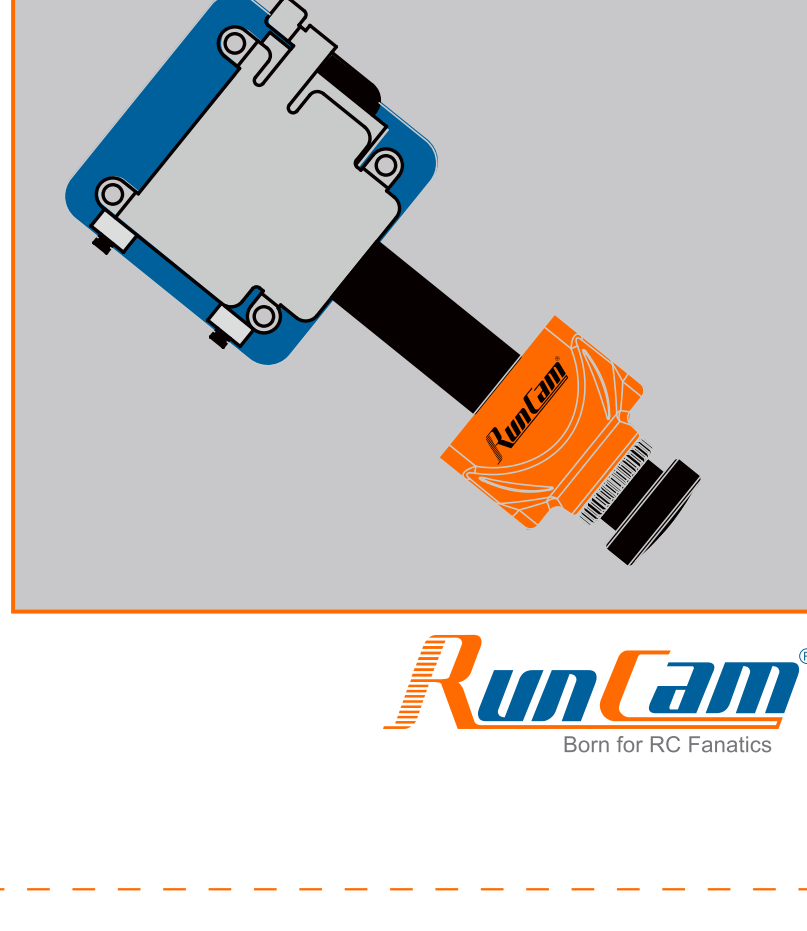
