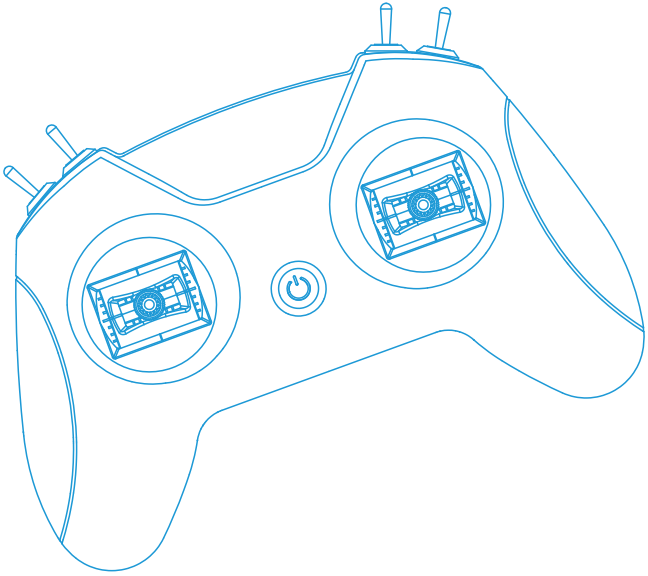
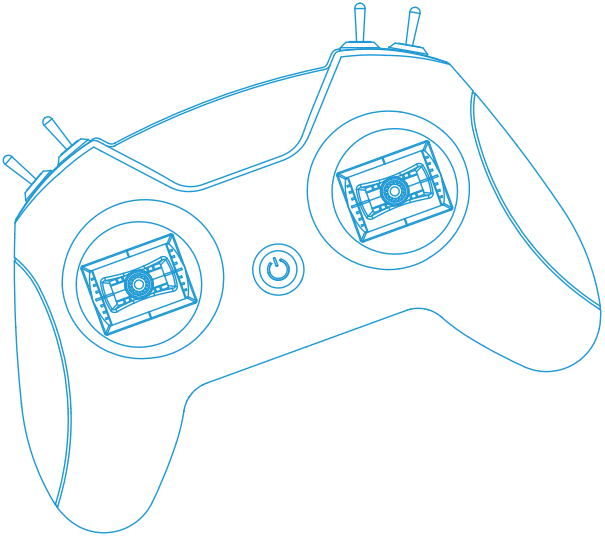
BETAFPV



LiteRadio 2 SIM Remote Controller

Version No.I 2025-07-07

LiteRadio 2 SIM is a brand-new simulator remote controller from BETAFPV. It supports multiple mainstream FPV/Model Airplane simulators and DJI Virtual Flight, is compatible with multiple systems, and meets the flight simulation training needs of people from beginners to advanced.



1. Product Profile

1.1 Feature

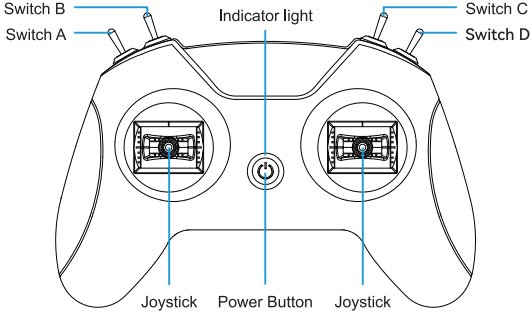
- Utilizes BETAFPV's latest LiteRadio remote controller system;
- Have 8 output channels, 4 of the channels are custom switches;
- Synchronize with the LiteRadio series remote controller, and upgrade high-precision and long-life joysticks;
- Support mainstream FPV/Model Airplane simulators and DJI Virtual Flight;
- Compatible with multiple systems such as Windows, MacOS, and Android;
- Plugged and played without battery.

1.2 Specification

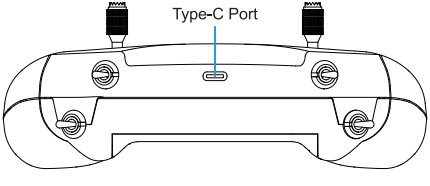
- Product model: LiteRadio 2 SIM
- Working Current: 30mA/5V
- Output interface: Type-C USB
- Power supply type: USB interface power supply
- Working environment temperature: -10℃ to 40℃
- Product weight: about 150g
- Dimensions: 64.5mm*115.3mm*164.6mm

1.3 Appearance

The front of the LiteRadio 2 SIM remote controller is as shown below.



