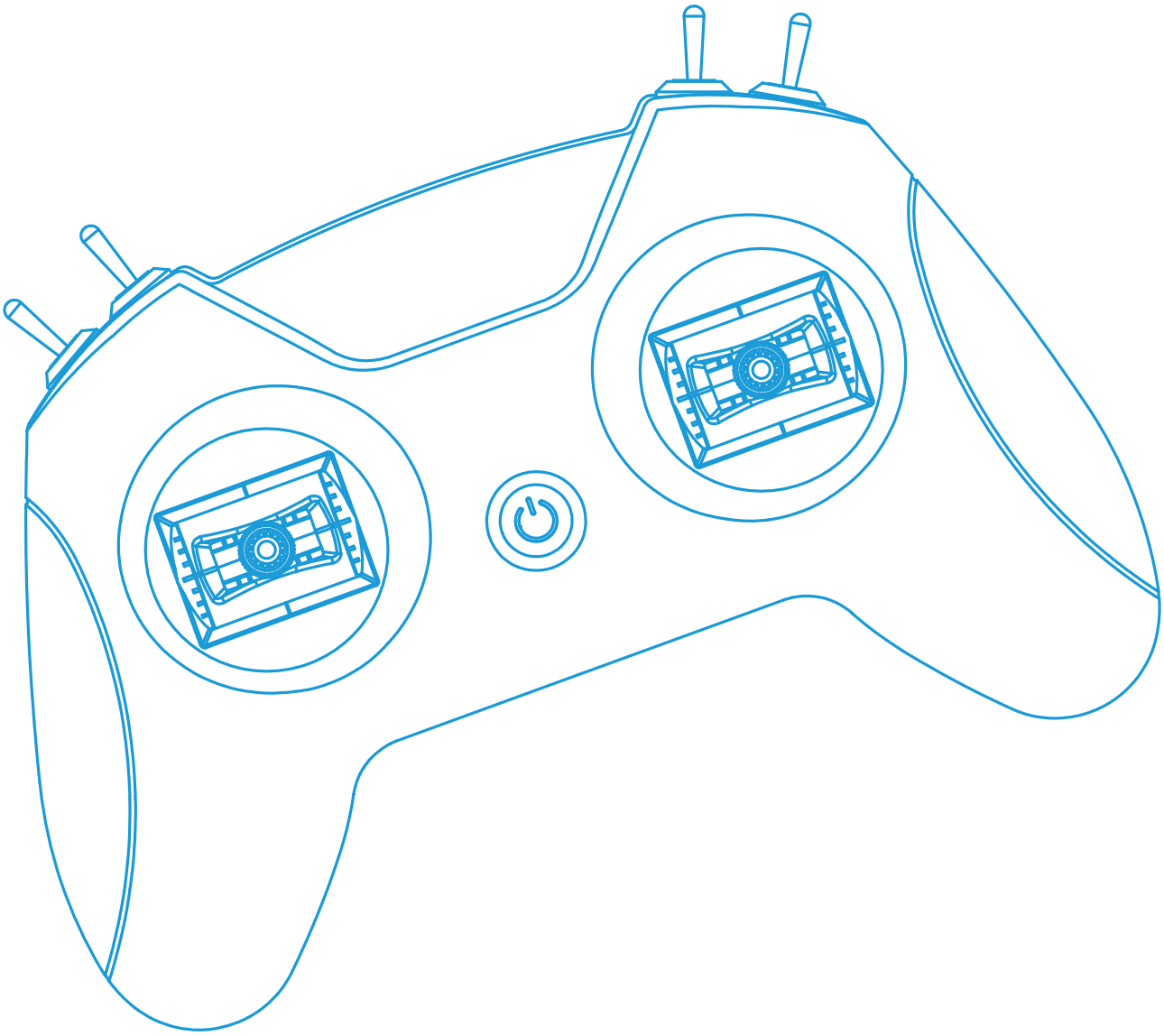
