

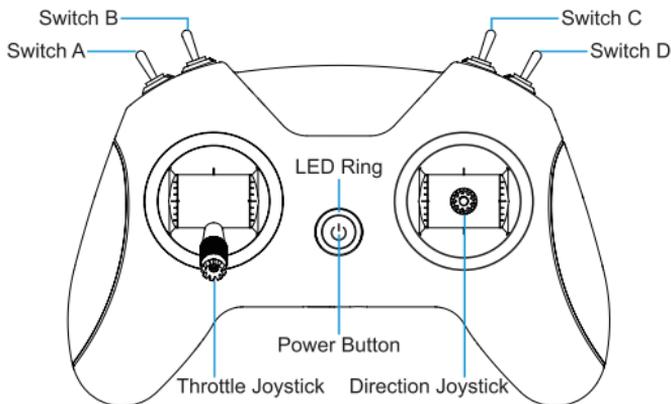
LiteRadio 2 SE Radio Transmitter

— BETA FPV Configurator Supported —

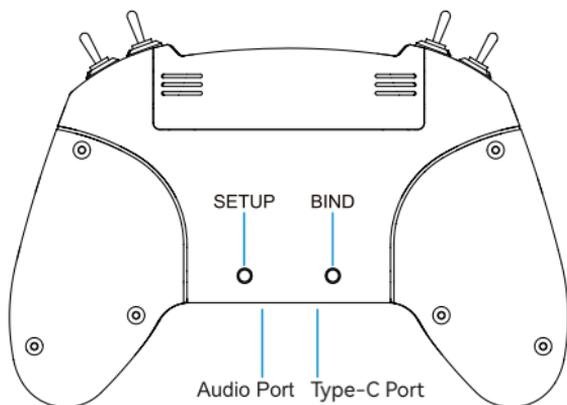
LiteRadio 2 SE is a radio controller designed primarily for RC models, including multicopters, airplanes. It gives you more than you ever thought possible from an entry level 8-channel radio.

- 8 channels in total.
- USB Joystick support for most practice simulator.
- Support BETAFPV Configurator for updating, configuring and tuning.
- 2021 popular ExpressLRS 2.4G protocol version for option.
- Built-in 1000mAh battery and USB charge supported.

The front side of the radio transmitter.



The back side of the radio transmitter.



1.Button Functions

There are three buttons on remote control radio transmitter.

- Power Button: Turn the radio transmitter off/on.
- BIND Button: Enter binding mode after radio transmitter is powered on.
- SETUP Button: Enter joystick calibration mode after radio transmitter is powered on.

2.Power On/Off

POWER ON: Long press the power button on the radio controller for 3 seconds until it beeps three times (do re mi) then release. The radio controller LED ring will flash red quickly, then remain blue.

POWER OFF: A long press of the power button on the radio controller will turn it off after three beeps (mi re do).

3.LED Indicator and Buzzer

The LED ring indicates the working status of the radio controller.

State of the LED Ring	Reason	Solution
Red light solid on	The throttle joystick or switches are not in the lowest	Lower throttle and switches to the lowest position. Turn to blue then.
Red light flashing quickly	The radio transmitter is binding	Wait for completing binding
Blue light flashing slowly	Battery reaches the low voltage limit	Charge the transmitter
Red light breathes slowly	On charging	
Green light breathes slowly	Charge complete	

The buzzer will alarm twice, indicating a low battery that needs to be re-charged.

4.Binding the Receiver

There are the steps to make the LiteRadio 2 SE enter binding status.

1. Power on the remote control radio transmitter and wait for its system to load completely. LED ring is solid blue.
2. Enter receiver's binding mode, and wait for it to bind with the radio;
3. Press the bind button on the back of the transmitter to enter binding status. The LED ring will be red and flash quickly.
4. The LED ring will change to solid blue 5 seconds later when transmitter exits binding status. If not bind successfully, repeat the process above.

5.Switching Protocol

Note: switching protocol is only available for CC2500 version radio transmitter. ExpressLRS version or Bayang version are not supported.

The CC2500 version could support 4 different protocols, including Frsky D16 FCC, Frsky D16 LBT, Frsky D8 and Futaba S-FHSS. The protocol is indicated by the flashing times of the red LED when power on, before the buzzer alarms.

LED Status	Protocol Version
Flash once	Frsky D16 FCC (ACCST 1.X Version)
Flash twice	Frsky D16 LBT (ACCST 1.X Version)
Flash Three Times	Frsky D8
Flash Four Times	Futaba S-FHSS

To change protocols (Frsky FCC D16, Frsky D16 LBT, Frsky D8, or Futaba S-FHSS), here are the steps:

1. Power the radio transmitter off;

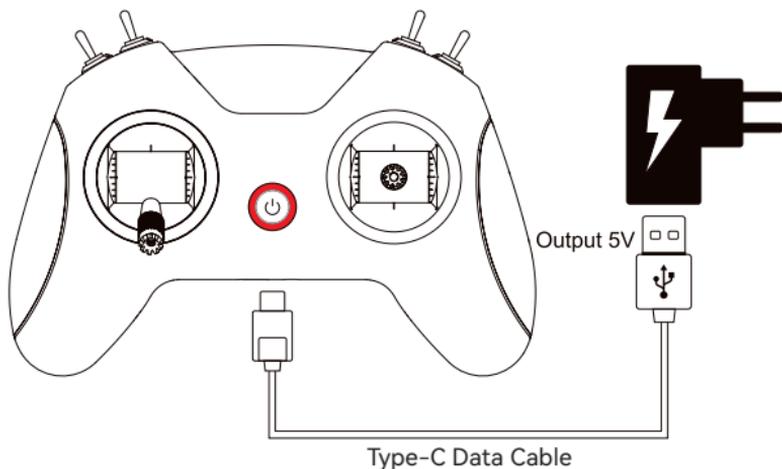
2. Press and hold the BIND button while power the radio transmitter back on;
3. Then the flash times of the red LED before buzzer alarms will change, according to the tables above.

Note: LiteRadio 2 SE only work with D16 ACCST 1.X Frsky protocol. So if you use a Frsky receiver with D16 ACCST 2.X version or ACCESS version, binding will fail.

6.Charging

Remote control radio transmitter has a built-in 1000mAh battery. When the red light flashes twice and the buzzer alarms twice, indicates that radio transmitter is low battery and needs to be re-charged. Below are the charging methods for reference:

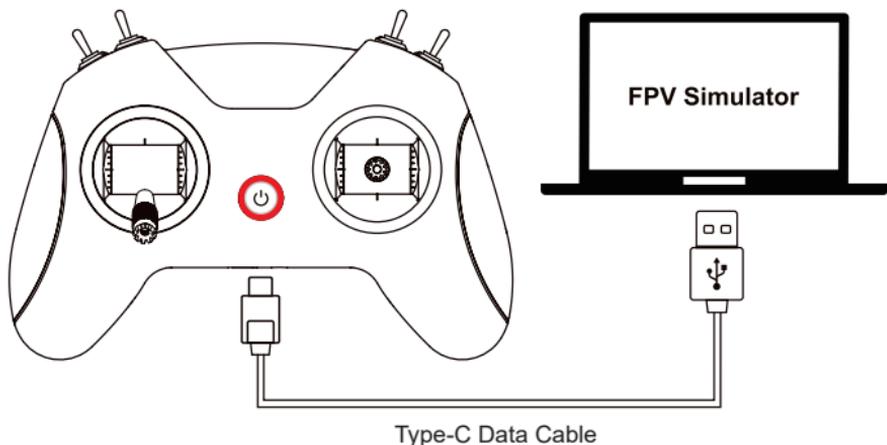
- Turn off the radio transmitter.
- Plug in remote control radio transmitter with adapter by USB cable (5V output adapter is allowed).
- The LED ring breathes in red means charging, while in green means fully charged.



The continue working time for full charged battery is about 8 hours.

7.HID Joystick

It is the safest and quickest method to get started by using FPV simulator for starters. LiteRadio 2 SE remote control radio transmitter supports most of FPV simulators on market with comprehensive configuration.



Operation steps below:

- Turn off radio transmitter.
- Connect the transmitter to computer via USB data cable. Wait for the LED ring breathes in red or green.
- Install driver from PC automatically, prompt box pops up after successful installation. Then, remote control radio transmitter works normally.



User needs to manually install driver if PC doesn't install automatically or installed incorrectly.

DO NOT power on the transmitter first and connect it to the PC. The USB port is invalid in this situation.

8. Joystick Calibration

The joystick data may offset after it has used for a period of time (if joysticks is hit by physical). User need to re-calibrate joysticks based on following steps:

- After powering on, press SETUP button on the back of remote control radio transmitter, it hears two "Bee Bee" sounds, and red LED flash quickly (two flashes each time), which means remote control radio transmitter entered calibration mode.
- Move throttle joystick and direction joystick to middle position, press SETUP button again, wait until the buzzer beep three "Bee Bee Bee" sounds, red LED light flashes quickly (two flashes each time), which indicates joystick data has been acquired and enter into the boundary value calibration mode.
- Toggle the joystick to move to the top, bottom, left, and right joystick boundaries respectively (do not to press too hard, the joystick just needs to touch the boundary) and keep the position for 1-2S, then press the SETUP button one more time, we can hear a long beeping sound (about 3 seconds) from the buzzer again, and the red LED light stops flashing, indicating that the calibration of the joystick is completed.

9. BETAFPV Configurator

BETAFPV Configurator is utility designed to simplify updating, configuring and tuning the radio transmitter.

Download address: https://github.com/BETAFPV/BETAFPV_Configurator/releases

How to enter the radio transmitter configuration page:

- Turn off the radio transmitter.
- Connect the transmitter to computer via USB data cable. Wait for the LED ring breathes in red or green.
- Open the BETAFPV Configurator program in your computer and switch to the configurator page for radio transmitter.
- Click the "Connect Radio Controller" button on the top right of the page.

How to recognise if your radio transmitter supports the BETAFPV Configurator?

Remove the cover on the back of the transmitter and there is a label, comes with "BETAFPV Configurator Supported".

DO NOT power on the transmitter first and connect it to the PC. The USB port is invalid in this situation.



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