The top of the LiteRadio 2 SIM remote controller is as shown below.



2. Power On/Off

● Connect the remote controller to the computer with a Type-C data cable, the LiteRadio 2 SIM remote controller powers on, and the indicator light turns green;
● Disconnect the remote controller from the computer, and the LiteRadio 2 SIM remote controller powers off.

3. Indicator Light Switch

When the LiteRadio 2 SIM remote controller is in the power-on state, short-press the power button to turn the indicator light off or on.

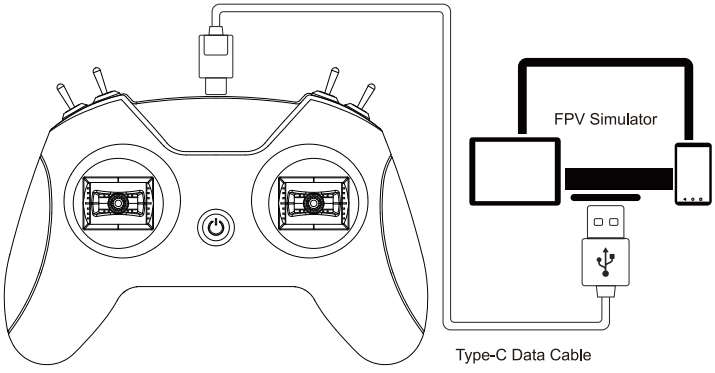
4. Connect to Simulator

The LiteRadio 2 SIM remote controller can be connected to a computer, mobile phone, or tablet to practice FPV/Model Airplane Simulators or DJI Virtual Flight.

The LiteRadio 2 SIM remote controller supports the following simulators and their corresponding connection methods:

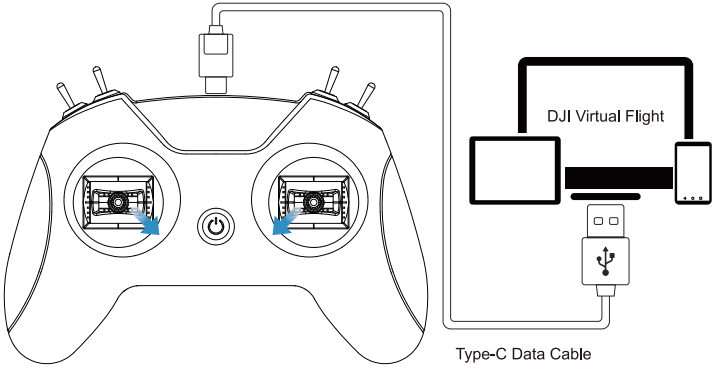
Simulator Name	Connection Method
VelociDrone / UNCRASHED / DRL / DCL / LIFTOFF / TryPFPV / FeelFPV / FPV Freerider / Lingdong Simulator / Simulators of STEAM	JoyStick Mode
Aerofly RC 8 / DJI Virtual Flight	Xbox Mode
PhoenixRC 6.0	Dongle Mode

4.1 Method 1: JoyStick Mode



● Connect the remote controller to a computer, mobile phone, or tablet with a Type-C data cable;
● At this time, the LiteRadio 2 SIM remote controller can be recognized as "BETAFPV Joystick".

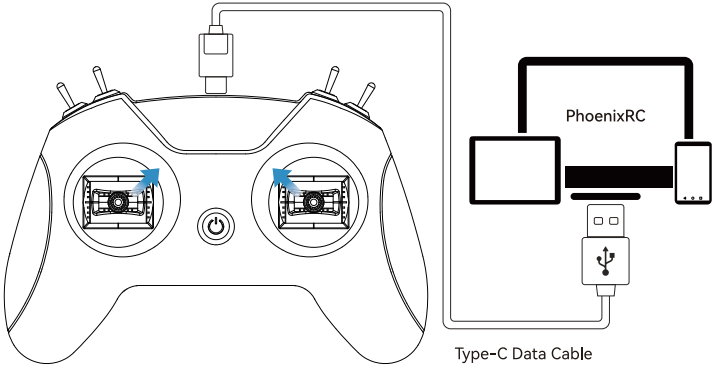
4.2 Method 2: Xbox Mode



● At the same time, move the left joystick to the lower right corner and the right joystick to the lower left corner, then connect the remote controller to the computer with a Type-C data cable, and the indicator light flashes white quickly 3 times, indicating that the Xbox mode is successfully entered;
● At this time, the LiteRadio 2 SIM remote controller can be recognized as "BETAFPV Joystick".