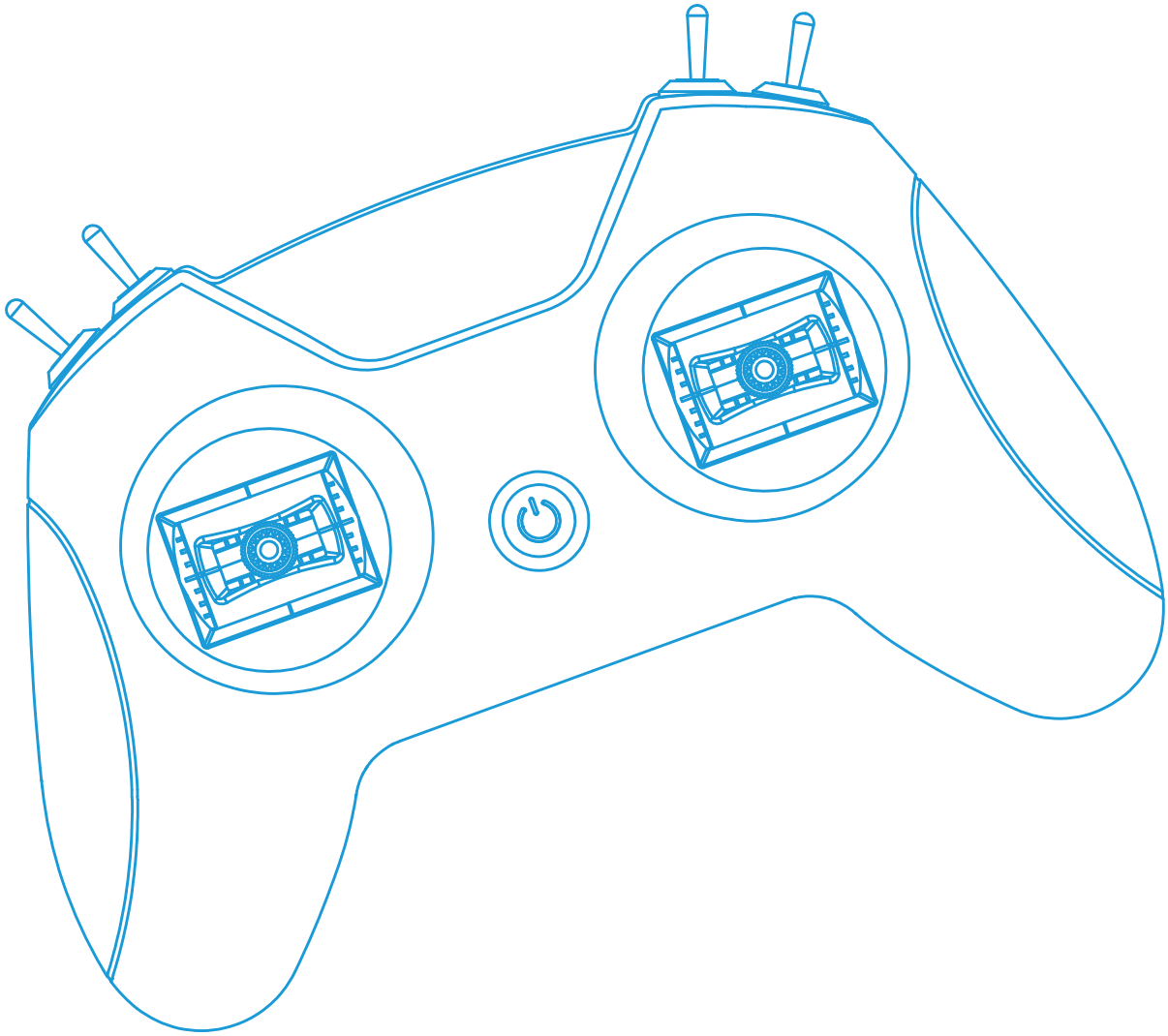
BETAFPV