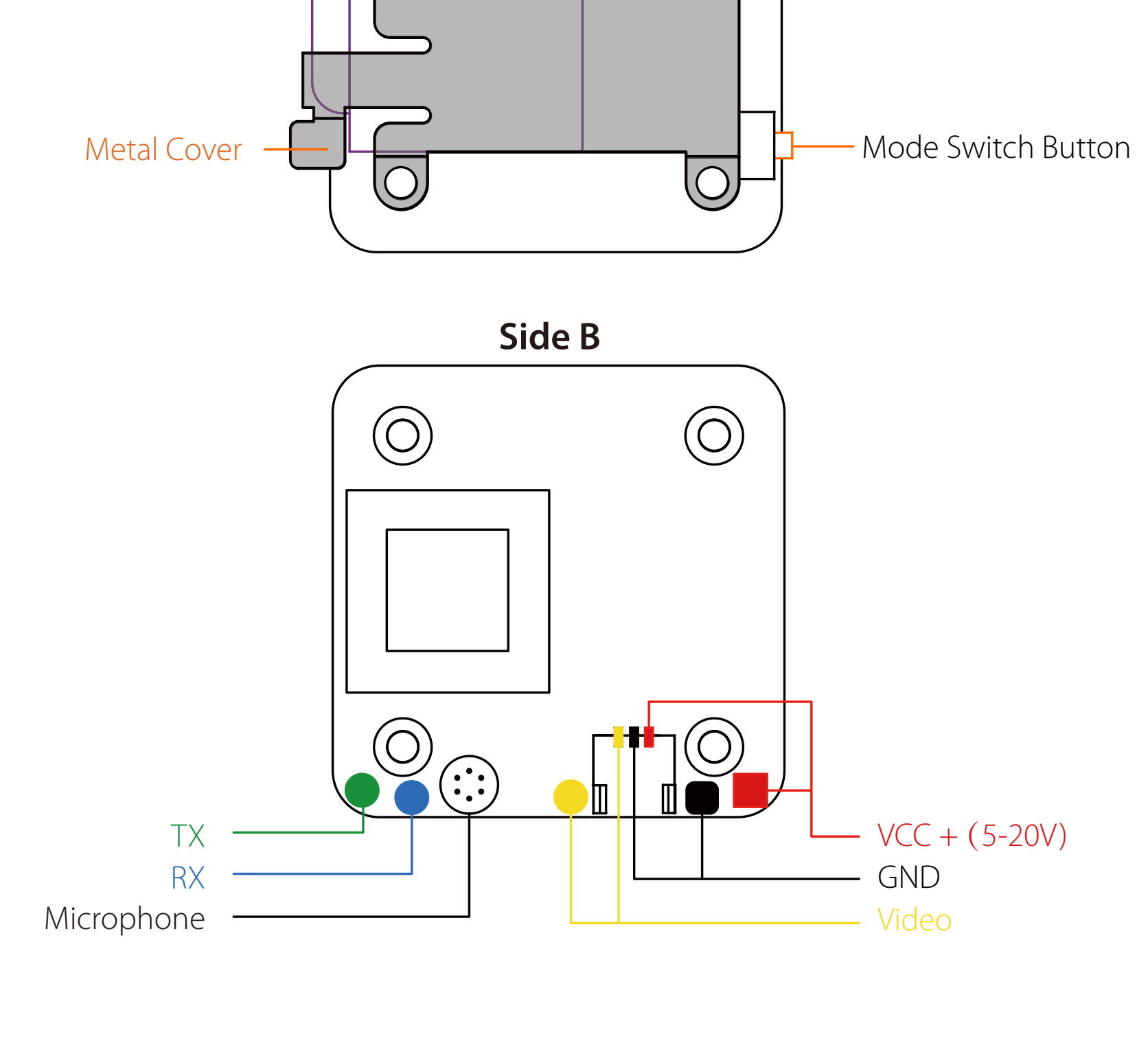