Note:
When connected in Xbox mode under the Windows system, if you find the cursor moving, please center the joysticks and set the three-position switches to the middle position, and set the two-position switches to the lower position on the remote controller.

4.3 Method 3: Dongle Mode



● At the same time, move the left joystick to the upper right corner and the right joystick to the upper left corner, then connect the remote controller to the computer with a Type-C data cable, and the indicator light flashes blue quickly 3 times, indicating that the Dongle mode is successfully entered;
● At this time, the LiteRadio 2 SIM remote controller can be recognized as "BETAFPV Joystick".

5. Simulator Software Settings

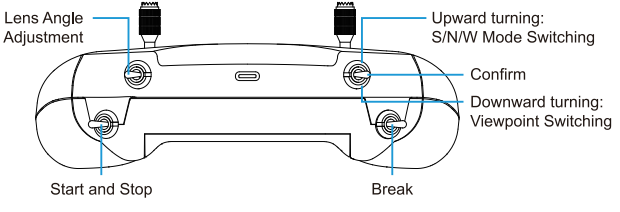
5.1 FPV/Model Airplane Simulator

● The LiteRadio 2 SIM remote controller connected to a computer, mobile phone, or tablet in JoyStick mode;
● Open the simulator software, enter the settings-control interface, and set the channel mapping of the LiteRadio 2 SIM remote controller;
● Start flight training.

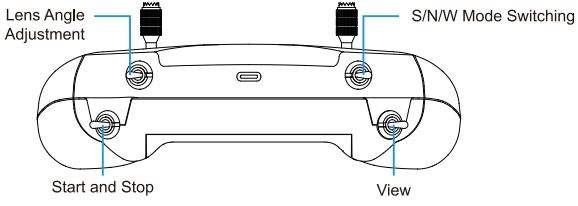
Note:
There may be some differences between the similar FPV/Model Airplane simulators channel mapping . Please refer to the actual situation of the simulator software.

5.2 DJI Virtual Flight

● The LiteRadio 2 SIM remote controller is connected to a Windows operating system device in Xbox mode or to an Android operating system device in JoyStick mode;
● Open the DJI Virtual Flight software and follow the instructions to enter the flight interface;
● Start flight training.
The LiteRadio 2 SIM remote controller has set the default button functions for DJI Virtual Flight before out of factory, as shown in the following figure:
● Windows operating system (Xbox mode)



● Android operating system (JoyStick Mode)

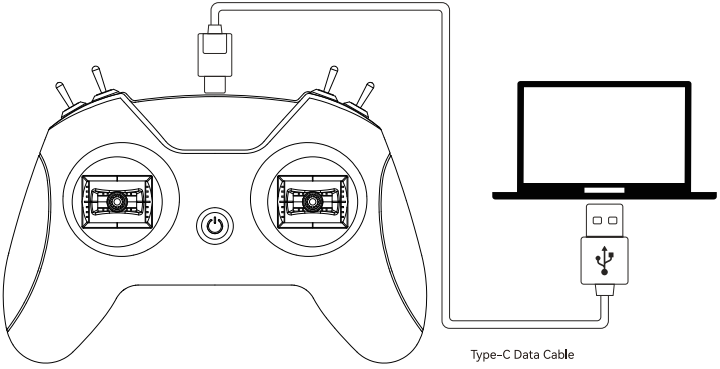


6. Joystick Calibration

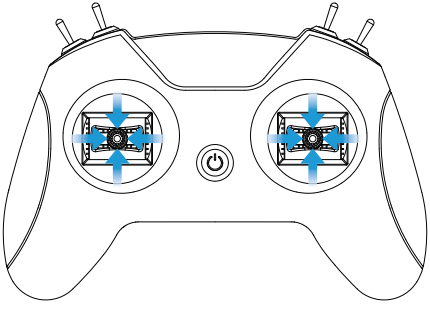
Joystick calibration includes two stages. The first stage is to calibrate the joystick center position, and the second stage is to calibrate the joystick boundary.