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

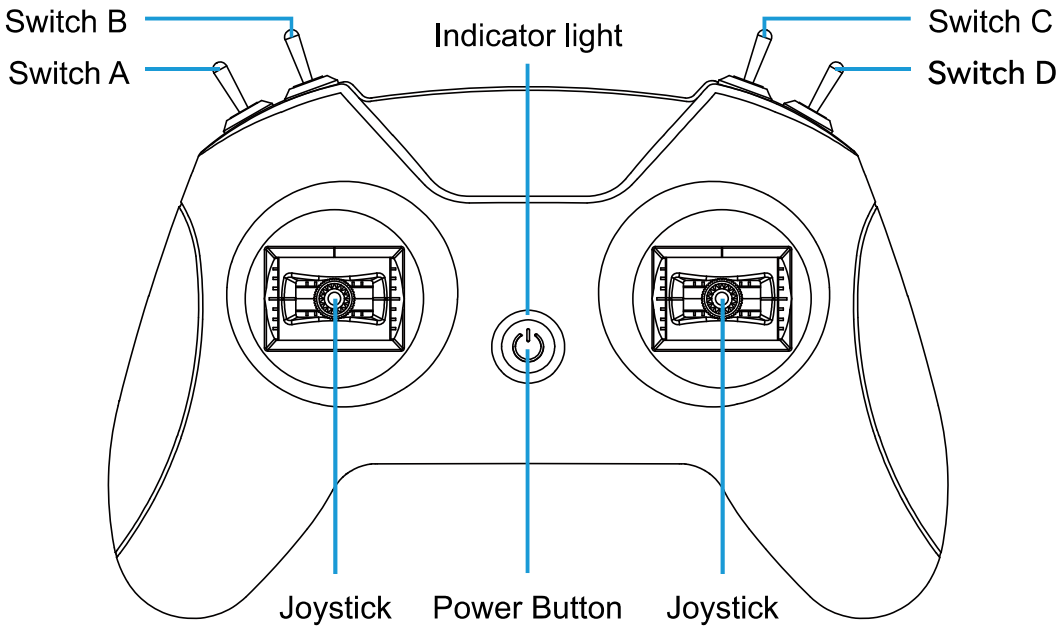
- Utilizes BETAFPV's latest LiteRadio remote controller system;
- Have 8 output channels, 4 of the channels are custom switches;
- Synchronize with the LiteRadio series remote controller, and upgrade high-precision and long-life joysticks;
- Support mainstream FPV/Model Airplane simulators and DJI Virtual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

1.2 Specification

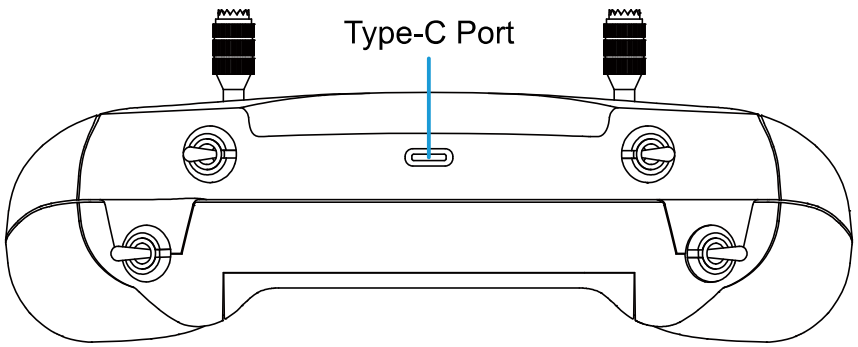
- Product model: LiteRadio 2 SIM
- Working Current: 30mA/5V
- Output interface: Type-C USB
- Power supply type: USB interface power supply
- Working environment temperature: -10℃ to 40℃
- Product weight: about 150g
- Dimensions: 64.5mm*115.3mm*164.6mm

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.

