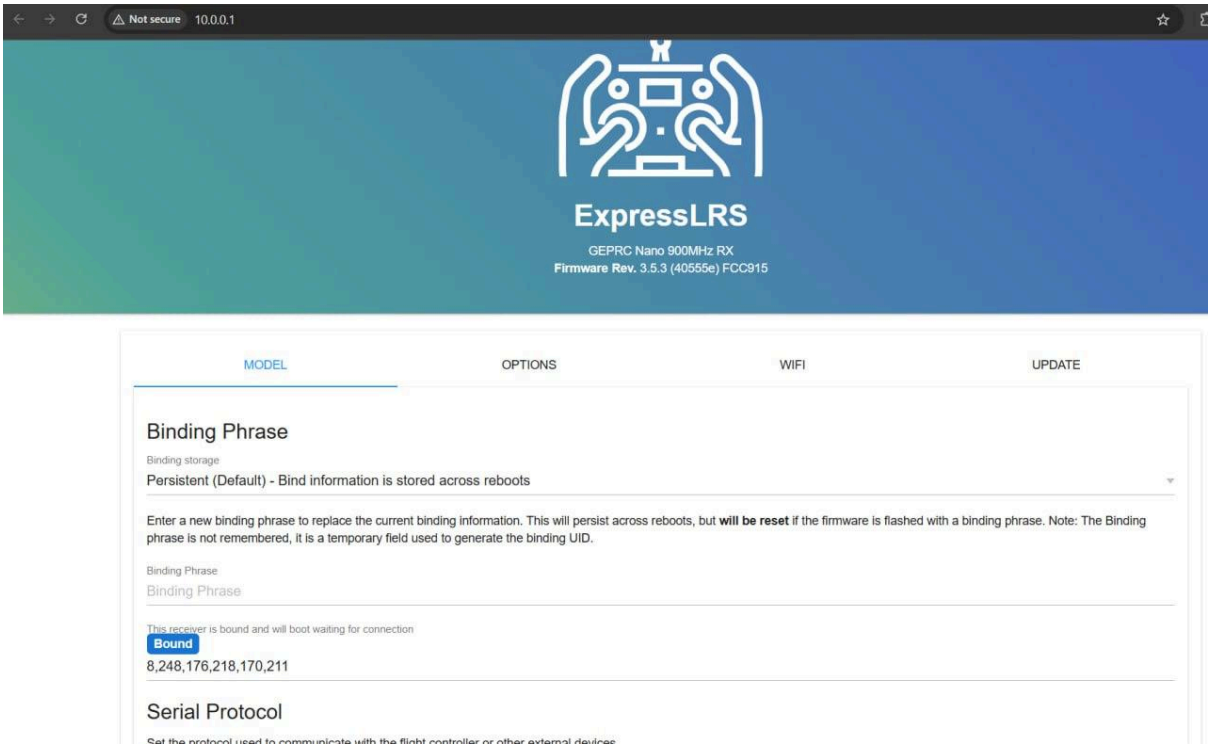
Connecting BetaFPV Transmitter to Receiver

Step 1: Power on the flight controller and Receiver using a USB Cable (Check the blue light on the receiver)

Step 2: Look for a wifi Called **“ExpressLRS RX”** on your computer and connect to it using password **“expresslrs”**

Step 3: Open a Browser and search **“10.0.0.1”** in the URL bar. The following page should appear:

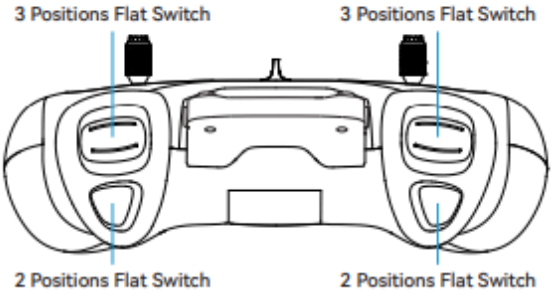


- **In the binding phrase field name any binding phrase e.g., “Drones123”, but make sure to stay consistent with the binding phrase throughout the setup.**