Calibration Status	Indicator Light	Status Description
Calibrate the Center Position	The indicator light flashes red quickly 2 times	Enter the joystick calibration state, and move all joysticks to the center position to set the midpoint
Calibrate the boundary	The indicator light flashes red quickly 3 times	Gently move the joystick to the upper, lower, left, and right boundaries to set the maximum range of the joystick
Calibration Complete	The indicator light is green	The joystick calibration is successful

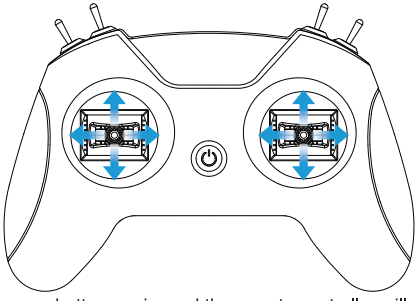
● Connect the remote controller to the computer with a Type-C data cable;



● Long-press the power button for 3 seconds to enter the first stage of the joystick calibration state;
● Move all joysticks to the center position;



● Short-press the power button, and the remote controller will record the center of the joystick and enter the second stage;
● Move the joysticks so that they gently touch the upper, lower, left, and right boundaries;



● Short-press the power button again, and the remote controller will record the boundary of the joystick and complete the calibration.

Note:
The joystick of the LiteRadio 2 SIM remote controller has been calibrated at the factory. Re-calibration is only required if the remote controller is subjected to severe collision or the joystick signal is obviously offset after long-term use.

7. BETAFPV Configurator

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

7.1 Connect to BETAFPV Configurator

● Connect the remote controller to the computer with a Type-C data cable, the indicator light turns green, and the LiteRadio 2 SIM remote controller is recognized as a HID device;
● Open the BETAFPV Configurator application and switch to the remote controller configuration program;
● Click the "Connect RC" button in the upper right corner of the interface to enter the settings interface;
● After modifying the parameters, click the "Save and Reboot" button in the lower right corner of the settings interface to complete the configuration.

Note:
Since the LiteRadio 2 SIM remote controller does not have a radio frequency module, the setting contents involving "radio frequency module configuration" and "buzzer prompt tone switch" are invalid.

7.2 Upgrade Remote Controller Firmware

● While holding down the power button, connect the remote controller to the computer with a Type-C data cable, the indicator light is always blue, and enter the remote controller firmware flashing mode;
● Open the BETAFPV Configurator application and switch to the remote controller configuration program;
● Click the "Firmware Flasher" button in the upper left corner of the interface to enter the firmware flashing interface;
● Complete the flashing according to the instructions of the "Firmware Update Steps" below the firmware flashing interface.
Firmware download address:
https://support.betafpv.com/hc/en-us/articles/48137490231065-LiteRadio-2-SIM

Notes:
● Please select the correct firmware version;
● Do not disconnect the remote controller from the computer during the flashing process.

It is recommended to visit the official website Support page to learn more about the use tutorial of BETAFPV Configurator or download the latest version of the firmware.
Support page link: https://support.betafpv.com/hc/en-us/articles/48137505809561-Manual-for-LiteRadio-2-SIM

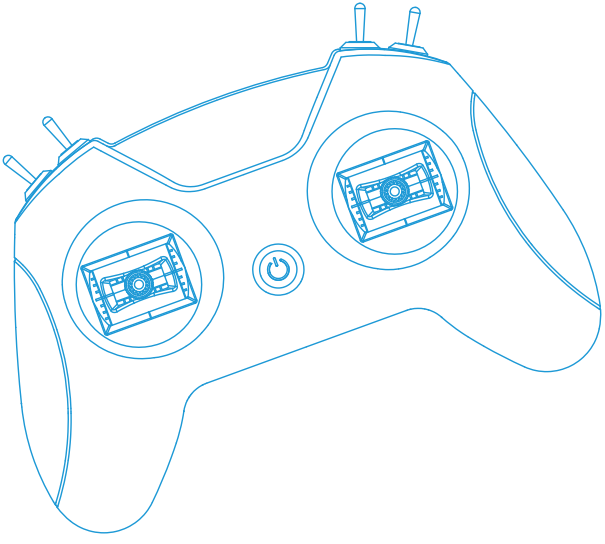
8. Disclaimer

Before using this product, please read and follow the operation instructions in this manual carefully. If the product fails or cannot be used due to non-standard operation, BETAFPV may not be able to provide you with after-sales services such as corresponding warranty.
Using this product means that you have read and accepted all terms related to this product.
If the documentation of this product is updated, it will not be notified separately. Please visit www.betafpv.com to learn the latest information.

9. 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.

