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BETAFPV LiteRadio 2 SIM

BETAFPV LiteRadio 2 SIM Drone Flight Simulator Controller User Manual

MODEL: LITERADIO 2 SIM

Brand: BETAFPV

1. Introduction

The BETAFPV LiteRadio 2 SIM Controller is designed for FPV drone flight simulator training. It provides an authentic flight experience for both novice and experienced pilots, allowing practice without the risks associated with real-world flying. This controller offers universal compatibility across major simulator platforms on Windows, macOS, and Android.

This manual provides detailed instructions for setting up, operating, and maintaining your LiteRadio 2 SIM controller.

2. Package Contents

Upon opening your LiteRadio 2 SIM Controller package, please verify that all items listed below are present and in good condition:

- 1 x LiteRadio 2 SIM Controller (Mode 2, Red)
- 1 x USB Type-C Cable
- 1 x User Manual



Image: Contents of the LiteRadio 2 SIM Controller package, including the controller, USB-C cable, and user manual.

3. Setup and Connection

The LiteRadio 2 SIM controller supports three primary connection modes for various flight simulators: Joystick Mode, Xbox Mode, and Dongle Mode. Follow the instructions below to connect your controller to your preferred simulator.

3.1. General Connection Steps

1. Ensure your computer (Windows 10+), macOS device, or Android device is powered on.
2. Connect the LiteRadio 2 SIM controller to your device using the provided USB Type-C cable. The Type-C port is located on the front of the controller.

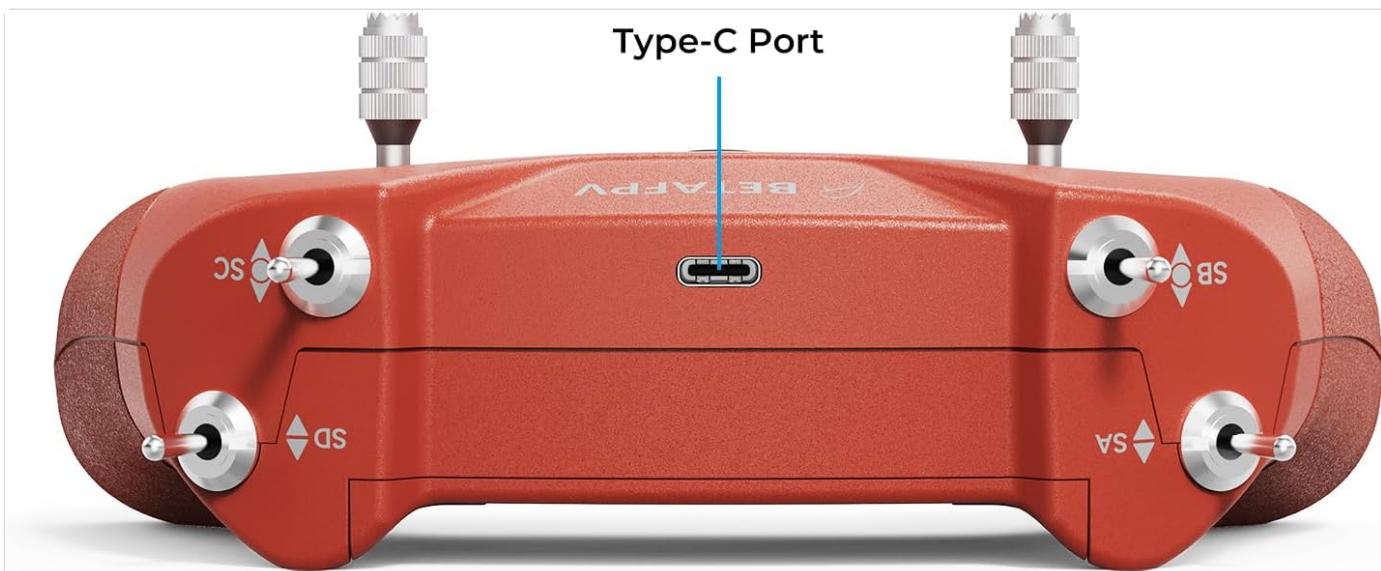


Image: The front of the LiteRadio 2 SIM controller highlighting the Type-C USB port for connection.

3.2. Joystick Mode

Joystick Mode is compatible with a wide range of FPV simulators, including VelociDrone, UNCRASHED, DRL, DCL, Liftoff, TRYFPV, FeelFPV, FPV Freerider, RaceFly, and other FPV simulators available on Steam.

- Connect the LiteRadio 2 SIM to your device via the Type-C cable.
- The Power Button on the controller will turn green, indicating it has entered Joystick Mode.
- Your device should recognize the controller as a "BETAFPV Joystick".



Image: The LiteRadio 2 SIM controller connected to a laptop, demonstrating its multi-platform compatibility with various FPV simulators.

3.3. Xbox Mode

Xbox Mode is used for DJI Virtual Flight and Aerofly RC 8 simulators.

1. Simultaneously move the left joystick to the lower right corner and the right joystick to the lower left corner.
2. While holding the joysticks in position, connect the LiteRadio 2 SIM to your device using the Type-C cable.