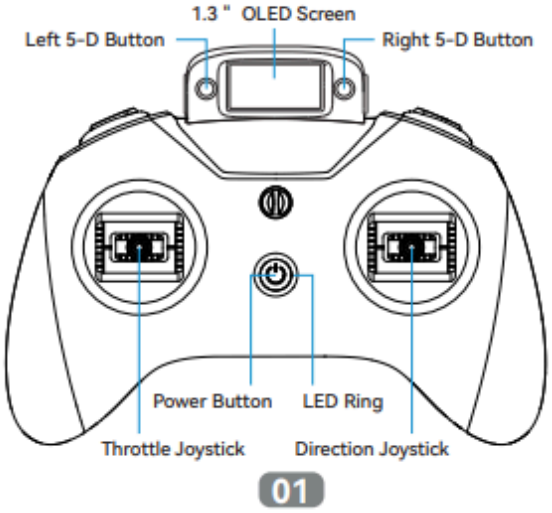
- **Scroll Down and press the Flash Button to flash the firmware on the receiver.**

Diagrams of the LiteRadio 3 Pro are as below.

Top view:



Front view:



Step 4: Disconnect from the wifi **"ExpressLRS RX"**, Turn on the BetaFPV Transmitter and press hold the right 5-D button, there will be two modes 1. Int-CRSF (for internal transmitter) 2. Ext-CRSF (for external transmitter), select the one required

Step 6: Move the right 5-D button to the left and hold for 1 second. A screen named **Tools** will be opened, scroll down to select **ExpressLRS** by pressing the button.

Step 7: Scroll down to the option of enable wifi and select enable wifi.

Step 8: Now you can see the Wifi **"ExpressLRS TX"** on your computer**,** connect to it using the same password. This is the transmitter wifi that should appear after turning the transmitter on and performing step 4-7

Step 5: Repeat the firmware flashing procedure (Step 3) for the Transmitter. Remember to put in the same binding Phrase as the receiver. Now the RC should be connected to the receiver.

Step 6: Check the blue light on the receiver, it should be stable and not blinking. A guide for different light outputs is given in the following table:

Also Check the manual:

https://support.betafpv.com/hc/en-us/article_attachments/5987442217881

Connecting to MissionPlanner, Testing, and Setting the Parameters

Step 1: Connect the Flight Controller with MissionPlanner.

Step 2: Go to the Setup Tab in the top Left Ribbon and Expand **Mandatory Hardware**. In the Mandatory Hardware open the **RadioCalibration** Option. Move the joysticks up and down and see the Green bars moving. If it's moving it confirms the RC is connected.

Step 3: Press hold the **right 5-D** button and select the Internal or External CRSF as required, by press holding it again. Now move this right 5-D joystick to the right and traverse through the windows till you reach **Mixes.**

Step 4: Here you should see a list of channels that correspond to different buttons on the Transmitter as shown in the Figure above. Use the 5-d joystick to scroll down and check if 8 channels are available and correspond to the correct gimbles and buttons on the Radio. If anything is mismatching (e.g., Ch1 is Ail while it should be Thr) press hold and change.

Step 5: Connect to MissionPlanner and go to the Radio Calibration tab again. Check the buttons set in step 4 by pressing them and the corresponding green bars should respond.

Step 6: Go to the **Config** Tab in MissionPlanner and open the **Full Parameter List** option. You'll find a Search bar in the Right most Column of the window. Click on it and search the channel that you want to setup. E.g., if you want to set channel 5, type **RC5,** if channel 6 then **RC6** and so on**.** A list of options related to the particular channel should open. Locate for **RC5_OPTION** and in the dropdown of the options column select your desired function. E.g., for **ARM/Disarm** select **"ArmDisarm with AirMode (4.2 and higher),** and for making a Kill switch select **"Motor Emergency Stop".**

Step 7: After changing any parameter click on the **"Write Params"** Button in the right most column to write the parameters. After writing, disconnect the flight controller and connect again. Finally test the functionality of the buttons in the Data Tab.

Make sure no conflicting params are assigned to a particular button. Especially check the FLTMODE_CH parameter and check if it's conflicting with another channel.