LiteRadio 2 SIM遥控器是BETAFPV推出的一款全新模拟器遥控器，支持多种主流穿越机模拟器、航模模拟器及大疆虚拟飞行，兼容多种系统，满足从入门到进阶人群的飞行模拟训练需求。



1. 产品概述

1.1 功能特点

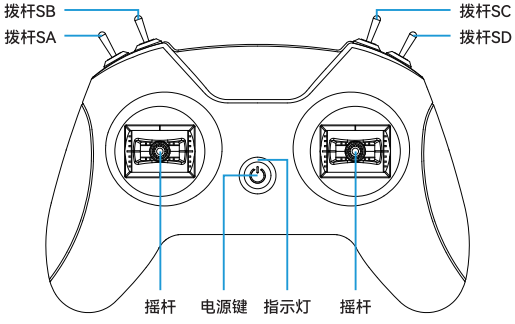
- 使用BETAFPV最新的LiteRadio遥控器系统；
- 拥有8个输出通道，其中4个为自定义开关；
- 与LiteRadio系列遥控器同步升级高精度、长寿命摇杆；
- 支持主流穿越机模拟器、航模模拟器和大疆虚拟飞行；
- 兼容Windows、MacOS和Android等多种系统；
- 无需电池，即插即用。

1.2 规格参数

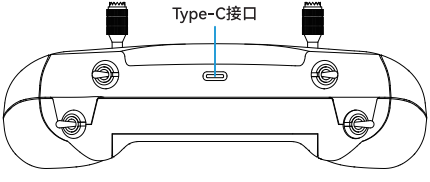
- 产品型号：LiteRadio 2 SIM
- 工作电流：30mA/5V
- 输出接口：Type-C USB
- 供电类型：USB接口供电
- 工作环境温度：-10℃ 至 40℃
- 产品重量：约150g
- 外形尺寸：64.5mm*115.3mm*164.6mm

1.3 外观形态

LiteRadio 2 SIM遥控器正面如下图所示。



LiteRadio 2 SIM遥控器正面如下图所示。



2. 开机/关机

- 使用Type-C数据线连接遥控器和电脑，LiteRadio 2 SIM遥控器开机，指示灯绿色亮起；
- 断开遥控器和电脑的连接，LiteRadio 2 SIM遥控器关机。

3. 指示灯开关

LiteRadio 2 SIM遥控器开机状态时，短按电源键可关闭或开启指示灯。

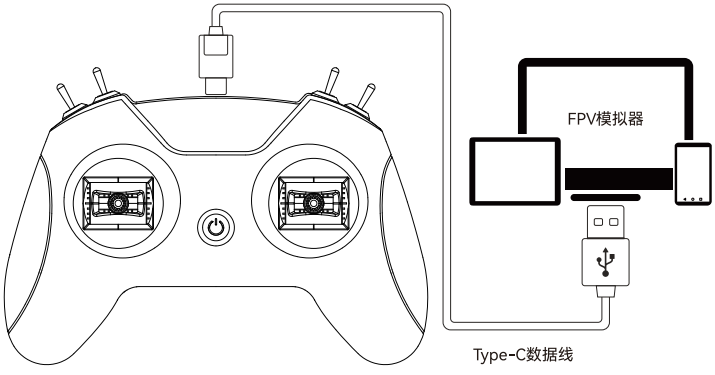
4. 模拟器连接方式

LiteRadio 2 SIM遥控器可以连接电脑、手机或平板，用来练习穿越机模拟器、航模模拟器或大疆虚拟飞行。

LiteRadio 2 SIM遥控器支持的模拟器：

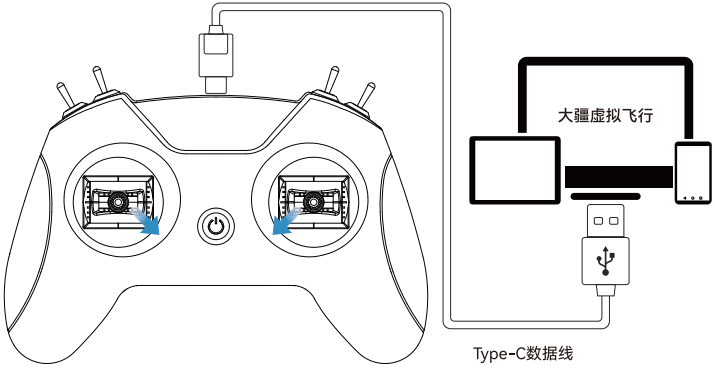
模拟器名称	连接方式
黑羊模拟器、UNCRASHED、DRL、DCL、LIFTOFF、 TryPFPV、FeelFPV、FPV Freerider、 凌动模拟飞行、STEAM平台上的无人机模拟器软件	JoyStick模式
航空模拟飞行8、大疆虚拟飞行	Xbox模式
凤凰模拟器6.0	加密狗模式

