter has entered calibration mode.
2. Move both joysticks to the center position, then press the SETUP button again. Wait until the buzzer emits continuous triple beeps (three times) and the red LED flashes rapidly (twice per flash), indicating that the joystick center values have been calibrated and the boundary calibration mode has started.
3. Move the joysticks to their maximum positions: up, down, left, and right (do not press forcefully and simply reach the boundary). Hold each position for 1–2 seconds. After completing all directions, press the SETUP button again. You will hear a long beep (about 3 seconds) and the red LED will stop flashing, indicating that joystick calibration is complete.

9. BETAFPV Configurator Use

BETAFPV Configurator can be used to configure parameters and upgrade firmware for flight controllers or remote control radio transmitter.
Download: https://github.com/BETAFPV/BETAFPV_Configurator/releases

Configuration Specifications

- Power off the remote control radio transmitter;
- Connect the remote control radio transmitter to the computer using a USB cable. The LED light will change to a red or green light will flash gradually, indicating that the remote control radio transmitter is recognized as an HID device;
- Open BETAFPV Configurator and switch to the Remote Control Radio Transmitter Configuration page;
- Click the "Connect Remote Control Radio Transmitter" button at the top right to enter the parameter settings page.

Note: When the remote control radio transmitter is powered on and connected to the computer, there is no signal output from the USB port, and the BETAFPV Configurator can't be used.

Specifications

- Switch the joystick mode (For example: Mode1, Mode2);
- Configure the RF module (enable/disable built-in or external RF modules);
- Configure ExpressLRS system parameters (only applicable when the RF module uses the ExpressLRS system);
- Adjust channel mixing, trims, and other settings.

10. Compliance Information

LiteRadio 2 SE Radio Transmitter

Model: LiteRadio 2 SE CC2500
FCC ID: 2AT6XLITERADIO2

Model: LiteRadio 2 SE ELRS
FCC ID: 2AT6X-LITERADIO2E

10.1 FCC statements

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. This product has also been tested against this SAR limit.
To maintain compliance with FCC RF exposure requirements, the use of belt clips, holsters, and similar accessories should not contain metallic components in their assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements and should be avoided.

10.2 EU Declaration of Conformity

Hereby, Shenzhen Baida Moxing Co., Ltd. declares that the radio equipment LiteRadio 2 SE Radio Transmitter is in compliance with directive 2014/53/EU.
The full text of the EU Declaration of Conformity is available at the following internet address: https://support.betafpv.com/hc/en-us

Operation Frequency & output power

2.4GHz: E.I.R.P.<20dBm Max.

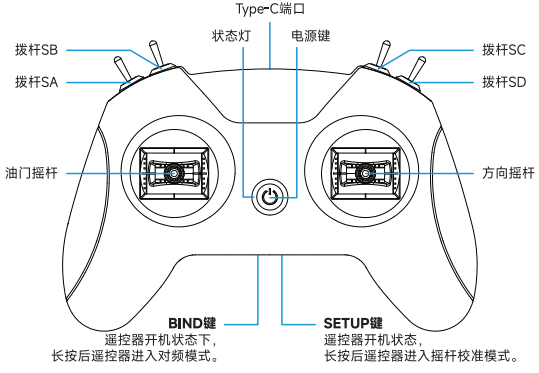
Specific Absorption Rate (SAR)

- Your device is tested to comply with applicable requirements and regulations of the European Union of human exposure to radio wave.
- Specific Absorption Rate (SAR) is used to measure radio waves absorbed by a body. The device complies with RF specifications when the device used at a distance of 0 mm from your body. The SAR limit is 2.0 W/kg averaged over 10 gram of tissue in the European Union.
- LiteRadio 2 SE CC2500 was tested and recorded the maximum SAR value was 0.554 W/kg for the body.
- LiteRadio 2 SE ELRS was tested and recorded the maximum SAR value was 0.477 W/kg for the body.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

