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BETA FPV LiteRadio 2 SE

BETA FPV LiteRadio 2 SE 2.4GHZ 8CH Transmitter Instruction Manual

Comprehensive guide for setup, operation, and maintenance of your LiteRadio 2 SE transmitter.

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1. OVERVIEW

The BETA FPV LiteRadio 2 SE is a 2.4GHZ 8-channel radio transmitter designed for RC drones, particularly suited for beginners. It supports multiple protocols including Frsky D16, Frsky D8, and Futaba S-FHSS. This transmitter features an ergonomic design with a non-slip texture for comfortable handling and includes a built-in 1000mAh 1S battery, offering approximately 8 hours of usage. It can be conveniently charged via a USB Type-C port and includes a low voltage warning function. The LiteRadio 2 SE also functions as a USB joystick, allowing seamless connection to a PC for FPV simulator practice.



Image 1.1: The BETA FPV LiteRadio 2 SE 2.4GHz 8CH Transmitter, showcasing its ergonomic design and dual gimbals.

2. KEY FEATURES

- **LiteRadio System:** Utilizes the BETA FPV LiteRadio system, simplifying joystick calibration and firmware updates for ease of use, especially for beginners.
- **Integrated Battery:** Equipped with a built-in 1000mAh 1S battery, providing approximately 8 hours of continuous operation.
- **USB Type-C Charging:** Conveniently rechargeable via a USB Type-C port.
- **Low Voltage Warning:** Features an LED indicator that flashes blue when the battery voltage drops below 3.5V.
- **Ergonomic Design:** Designed for comfortable handling with a non-slip texture.
- **Simulator Compatibility:** Functions as a USB joystick, allowing direct connection to a PC for use with FPV

simulators.

- **Multi-Protocol Support:** Compatible with Frsky D16, Frsky D8, and Futaba S-FHSS protocols.

3. SETUP GUIDE

3.1 Unboxing and Initial Inspection

Upon receiving your LiteRadio 2 SE, carefully unbox the package and inspect all components for any signs of damage. Ensure all listed items are present.



Image 3.1: Contents of the LiteRadio 2 SE package, including the transmitter, manual, and support information.

3.2 Gimbal Stick Installation

The LiteRadio 2 SE gimbals are designed for quick and tool-free installation. Simply screw the gimbal sticks into their respective positions on the transmitter.



Image 3.2: Close-up of the gimbal sticks on the LiteRadio 2 SE transmitter.

3.3 Charging the Battery

The transmitter comes with a built-in 1000mAh 1S battery. To charge, connect the included USB Type-C cable to the charging port on the transmitter and a suitable USB power source (e.g., computer, USB wall adapter). The charging indicator LED will show the charging status.



Image 3.3: The USB Type-C charging port located on the top edge of the LiteRadio 2 SE transmitter.

3.4 Connecting to a PC for Simulator Use

The LiteRadio 2 SE can be used as a USB joystick for FPV simulators. Connect the transmitter to your PC using a USB Type-C cable. The PC should recognize it as a joystick device, allowing you to configure it within your preferred FPV simulator software.

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Video 3.4.1: Demonstrates connecting an FPV remote controller to a PC for simulator use. This video shows the STARDRONE S8 Flight Simulator Handle, which functions similarly to the LiteRadio 2 SE for simulator purposes.

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Video 3.4.2: A quick start guide for setting up a controller with the Uncrashed FPV simulator. This video uses a STARDRONE controller, but the setup process for the LiteRadio 2 SE as a USB joystick is comparable.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- To power on, press and hold the power button until the LED indicator lights up.
- To power off, press and hold the power button until the LED indicator turns off.

4.2 Binding to a Receiver

The binding procedure varies depending on the receiver and protocol (Frsky D16, Frsky D8, Futaba S-FHSS). Generally, you will need to put your receiver into binding mode and then activate the binding sequence on the LiteRadio 2 SE. Refer to your drone's flight controller or receiver manual for specific binding instructions. The LiteRadio 2 SE typically has a dedicated button or stick combination for initiating binding mode.

4.3 Gimbal Calibration

Regular calibration of the gimbals ensures precise control. The LiteRadio system allows for easy joystick calibration. Consult the official BETA FPV support resources for detailed steps on how to perform gimbal calibration.

4.4 Low Voltage Warning

When the internal battery voltage drops below 3.5V, the LED indicator on the transmitter will flash blue, signaling that it's time to recharge the unit.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transmitter. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to approximately 50-60% to prolong its lifespan.
- **Firmware Updates:** Periodically check the BETA FPV website for firmware updates. Keeping the firmware updated can improve performance and add new features.

6. TROUBLESHOOTING

- **Transmitter not powering on:** Ensure the battery is sufficiently charged. Connect to a USB Type-C power source and check if the charging LED activates.
- **Unable to bind to receiver:**
 - Verify that both the transmitter and receiver are in binding mode.
 - Confirm that the transmitter's protocol (Frsky D16, D8, or Futaba S-FHSS) matches the receiver's protocol.
 - Ensure the transmitter and receiver are within close proximity during the binding process.
- **Poor control response/drift:**
 - Perform gimbal calibration as described in the operating instructions or the official BETA FPV support page.
 - Check for any physical obstructions or damage to the gimbals.
- **Not recognized by FPV simulator:**
 - Ensure the USB Type-C cable is securely connected to both the transmitter and the PC.
 - Check your PC's device manager to confirm the transmitter is recognized as a joystick or game controller.
 - Verify that your FPV simulator software is correctly configured to use the LiteRadio 2 SE as an input device.

7. SPECIFICATIONS

Feature	Detail
Brand	BETAFPV
Model	LiteRadio 2 SE
Frequency	2.4GHZ
Channels	8CH
Supported Protocols	Frsky D16, Frsky D8, Futaba S-FHSS
Battery	Built-in 1000mAh 1S
Usage Time	Approx. 8 hours
Charging Port	USB Type-C
Low Voltage Warning	LED flashes blue below 3.5V
Simulator Function	USB Joystick

8. WARRANTY & SUPPORT

For warranty information, technical support, or further assistance with your BETAFPV LiteRadio 2 SE transmitter, please refer to the official BETAFPV support channels.

- **Official Support Website:** <http://support.betafpv.com>
- **Facebook Community:** <http://facebook.com/betafpv>

Always ensure you are using genuine BETAFPV parts and accessories for optimal performance and safety.