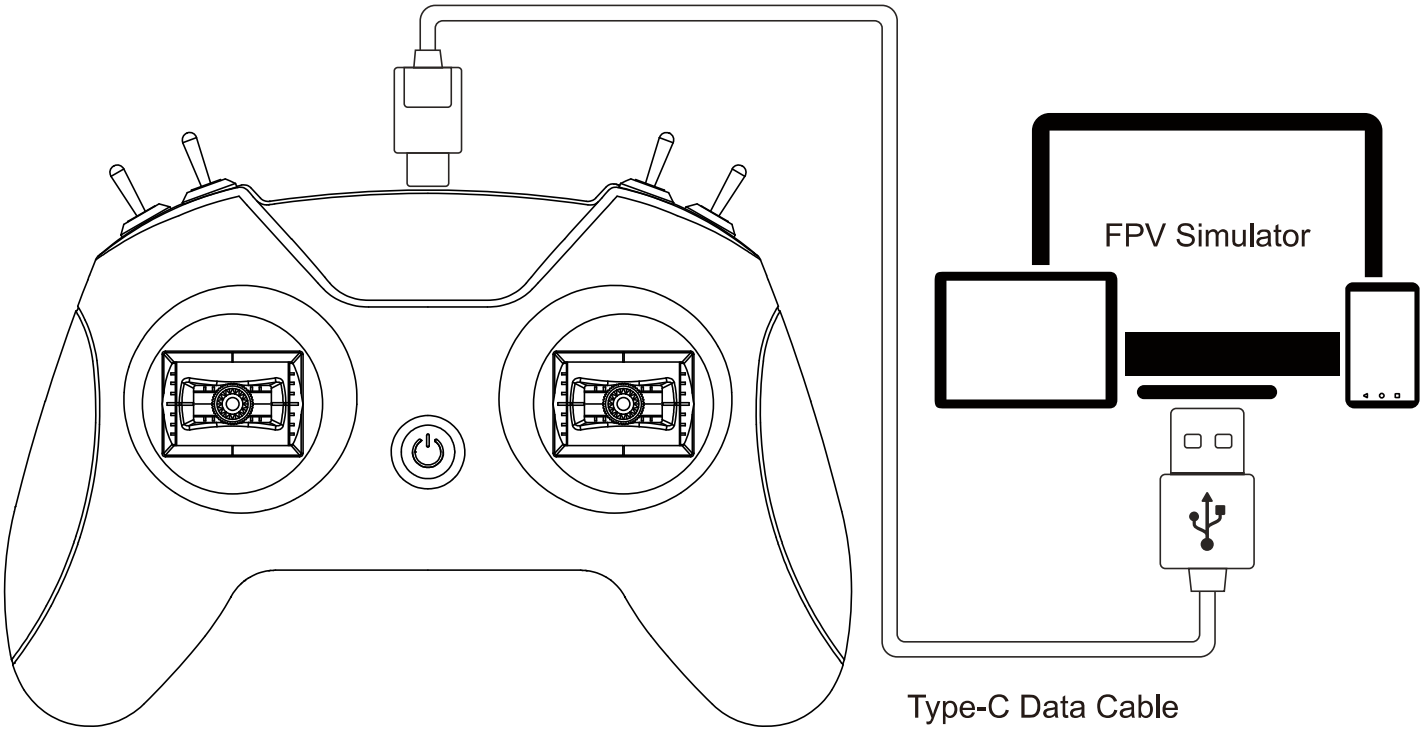
4. Connect to Simulator

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:

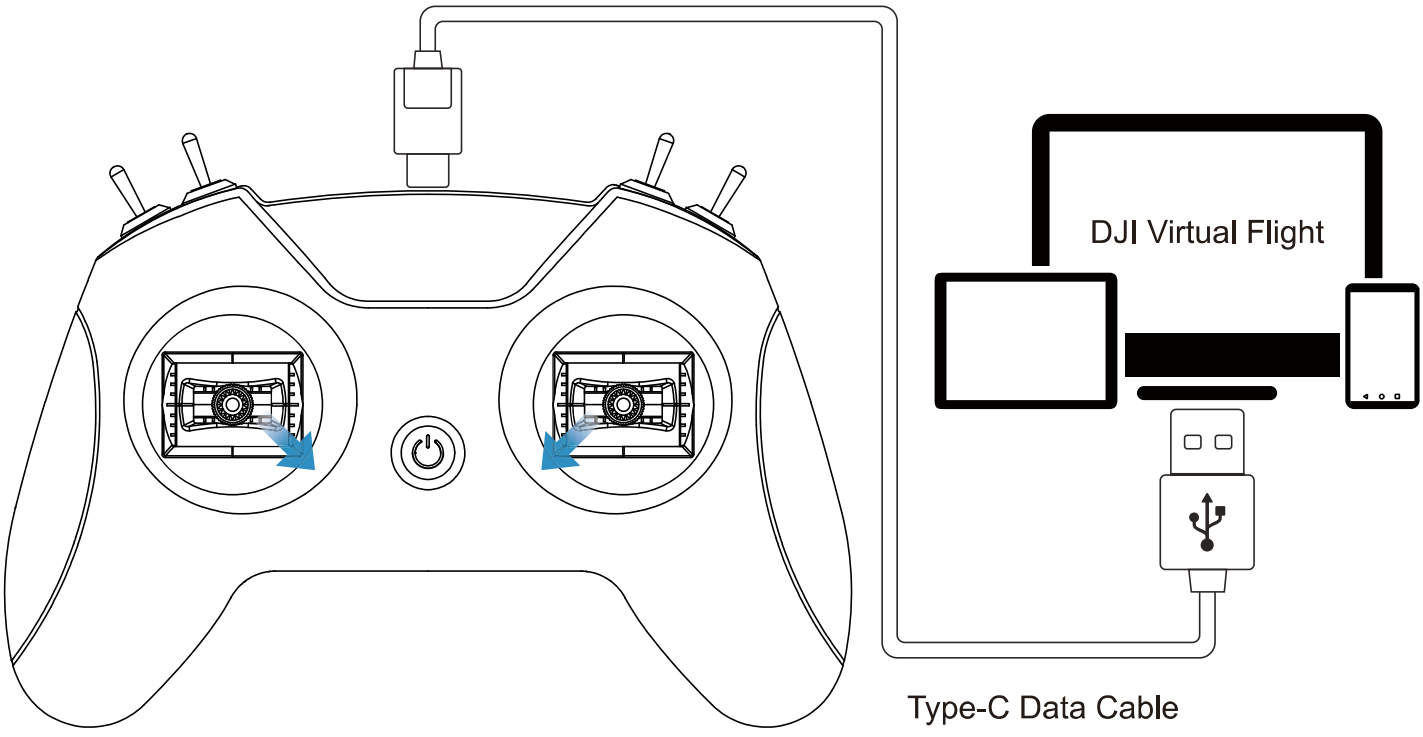
Simulator Name	Connection Method
VelociDrone / UNCRASHED / DRL / DCL / LIFTOFF / TryPFPV / FeelFPV / FPV Freerider / Lingdong Simulator / Simulators of STEAM	JoyStick Mode
Aerofly RC 8 / DJI Virtual Flight	Xbox Mode
PhoenixRC 6.0	Dongle Mode

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".