RunCam Split Mini 2 User Manual

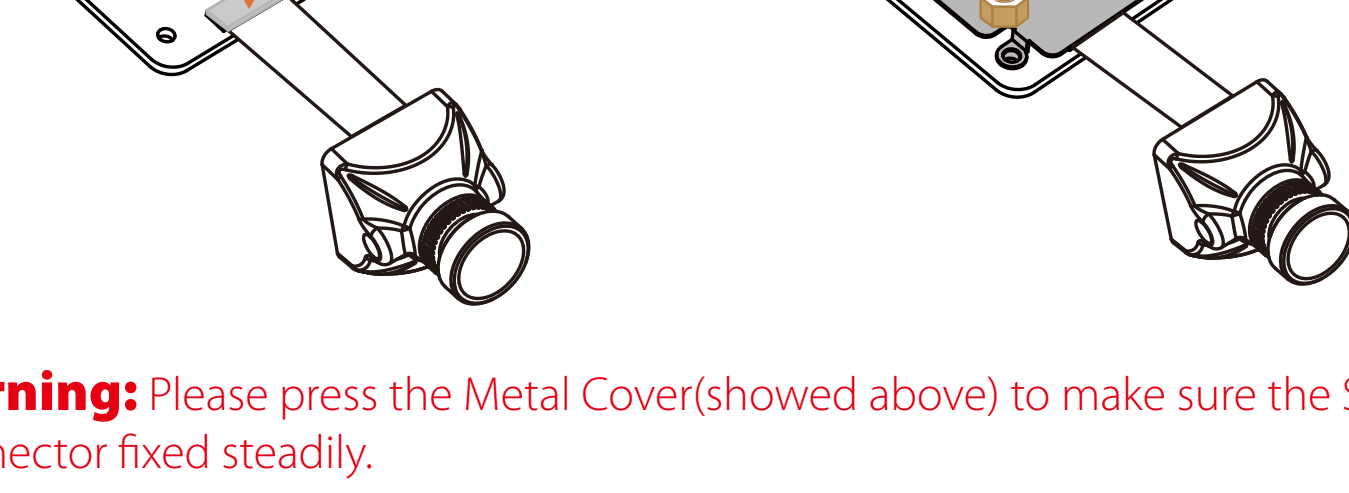


RunCam
Born for RC Fanatics

Instruction Diagram



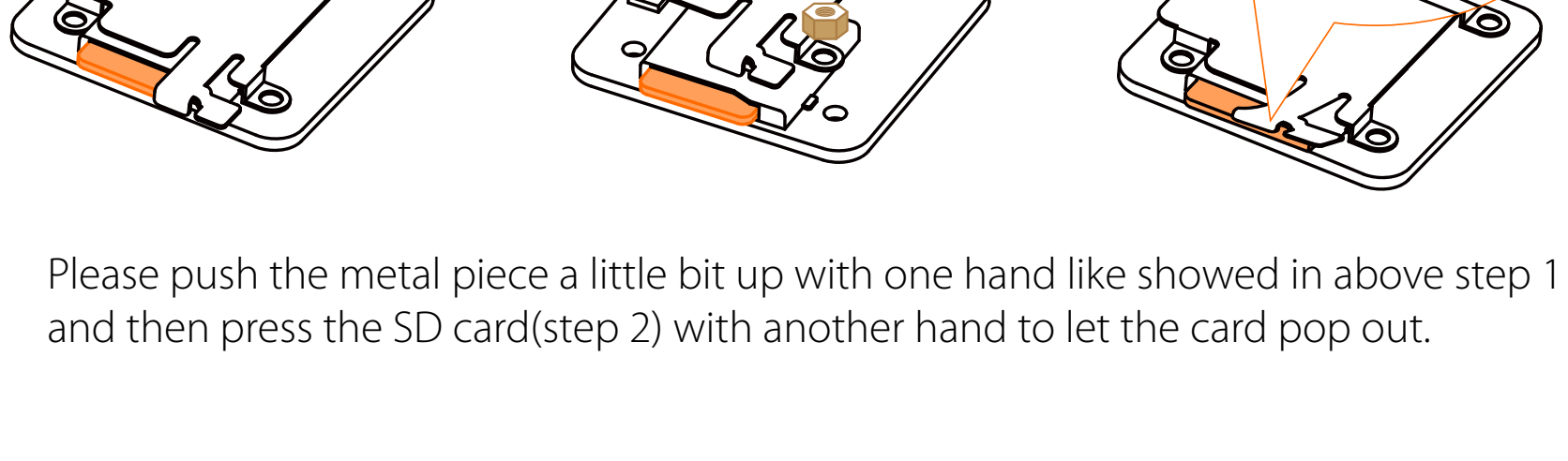
Lens Module Connection Diagram



Warning: Please press the Metal Cover (shown above) to make sure the Sensor Connector fixed steadily.

Micro SD Card

Capacity up to 64GB; Please use high speed cards (Class 10/UHS-I/UHS-II)