LiteRadio 2 SE遥控器是针对入门市场的一款模型遥控器。该遥控器从2020年发布以来，成为深受广大模型爱好者喜欢的手柄遥控器之一。

LiteRadio 2 SE遥控器正面如下图所示。



1. 按键功能介绍

遥控器上有3个按键，其功能如下：
- 开机键：长按开机/关机。
- BIND键：遥控器开机状态，长按后遥控器进入对频模式。
- SETUP键：遥控器开机状态，长按后遥控器进入摇杆校准模式。

2. 开机/关机

- 关机状态下，长按遥控器电源键3秒，直至听到蜂鸣器发出三声响（do re mi），同时红色LED灯亮起，然后变成蓝色常亮，遥控器开机成功。
- 开机状态下，长按遥控器电源键3秒，直到听到蜂鸣器发出三声响（mi re do），同时红色LED灯快速闪烁，遥控器关机成功。

3. LED提示灯和提示音

遥控器开关按键下有一颗RGB LED提示灯，用于提示遥控器的常见状态。

指示灯状态	状态说明	解决办法
红色常亮	开机时油门杆不在最低位	将油门杆拨到最低位
红灯快闪	处于对频过程中	等待对频完成
红色慢闪	电池电压过低	给遥控器充电
红灯渐变闪烁	充电中	
绿灯渐变闪烁	充电完成	

遥控器内置了一个蜂鸣器，当它“滴滴”两声时，说明电量过低，需要给遥控器充电。

4. 遥控器绑定接收机

1. 遥控器开机，确保LED灯环处于蓝色常亮；
2. 使接收机进入对频状态，等待与遥控器对频；
3. 长按下遥控器底部的BIND按键，遥控器正面的LED灯会呈现红色闪烁，此时遥控器进入时间为8秒的对频状态；
4. 8秒之后遥控器自动退出对频状态，LED灯变为蓝色常亮，检查遥控器是否对上接收机；如果没有，请重复上面第3步操作。

对频状态	指示灯	蜂鸣器	状态说明
对频中	持续8秒的红灯闪烁	伴随“滴滴”声	对频过程中，8秒的对频状态
连接成功提示	无	“滴滴”声 (一短一长)	接收机连接成功
连接中断警示	无	“滴滴”声 (一长一短)	接收机连接中断， 需要重新连接/对频

5. 遥控器协议查看与切换

注意：本章节只适用于CC2500版本遥控器。Bayang协议的遥控器，ExpressLRS协议遥控器，协议不可以切换。

关机状态下，按电源键开机，在BB响发出声音之前，可以看到红灯闪烁，闪烁次数代表当前协议类型，具体如下：

红灯闪烁次数	协议版本
闪烁一次	Frsky D16 FCC（ACCST 1.X 版本）
闪烁两次	Frsky D16 LBT（ACCST 1.X 版本）
闪烁三次	Frsky D8
闪烁四次	Futaba S-FHSS

如何切换协议：
在关机状态下，先按住遥控器背面的BIND按键，同时 按电源键开机，此时红色LED灯

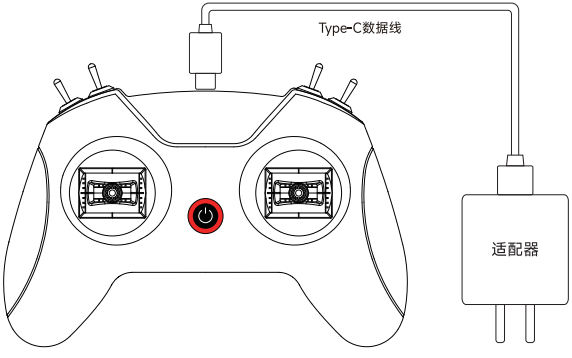
闪烁次数将发生变化，红灯闪烁完毕协议即切换成功，其闪烁次数表示下次开机的协议版本。

注意：LiteRadio 2 SE只能够支持D16 ACCST 1.X版本的协议。如果使用Frsky官方接收机，且该接收机为D16 ACCST 2.X或者ACCESS协议，则无法对频连接使用。