3. The Power Button will flash white rapidly 3 times, indicating successful entry into Xbox Mode.
4. Your device should recognize the controller as a "BETAFFV Joystick".
5. **Note:** For optimal performance and to prevent unintended cursor movement, ensure the joysticks and the switches of SC and SB are in their central positions, and the switches of SA and SD are in their down positions after entering Xbox Mode.

3.4. Dongle Mode

Dongle Mode is specifically designed for PhoenixRC 6.0 flight simulator.

1. Simultaneously move the left joystick to the upper right corner and the right joystick to the upper left corner.
2. While holding the joysticks in position, connect the LiteRadio 2 SIM to your device using the Type-C cable.
3. The Power Button will flash blue rapidly 3 times, indicating successful entry into Dongle Mode.
4. Your device should recognize the controller as a "BETAFFV Joystick".
5. **Note:** For optimal performance and to prevent unintended cursor movement, ensure the joysticks and the switches of SC and SB are in their central positions, and the switches of SA and SD are in their down positions after entering Dongle Mode.

3.5. Initial Calibration

When connecting your LiteRadio 2 SIM to any simulator for the first time, it is essential to calibrate the joysticks and set the channels you intend to use within the simulator's settings. Refer to your simulator's specific instructions for calibration procedures.

Your browser does not support the video tag.

Video: An official BETAFFV tutorial demonstrating the connection methods (Joystick, Xbox, Dongle) for the LiteRadio 2 SIM controller with various flight simulators.

4. Operating Instructions

Once connected and calibrated, the LiteRadio 2 SIM controller functions as a standard FPV remote control within your chosen simulator. The controller features pro-grade gimbals for precise control and various switches for auxiliary functions.

- **Joysticks:** Control the drone's pitch, roll, yaw, and throttle.
- **Switches (SA, SB, SC, SD):** These switches can be assigned to various functions within the simulator, such as arming/disarming, flight modes, or camera control. Refer to your simulator's settings to configure these.
- **Power Button:** In addition to indicating connection mode, a short press can often be used to exit or pause within some simulators.

Compatible with Multi-Platform

JOYSTICK MODE



The controller is shown in Joystick Mode, with its two analog sticks and central button clearly visible.



LIFTOFF



VelociDrone



UNCRASHED



DRL SIM



FPV Freerider



TryFPV

And other flight simulators

XBOX MODE



The controller is shown in Xbox Mode, with its two analog sticks and central button, and blue arrows indicating the mapping to Xbox-style controls.



aeroflyRC8



Aerofly RC 8

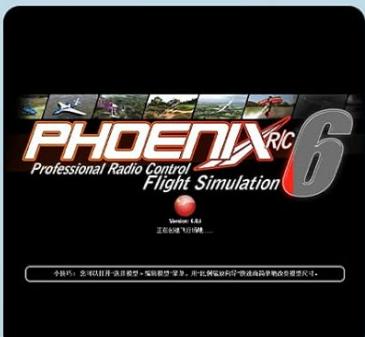


Virtual Flight

DONGLE MODE



The controller is shown in Dongle Mode, with its two analog sticks and central button, and blue arrows indicating the mapping to a USB dongle connection.



PhoenixRC 6.0

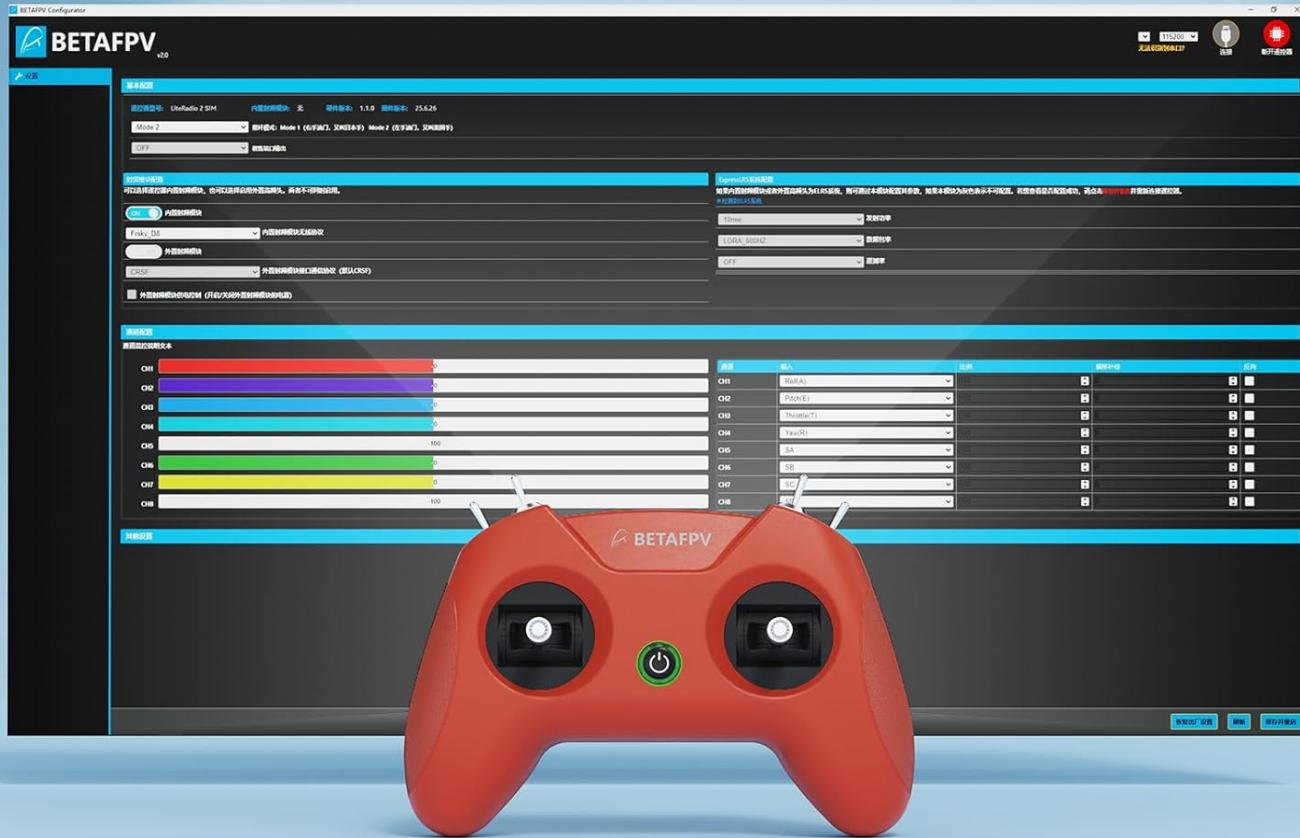
Image: Visual representation of the three connection modes (Joystick, Xbox, Dongle) and their compatible simulators.

