

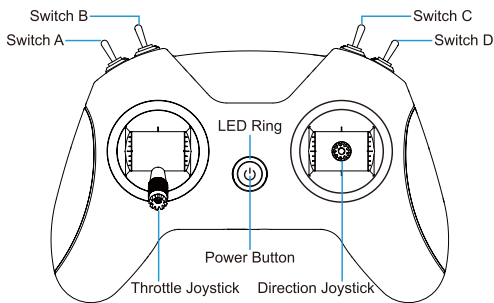
LiteRadio 2 SE Radio Transmitter

— BETA FPV Configurator Supported —

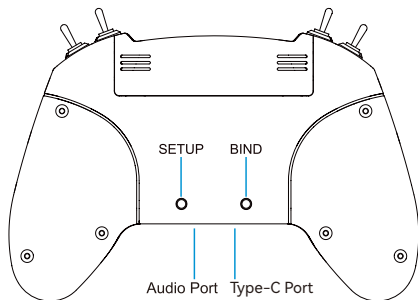
LiteRadio 2 SE is a radio controller designed primarily for RC models, including multicopters, airplanes. It gives you more than you ever thought possible from an entry level 8-channel radio.

- 8 channels in total.
- USB Joystick support for most practice simulator.
- Support BETA FPV 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 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 transmitter for 3 seconds until it beeps three times (do re mi) then release. The radio transmitter LED ring will flash red quickly, then remain blue.

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

3.LED Indicator and Buzzer

The LED light indicates the working status of the radio transmitter.

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 three times, which indicates a low battery and 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. Press the bind button on the back of the transmitter to enter binding status. The LED ring will be red and flash quickly.
3. 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 Frsky version radio transmitter. ExpressLRS version or Bayang version are not supported.

The Frsky 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;

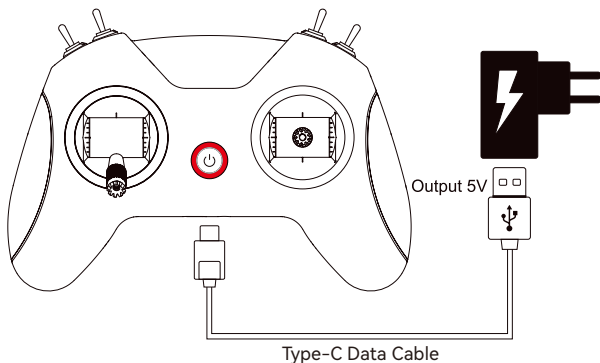
3. Then the flash times of the red LED before buzzer alarms will change, according to the tables above.

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. It indicates low battery and needs to be re-charged if blue light flashes slowly. Below charging method for reference:

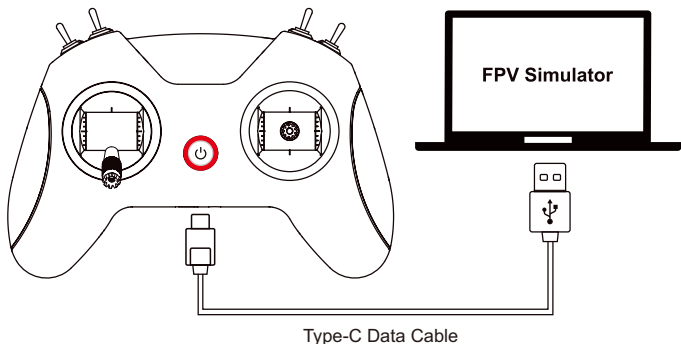
- Turn off the radio transmitter.
- Plug in remote control radio transmitter with adapter by USB cable (5V output adapter is allowed).
- The LED ring breathes in red means charging, while in green means fully charged.



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.
- Slowly rotate the throttle and direction joystick twice around the boundary of the joysticks(counter-clockwise/clockwise), then press SETUP button again, it hears a long "Bee" sound about 3 seconds. And the red LED light stops flashing, indicating that joystick calibration is complete successfully.

9. BETAFPV Configurator

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

Download address: https://github.com/BETA FPV/BETA FPV_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 BETA FPV 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 BETA FPV Configurator?

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

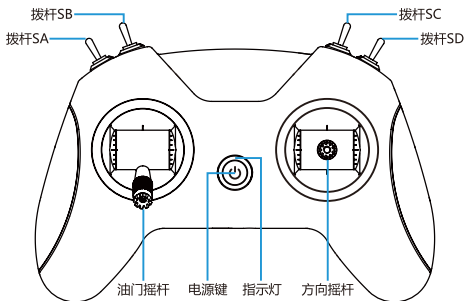
DO NOT power on the transmitter first and connect it to the PC. The USB port is invalid in this situation.