6. 低电量警报及充电

遥控器已经内置了1000mAh的电池，无需再外接电池。当红灯闪烁两次，同时蜂鸣器“滴滴”两声，表示遥控器电池电量较低，需要重新充电。充电方式如下：

- 关闭遥控器；
- 使用USB线连接遥控器和适配器（5V输出的适配器即可，例如手机充电器）；
- 红灯渐变闪烁，表示正在充电中；绿灯渐变闪烁，表示充电结束。



电池充满，可以连续使用 8小时左右；
电池充满，关机放置，可以保证 30天电池电量仍保持在80%左右。

7. 连接模拟器

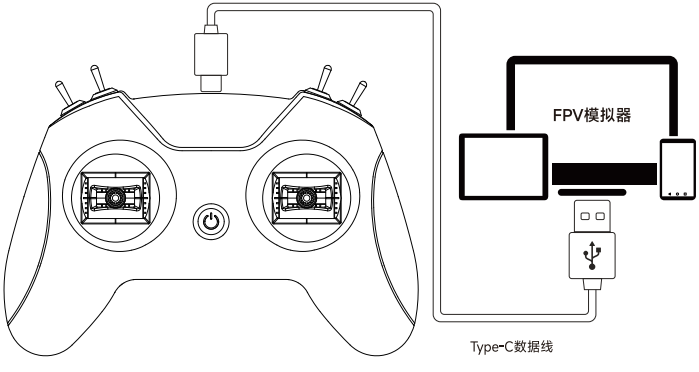
LiteRadio 2 SE遥控器可以连接电脑、手机和平板，用来练习FPV模拟器或大疆虚拟飞行。

模拟器类型	支持系统类型	连接方式
主流FPV模拟器	Windows, Android	方式一：数据线JoyStick模式
支持Xbox的FPV模拟器	Windows, Android	方式二：数据线Xbox模式
大疆虚拟飞行	Windows	方式二：数据线Xbox模式
	Android	方式一：数据线JoyStick模式

注意：
LiteRadio 2 SE遥控器连接大疆虚拟飞行软件（模拟器）必须将固件版本升级为V24.11.8及以上固件。

7.1 方式一：数据线JoyStick模式

以数据线连接的JoyStick模式兼容Windows的电脑，以及Android系统的手机和平板。

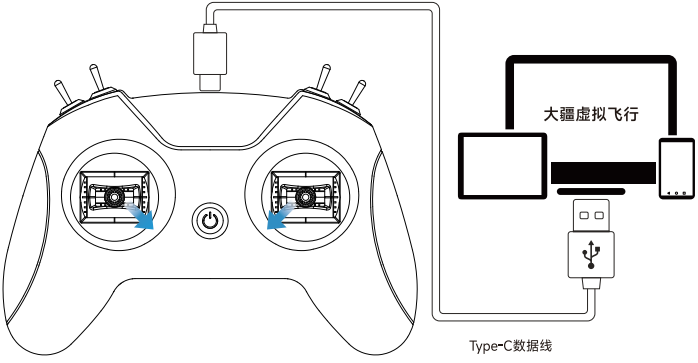


- 关闭遥控器；
- 使用USB数据线连接遥控器和电脑即可；
- 此时LiteRadio 2 SE遥控器可被识别为“BETAFPV Joystick”。

注意：在开机状态下，遥控器的USB没有信号输出，无法使用JoyStick模式。

7.2 方式二：数据线Xbox模式

以数据线Xbox连接的模式兼容Windows的电脑，以及Android系统的手机和平板。

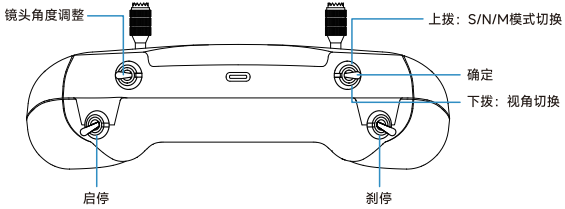


- 关闭遥控器；
- 同时将左侧摇杆拨到右下角，右侧摇杆拨到左下角，此时使用USB数据线将遥控器连接到电脑、手机或平板，状态灯白色快闪3次，表明进入Xbox模式成功；
- 此时LiteRadio 2 SE遥控器可被识别为“BETAFPV Joystick”。