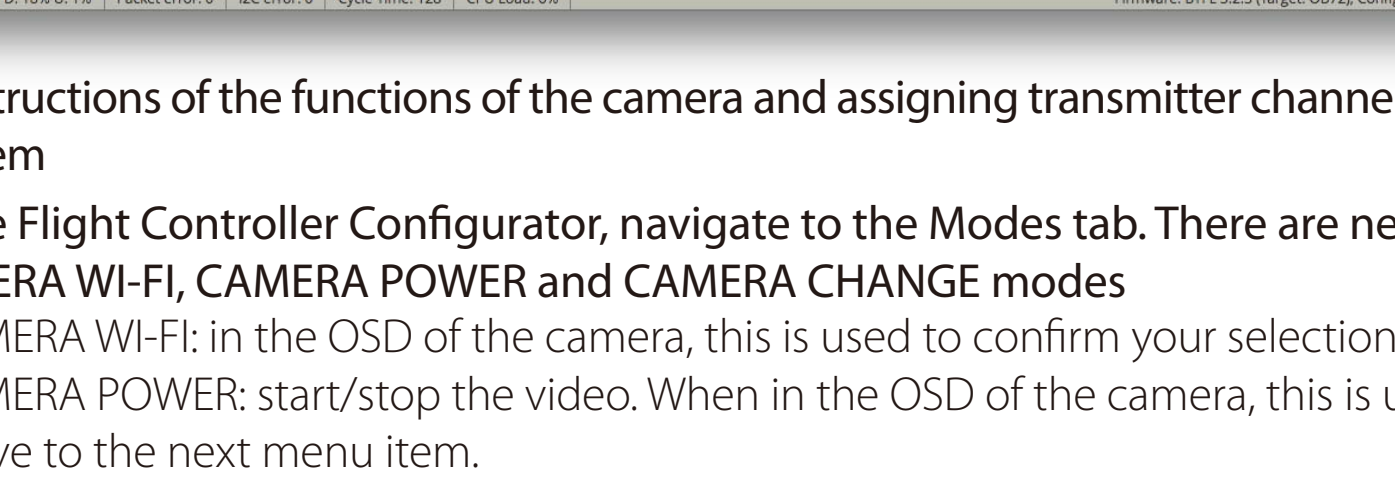
Please push the metal piece a little bit up with one hand like showed in above step 1 and then press the SD card (step 2) with another hand to let the card pop out.

Basic Camera Operation

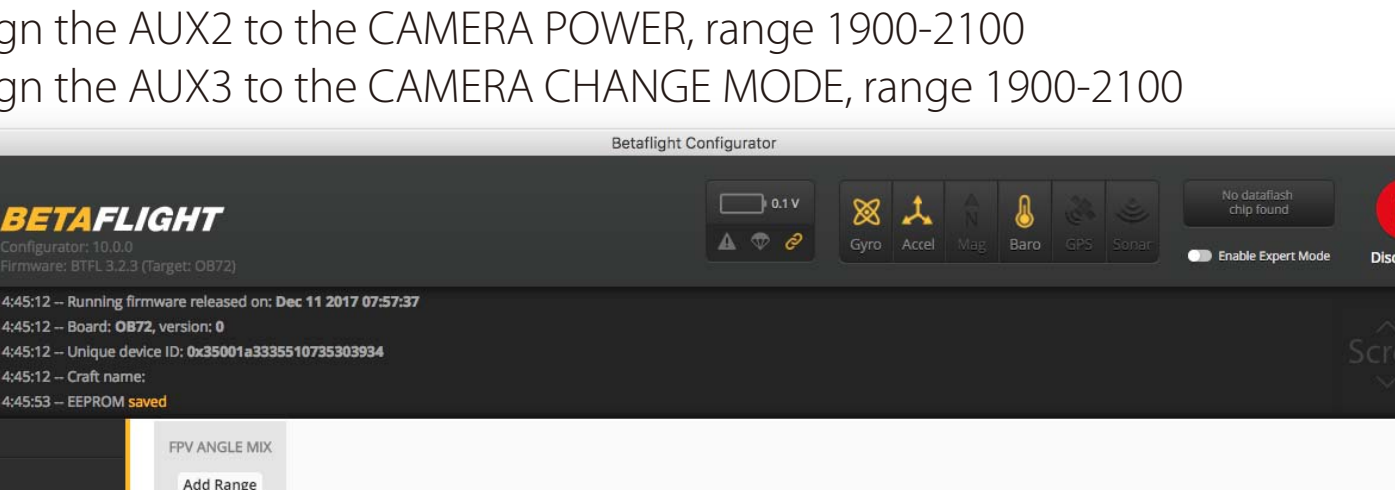
Powering On/Off	Long press the Power/Shutter button
Standby Mode	Camera Status Light: Blue is On
Mode Switching	In Standby Mode, long press the Mode Switch button to cycle through the three modes: Video/Photos/OSD settings.
Video Mode	Camera Status Light: Blue blinks Press the Power/Shutter button to start/stop recording.
OSD Setup Mode	Camera Status Light: Orange is On • Press the Power/Shutter button to move to a setting. • Short press the Mode Switch button to change setting. • Long press the Mode Switch button to exit the menu.
Firmware Upgrading	Camera Status Light: Orange blinks https://goo.gl/5Mq8zw
Forced Shutdown	Simultaneously press the Power/Shutter button and Mode Switch button.
Reset	In standby mode, press the Mode Switch button three times in rapid succession (within 2 seconds). When resetting is complete, the status light (orange) blinks twice, and the camera automatically shuts down.