LiteRadio 2 SE遥控器是针对入门市场的一款模型遥控器。该遥控器从2020年发布以来，成为深受广大模型爱好者喜欢的手柄遥控器之一。

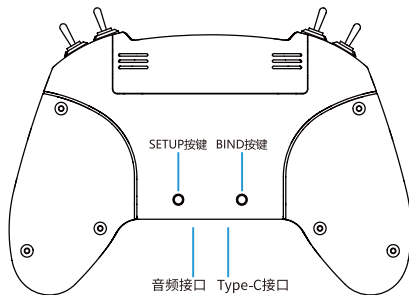
2021年我们为LiteRadio 2 SE带来了更多的功能，更多的型号。

- 支持BETA FPV Configurator上位机调参和升级；
- 在原来的Frsky版本，Bayang版本的基础上，增加了支持ExpressLRS 2.4G协议版本。

LiteRadio 2 SE遥控器正面如下图所示。



LiteRadio 2 SE遥控器背面如下图所示。



1.按键功能介绍

遥控器上有3个按键，其功能如下：

- 开机键：长按开机/关机。
- BIND键：遥控器开机状态，短按后遥控器进入对频模式。
- SETUP键：遥控器开机状态，短按后遥控器进入摇杆校准模式。

2.开机/关机

- 关机状态下，长按遥控器电源键3秒，直至听到蜂鸣器发出三声响（do re mi），同时红色LED灯亮起，然后变成蓝色常亮，遥控器开机成功。
- 开机状态下，长按遥控器电源键3秒，直到听到蜂鸣器发出三声响（mi re do），同时红色LED灯快速闪烁，遥控器关机成功。

3.LED提示灯和提示音

遥控器开关按键下有一颗RGB LED提示灯，用于提示遥控器的常见状态。

指示灯状态	状态说明	解决办法
红色常亮	开机时油门杆不在最低位	将油门杆拨到最低位
红灯快闪	处于对频过程中	等待对频完成
蓝色慢闪	电池电压过低	给遥控器充电
红灯渐变闪烁	充电中	
绿灯渐变闪烁	充电完成	

遥控器内置了一个蜂鸣器，当它连续重复报警三次时，说明电量过低，需要给遥控器充电。

4. 遥控器绑定接收机

在开机状态下，按下遥控器背面的BIND按键，遥控器将进入绑定状态，该过程为持续5秒的红灯闪烁，待停止闪烁后，绑定过程结束。

1. 遥控器开机，确保LED灯环处于蓝色常亮；
2. 按一下遥控器背面的BIND按键，遥控器正面的电源按键灯会呈现红色闪烁，此时遥控器进入时间为5秒的对频状态；
3. 接收机进入对频状态，与遥控器对频；
4. 5秒之后遥控器自动退出对频状态，检查遥控器是否对上接收机；如果没有，请重复上面第二步操作。

5. 遥控器协议查看与切换

注意：本章节只适用于Frsky协议遥控器。Bayang协议的遥控器，ExpressLRS协议遥控器，协议不可以切换。

关机状态下，按电源键开机，在BB响发出声音之前，可以看到红灯闪烁，闪烁次数代表当前协议类型，具体如下：

红灯闪烁次数	协议版本
闪烁一次	Frsky D16 FCC (ACCST 1.X 版本)
闪烁两次	Frsky D16 LBT (ACCST 1.X 版本)
闪烁三次	Frsky D8
闪烁四次	Futaba S-FHSS

如何切换协议：

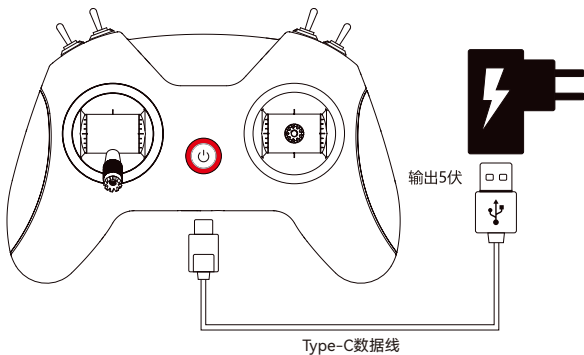
在关机状态下，先按住遥控器背面的BIND按键，同时按电源键开机，此时红色LED灯闪烁次数将发生变化，红灯闪烁完毕协议即切换成功，其闪烁次数表示下次开机的协议版本。