5. BETAFPV Configurator

The LiteRadio 2 SIM controller supports updates via the BETAFPV Configurator. This open-source configuration tool allows pilots to configure and fine-tune various parameters, ensuring compatibility with new simulator releases and optimized flight control. Regular updates are recommended to maintain optimal performance and access new features.

- Download the latest BETAFPV Configurator from the official BETAFPV website.
- Connect your LiteRadio 2 SIM controller to your computer using the Type-C cable.
- Follow the on-screen instructions within the Configurator to update firmware or adjust settings.

BETAFPV Configurator V2.0



Support
Windows / macOS / Android

Real-time
Feedback

Simplified
Troubleshooting

Easy Parameter
Adjustment

Image: The BETAFPV Configurator V2.0 software interface, used for updating and fine-tuning the controller.

6. Maintenance

To ensure the longevity and optimal performance of your LiteRadio 2 SIM controller, follow these maintenance guidelines:

- Cleaning:** Use a soft, dry cloth to clean the exterior of the controller. Avoid using harsh chemicals or abrasive materials.
- Storage:** Store the controller in a cool, dry place away from direct sunlight and extreme temperatures.
- Cable Care:** Handle the USB Type-C cable with care. Avoid sharp bends or excessive pulling to prevent damage.
- Firmware Updates:** Regularly check for and install firmware updates via the BETAFPV Configurator to ensure compatibility and access to the latest features.

7. Troubleshooting

- Controller Not Recognized:**

- Ensure the USB Type-C cable is securely connected to both the controller and your device.
- Try a different USB port on your computer.
- Verify that the correct connection mode (Joystick, Xbox, or Dongle) has been activated by observing the Power Button's LED color/flashing pattern.
- Restart your computer and try connecting again.
- Check for updated drivers or the latest BETAFPV Configurator software.

- **Incorrect Input/Calibration Issues:**

- Perform a joystick calibration within your simulator's settings.
- Ensure the switches (SA, SB, SC, SD) are in their neutral or specified positions for the chosen mode.
- If using Xbox or Dongle mode, ensure the joysticks were held in the correct positions during connection.

- **Simulator Lag/Performance Issues:**

- Ensure your computer meets the minimum system requirements for the simulator.
- Close other demanding applications running in the background.
- Update your graphics card drivers.

8. Specifications

Feature	Detail
Brand	BETAFPV
Model	LiteRadio 2 SIM
Item Weight	0.75 Pounds (approx. 12 ounces)
Product Dimensions (L x W x H)	5.6 x 3.5 x 8 inches
Manufacturer Part Number	LR2 SIM Red
Color	Red
Connectivity	USB Type-C
Supported Platforms	Windows, macOS, Android
Supported Simulators (Joystick Mode)	VelociDrone, UNCRASHED, DRL, DCL, Liftoff, TRYP FPV, FeelFPV, FPV Freerider, RaceFly, Steam simulators
Supported Simulators (Xbox Mode)	DJI Virtual Flight, Aerofly RC 8
Supported Simulators (Dongle Mode)	PhoenixRC 6.0

9. Support and Warranty

For technical support, troubleshooting assistance, or to inquire about warranty information, please visit the official BETAFPV website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims. BETAFPV also offers protection plans for extended coverage. Details on these plans can be found where the product was purchased or on the BETAFPV website.

- [BETAFPV Official Website](#)
- [BETAFPV Amazon Store](#)

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