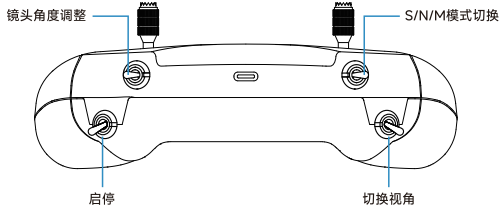
注意：
在开机状态下，遥控器的USB没有信号输出，无法使用Xbox模式；
在Windows系统下连接Xbox模式后，如果发现光标移动，请将遥控器的三段拨杆拨至中间位置、两段拨杆拨至下边位置。

7.3 大疆虚拟飞行默认按键功能

- Windows操作系统（数据线Xbox模式）



- 安卓操作系统（数据线JoyStick模式）



7.4 CC2500版本遥控器在Android系统下使用模拟器设置方式

注意：CC2500版本遥控器在Android系统下使用模拟器需要先在BETAFPV Configurator上位机中将SA与SC开关通道互换设置，否则在模拟器内会出现镜头角度切换与视角切换异常。

在BETAFPV Configurator软件中，将CC2500版本遥控器的通道输入顺序（注意SA、SC位置）改成图示状态并保存。

默认顺序：

通道	输入
CH1	Pitch(E)
CH2	Roll(A)
CH3	Throttle(T)
CH4	Yaw(R)
CH5	SA
CH6	SB
CH7	SC
CH8	SD

Frsky（CC2500）遥控器在Android系统下使用模拟器的通道顺序：

通道	输入
CH1	Pitch(E)
CH2	Roll(A)
CH3	Throttle(T)
CH4	Yaw(R)
CH5	SC
CH6	SB
CH7	SA
CH8	SD

注意：需要进行真机飞行时，请设置回默认顺序！

8. 摇杆校准

遥控器在使用一段时间之后，例如摇杆受到较重的物理撞击，可能会出现摇杆值发生偏移的情况。这个时候可以通过校准摇杆值，确保其摇杆值处于中位。

1. 在开机状态下，长按遥控器底部的SETUP按键，待听到蜂鸣器持续的发出滴滴声（2声），同时红色LED快速闪烁（每次闪烁两下），表示进入校准模式。
2. 将两边的摇杆都移动至中间位置，再次按一下SETUP按键，待蜂鸣器持续发出滴滴滴声（3声），同时红色LED灯快速闪烁（每次闪烁两下），表示摇杆中值已经校准完毕，并进入边界值校准。
3. 拨动摇杆，分别移动到正上、正下、正左、正右摇杆边界，（注意不要刻意大力按压，摇杆接触到边界即可）并在边界处停留1-2S，完成后再次按下SETUP键，再听到蜂鸣器发出一声长时间滴声（大概3秒），且红色LED灯停止闪烁，表示摇杆校准完毕。

校准状态	指示灯	蜂鸣器	状态说明
校准中点	状态灯红色快闪2次	伴随“滴滴”声	进入摇杆校准状态，将所有摇杆拨到中间位置以设定中点
校准边界	状态灯红色快闪3次	伴随“滴滴滴”声	将摇杆轻轻拨到上下左右四个边界，以设定摇杆的最大范围
校准成功提示	状态灯红色快闪2次	伴随“滴滴”声(一短一长)	摇杆校准成功

9. BETAFPV Configurator基本使用

BETAFPV Configurator可以用来对飞控或者遥控器进行参数配置，固件升级。

下载地址：https://github.com/BETAFPV/BETAFPV_Configurator/releases

配置参数

- 遥控器关机；
- 用USB数据线将遥控器连接到电脑，LED灯变为红色或绿色渐变闪烁，遥控器被识别为HID设备；
- 打开BETAFPV Configurator，切换到遥控器配置程序页面；
- 点击右上角“连接遥控器”按钮，进入遥控器参数设置页面。

注意：遥控器开机状态下连接到电脑，USB口无信号输出，无法使用BETAFPV Configurator。

配置内容

- 切换摇杆模式（即日本手、美国手）；
- 射频模块的配置（开启关闭内置、外置射频模块）；
- ExpressLRS系统参数配置（射频模块为ExpressLRS系统时有效）；
- 各通道的混控，微调等切换。

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