Transmitter Connection Diagram

Method One (Recommended): Connect the Split mini PCB and the PDB with the silicone cable



Method Two: connect by the soldering pads



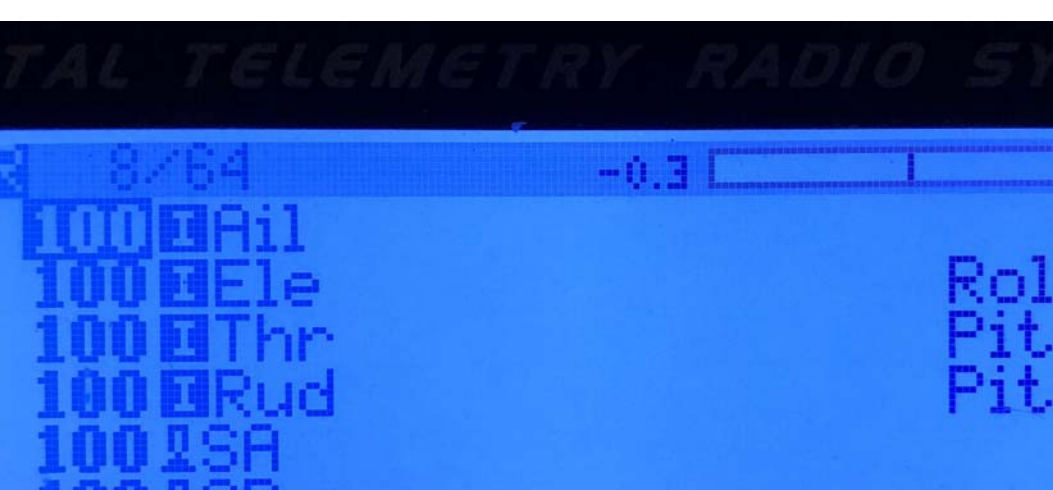
Warning: Current Input $\geq 1A$ (Don't powered by VTx)