4.1 方式一：JoyStick模式



- 使用Type-C数据线将遥控器连接到电脑、手机或平板；
- 此时LiteRadio 2 SIM遥控器可被识别为“BETAFPV Joystick”。

4.2 方式二：Xbox模式

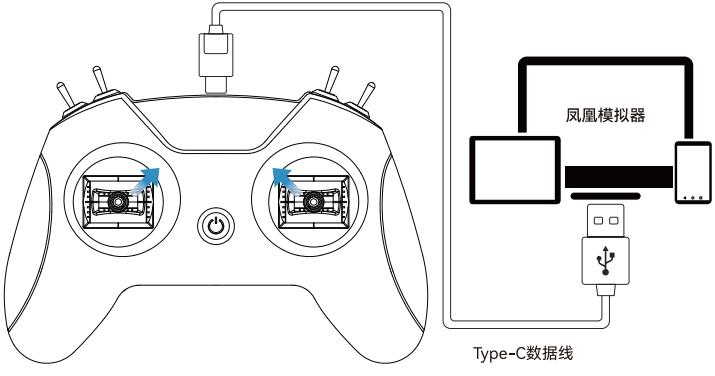


- 同时将左侧摇杆拨到右下角，右侧摇杆拨到左下角，此时使用Type-C数据线将遥控器

连接到电脑，状态灯白色快闪3次，表明进入Xbox模式成功；
- 此时LiteRadio 2 SIM遥控器可被识别为“BETAFPV Joystick”。

注意：
- 在Windows系统下连接Xbox模式后，如果发现光标移动，请将遥控器的摇杆和三段拨杆拨至中间位置、两段拨杆拨至下边位置。

4.3 方式三：加密狗模式



- 同时将左侧摇杆拨到右上角，右侧摇杆拨到左上角，此时使用Type-C数据线将遥控器连接到电脑，指示灯蓝色快闪3次，表明进入加密狗模式成功；
- 此时LiteRadio 2 SIM遥控器可被识别为“BETAFPV Joystick”。

5. 模拟器软件设置

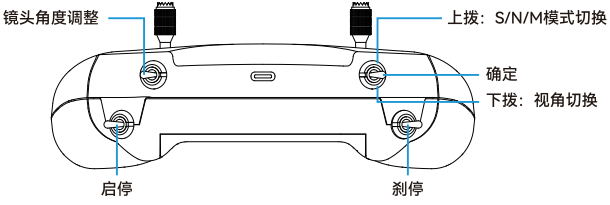
5.1 穿越机/航模类模拟器

- LiteRadio 2 SIM遥控器以JoyStick模式连接电脑、手机或平板；
- 打开模拟器软件，进入设置-控制界面，设定LiteRadio 2 SIM遥控器的通道映射；
- 开启飞行训练。

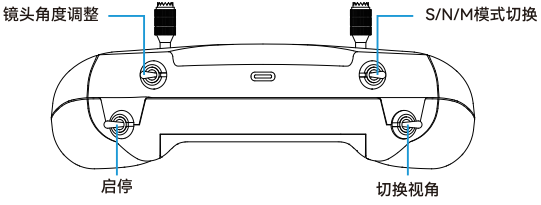
提示：
- 大部分穿越机模拟器、航模模拟器的通道映射设置方法都是相似的，但也可能存在一些差异，请以模拟器软件的实际情况为准。

5.2 大疆虚拟飞行

● LiteRadio 2 SIM遥控器以Xbox模式连接Windows操作系统设备或以JoyStick模式连接安卓操作系统设备；
● 打开大疆虚拟飞行软件，按照指引进入飞行界面；
● 开启飞行训练。
在出厂时，LiteRadio 2 SIM遥控器已经设置了大疆虚拟飞行的默认按键功能，如下图所示：
● Windows操作系统（Xbox模式）