注意：LiteRadio 2 SE只能够支持D16 ACCST 1.X版本的协议。如果使用Frsky官方接收机，且该接收机为D16 ACCST 2.X或者ACCESS协议，则无法对频连接使用。

6.低电量警报及充电

遥控器已经内置了1000mAh的电池，无需再外接电池。蓝灯慢闪烁，表示遥控器电池电量较低，需要重新充电。充电方式如下：

- 关闭遥控器；
- 使用USB线连接遥控器和适配器（5V输出的适配器即可，例如手机充电器）；
- 红灯渐变闪烁，表示正在充电中；绿灯渐变闪烁，表示充电结束。

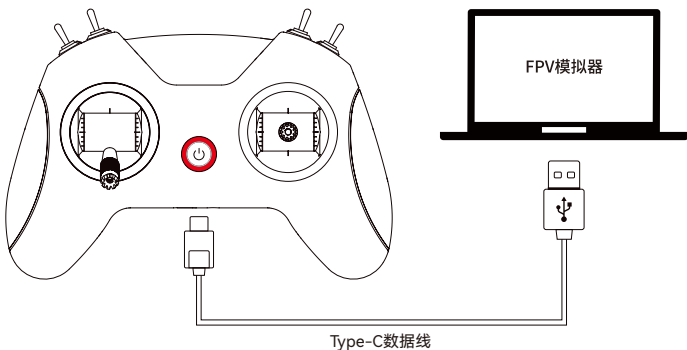


电池充满，可以连续使用8小时左右；

电池充满，关机放置，可以保证30天电池电量仍保持在80%左右。

7.HID Joystick模式使用

在连接个人电脑后，LiteRadio 2 SE遥控器可作为USB游戏手柄使用，可以用来练习FPV模拟器。具体步骤如下：



- 遥控器关机；
- 使用一根USB数据线连接遥控器和PC电脑，遥控器LED变为红色或者绿色渐变闪烁；
- PC会自动安装驱动，驱动安装成功后弹出提示框，说明电脑已经成功识别到此遥控器并可以正常使用。

 正在设置设备
正在设置“BETA FPV JoyStick”。

其他设备



BETA FPV JoyStick

若无法正常识别出遥控器，则可能是电脑没有自动安装驱动，或者识别了错误的驱动程序，需要重新安装驱动。

注意：遥控器开机状态下连接到电脑，USB口无信号输出，无法使用Joystick功能。

8.摇杆校准

遥控器在使用一段时间之后，例如摇杆受到较重的物理撞击，可能会出现摇杆值发生偏移的情况。这个时候可以通过校准摇杆值，确保其摇杆值处于中位。

- 在开机状态下，按一下遥控器背面的SETUP按键，待听到蜂鸣器持续的发出滴滴声（2声），同时红色LED快速闪烁（每次闪烁两下），表示进入校准模式。
- 将两边的摇杆都移动至中间位置，再次按一下SETUP按键，待蜂鸣器持续发出滴滴声（3声），同时红色LED灯快速闪烁（每次闪烁两下），表示摇杆中值已经校准完毕，并进入边界值校准。
- 拨到摇杆，使其环绕摇杆边界缓慢转动两圈（逆时针/顺时针都可以），接着再次按一下SETUP按键，再听到蜂鸣器发出一声长时间滴声（大概3秒），且红色LED灯停止闪烁，表示摇杆校准完毕。

9. BETA FPV Configurator 基本使用

BETA FPV 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/BETA FPV/BETA FPV_Configurator/releases

如何进入遥控器参数配置页面：

- 遥控器关机；
- 用USB数据线将遥控器连接到电脑，LED灯红色或者绿色渐变闪烁，遥控器被识别为HID设备；
- 打开BETA FPV Configurator，切换到遥控器配置程序页面；
- 点击右上角“连接遥控器”按钮，进入遥控器参数设置页面。

注意：遥控器开机状态下连接到电脑，USB口无信号输出，无法使用连接到Configurator。

可以进行的配置内容包括：

- 切换摇杆模式（即日本手、美国手）；
- 射频模块的配置（开启关闭内置、外置射频模块）；
- ExpressLRS系统参数配置（射频模块为ExpressLRS系统时有效）；
- 各通道的混控，微调等切换。

如何判断手里的遥控器是否支持BETA FPV Configurator上位机调参？

- 取下遥控器后面的电池盖，可以看到有一张铭牌，上面写着BETA FPV Configurator Supported；
- 遥控器主板右上角有V2的丝印。

注意：老版本遥控器无法使用BETA FPV Configurator上位机调参。



Instagram



Facebook



Youtube



BETAFPV