Flight Controller Set

Preparation

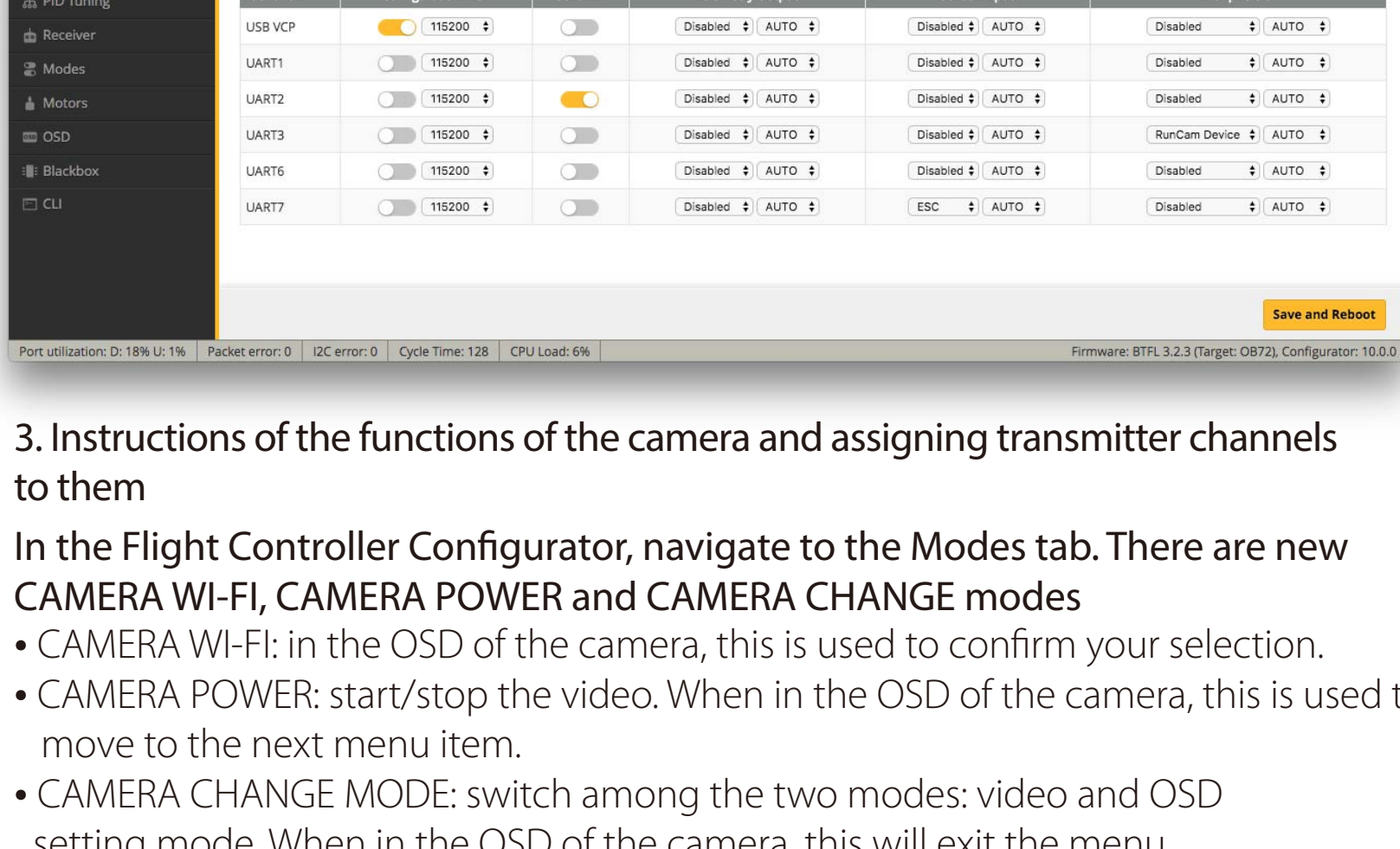
- Firmware: CleanFlight ($\geq 2.1.0$) / BetaFlight ($\geq 3.2.0$)
- Any available UART interface on the Flight Controller

1. Connect the RunCam Split Mini 2 with the UART interface of the Flight Controller



2. Make the Flight Controller recognize the RunCam Split Mini 2

For example, we connect the RunCam Split Mini 2 to the UART 3 interface on the Flight Controller: connect the Flight Controller. (Open up the configurator that matches the firmware you are running, Betaflight Configurator for Betaflight, Cleanflight Configurator for Cleanflight). In the Peripherals column of the line UART3 (on the Ports tab), select RunCam Device and click Save And Reboot.