● 安卓操作系统（JoyStick模式）

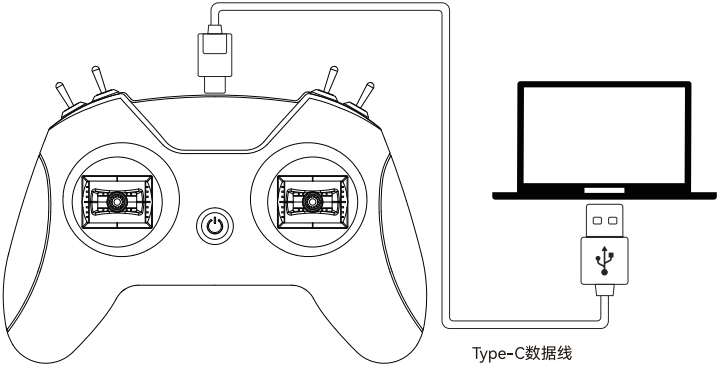


6. 摇杆校准

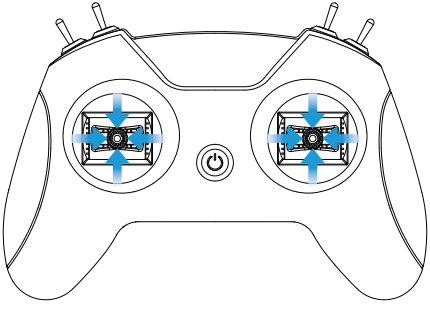
摇杆校准包含两个阶段，第一阶段是校准摇杆中位，第二阶段是校准摇杆边界。

校准状态	指示灯	状态说明
校准中点	指示灯红色快闪2次	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	指示灯红色快闪3次	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	指示灯绿色亮起	摇杆校准成功。

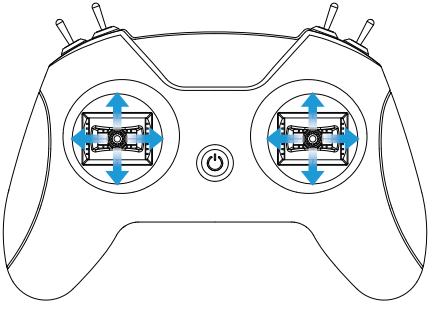
- 使用Type-C数据线将遥控器连接到电脑；



- 长按电源键3秒，进入摇杆校准状态的第一阶段；
- 将所有摇杆拨到中间位置；



- 短按电源键，此时遥控器将记录摇杆的中点，并进入第二阶段；
- 拨动摇杆使它们轻轻触碰到上、下、左、右四个边界；



- 再次短按电源键，此时遥控器将记录摇杆的边界，并完成校准。

注意：

LiteRadio 2 SIM遥控器的摇杆在出厂时已校准，只有在遥控器经受剧烈碰撞，或长期使用后发现摇杆信号有明显偏移时，才需要重新进行校准。

7. 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

7.1 连接BETAFPV Configurator

- 使用Type-C数据线将遥控器连接到电脑，指示灯绿色亮起，LiteRadio 2 SIM遥控器被识别为HID设备；
- 打开BETAFPV Configurator应用程序，切换为遥控器配置程序；
- 点击界面右上角的“连接遥控器”按钮，进入设置界面；
- 修改参数后，需点击设置界面右下角的“保存并重启”按钮完成配置。

注意：
- 由于LiteRadio 2 SIM遥控器没有射频模块，所以涉及“射频模块配置”和“蜂鸣器提示音开关”的设置内容无效。

7.2 升级遥控器固件

- 按住电源键的同时使用Type-C数据线连接遥控器和电脑，指示灯蓝色常亮，进入遥控器固件烧写模式；
- 打开BETAFPV Configurator应用程序，切换为遥控器配置程序；
- 点击界面左上方的“固件烧写工具”按钮，进入固件烧写界面；
- 按照固件烧写界面下方的“遥控器固件烧写步骤”的指引完成烧写。

固件下载地址：
https://flowus.cn/betafpv/share/6c504113-c1d2-4ddd-bc44-f55d61e0c548

注意：
- 请选择正确的固件版本；
- 烧写过程中请勿断开遥控器与电脑的连接。

7.3 下载用户手册

链接：https://flowus.cn/betafpv/share/6c504113-c1d2-4ddd-bc44-f55d61e0c548

8. 免责声明

使用本产品前，请您仔细阅读并遵守此说明书内的操作指引，如因不规范操作导致产品故障或无法使用，BETAFPV可能无法向您提供相应保修措施等售后服务。
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