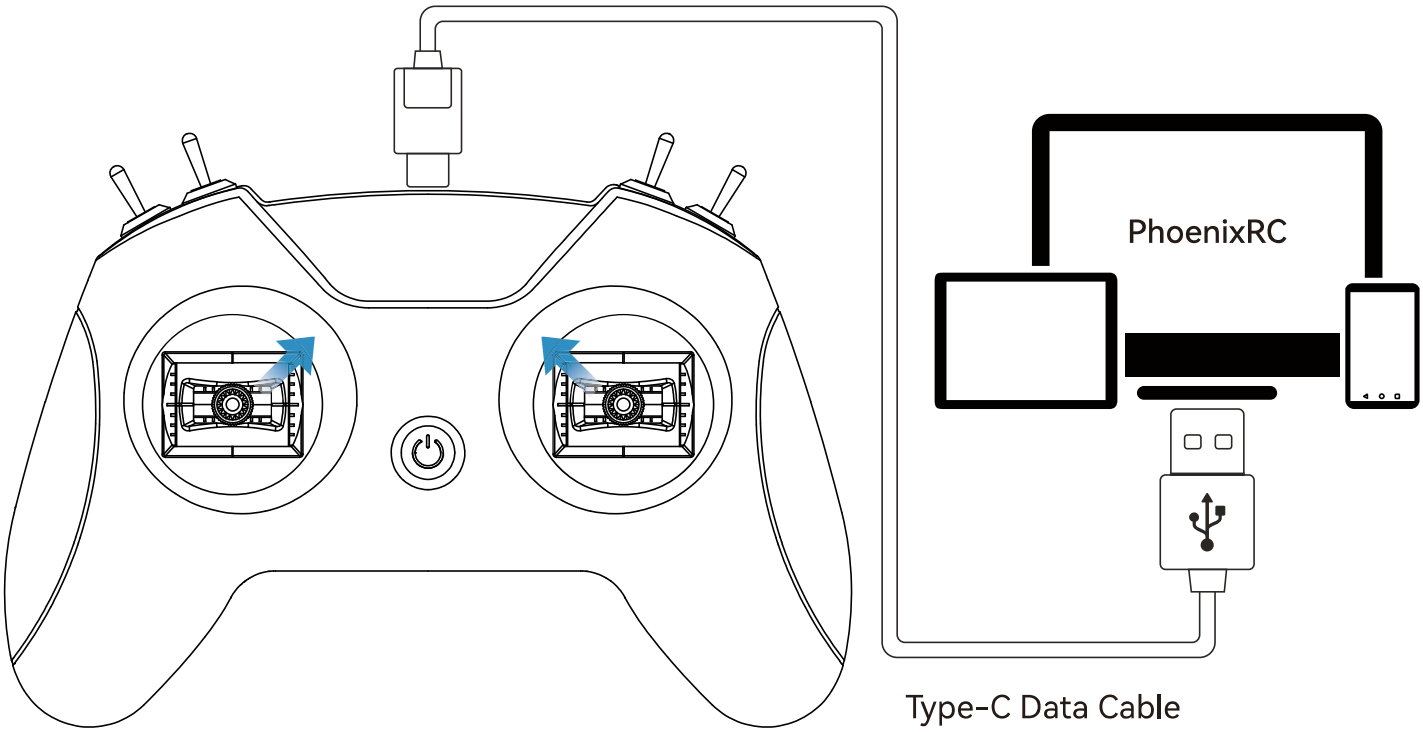
4.2 Method 2: Xbox Mode



● 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

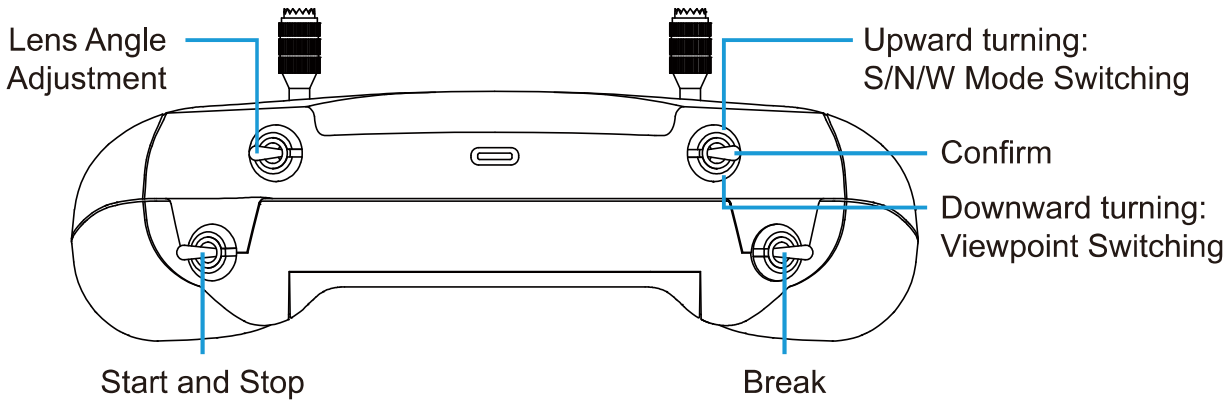
5.1 FPV/Model Airplane Simulator

● 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.

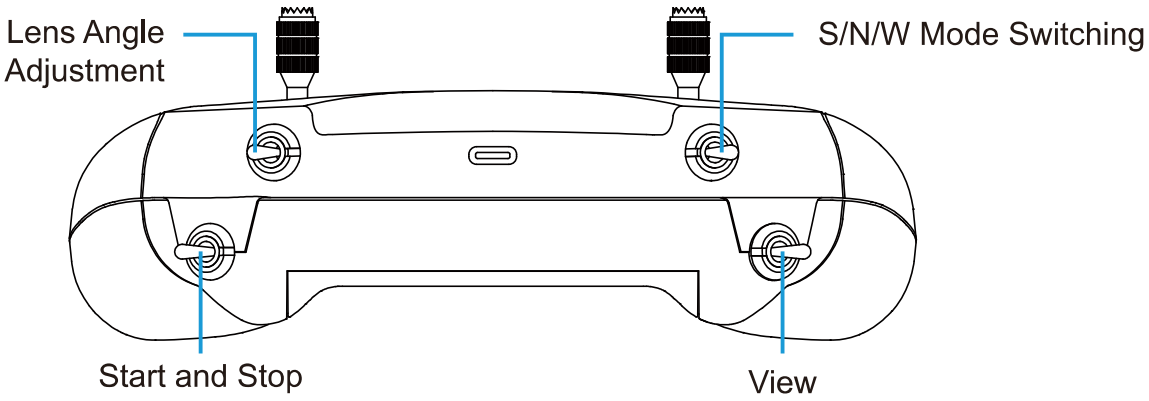
Note:
There may be some differences between the similar FPV/Model Airplane simulators channel mapping . Please refer to the actual situation of the simulator software.

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)

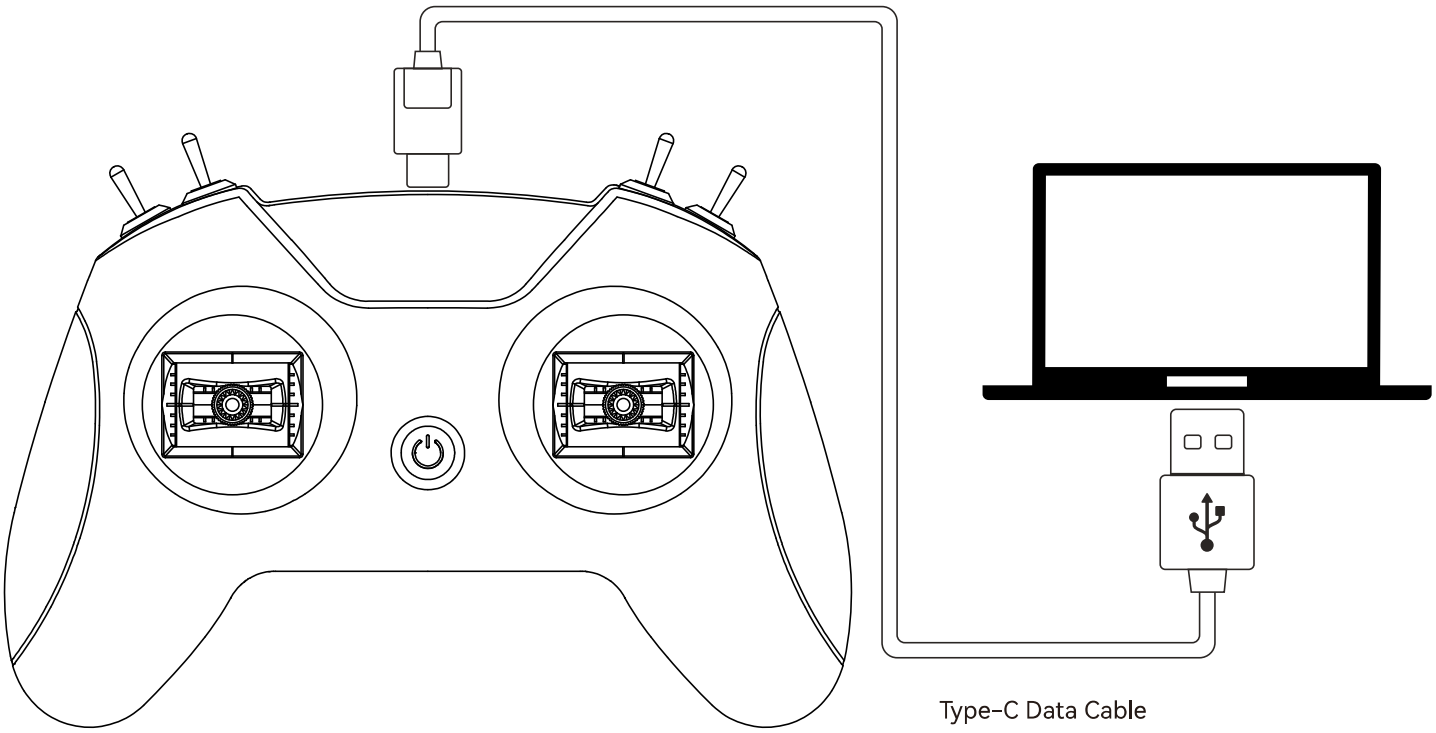


6. Joystick Calibration

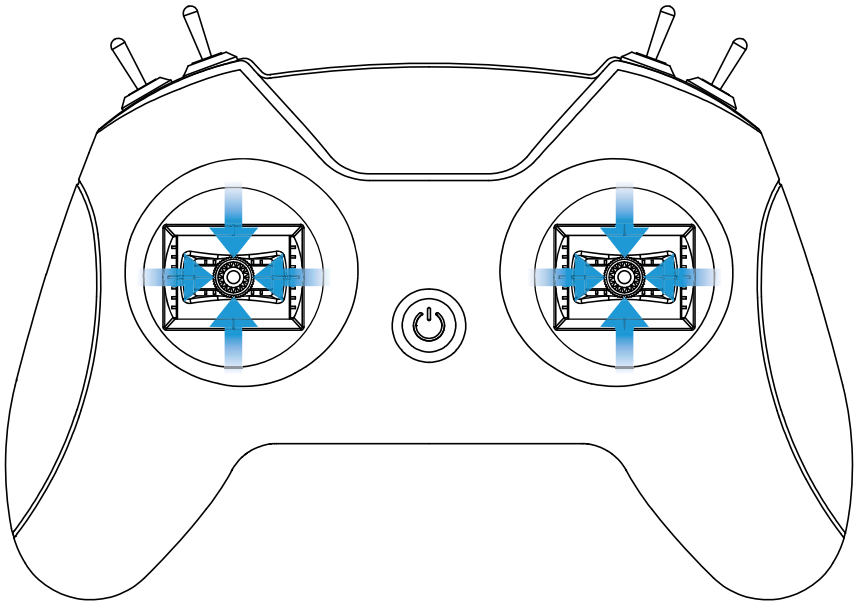
Joystick calibration includes two stages. The first stage is to calibrate the joystick center position, and the second stage is to calibrate the joystick boundary.

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

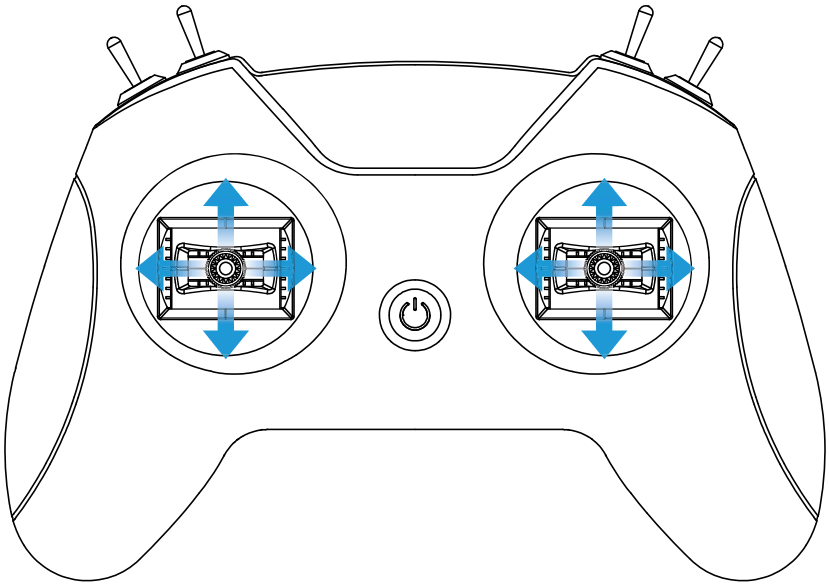
● Connect the remote controller to the computer with a Type-C data cable;



● 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.