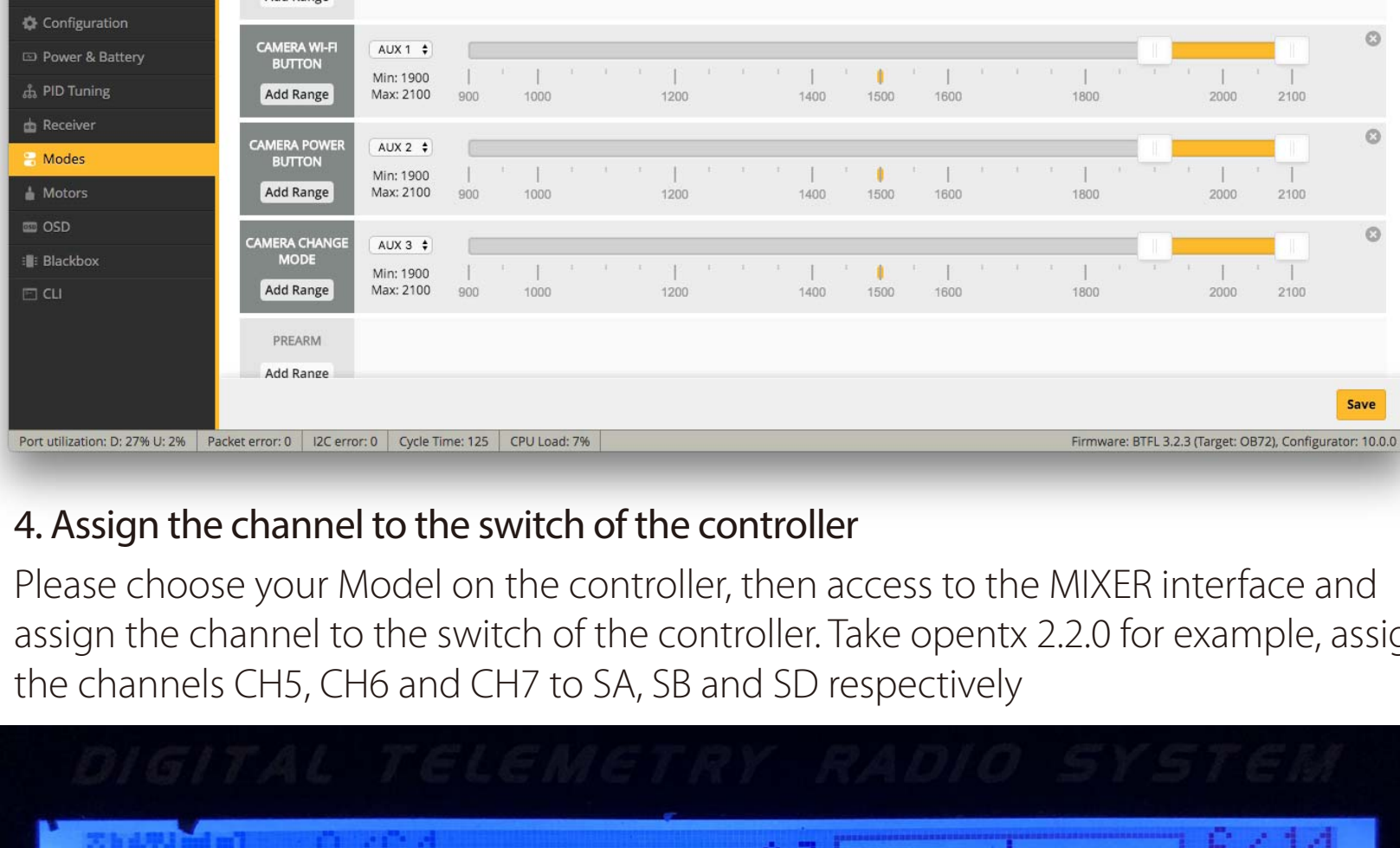
3. Instructions of the functions of the camera and assigning transmitter channels to them

In the Flight Controller Configurator, navigate to the Modes tab. There are new CAMERA WI-FI, CAMERA POWER and CAMERA CHANGE modes

- CAMERA WI-FI: in the OSD of the camera, this is used to confirm your selection.
- CAMERA POWER: start/stop the video. When in the OSD of the camera, this is used to move to the next menu item.
- CAMERA CHANGE MODE: switch among the two modes: video and OSD setting mode. When in the OSD of the camera, this will exit the menu

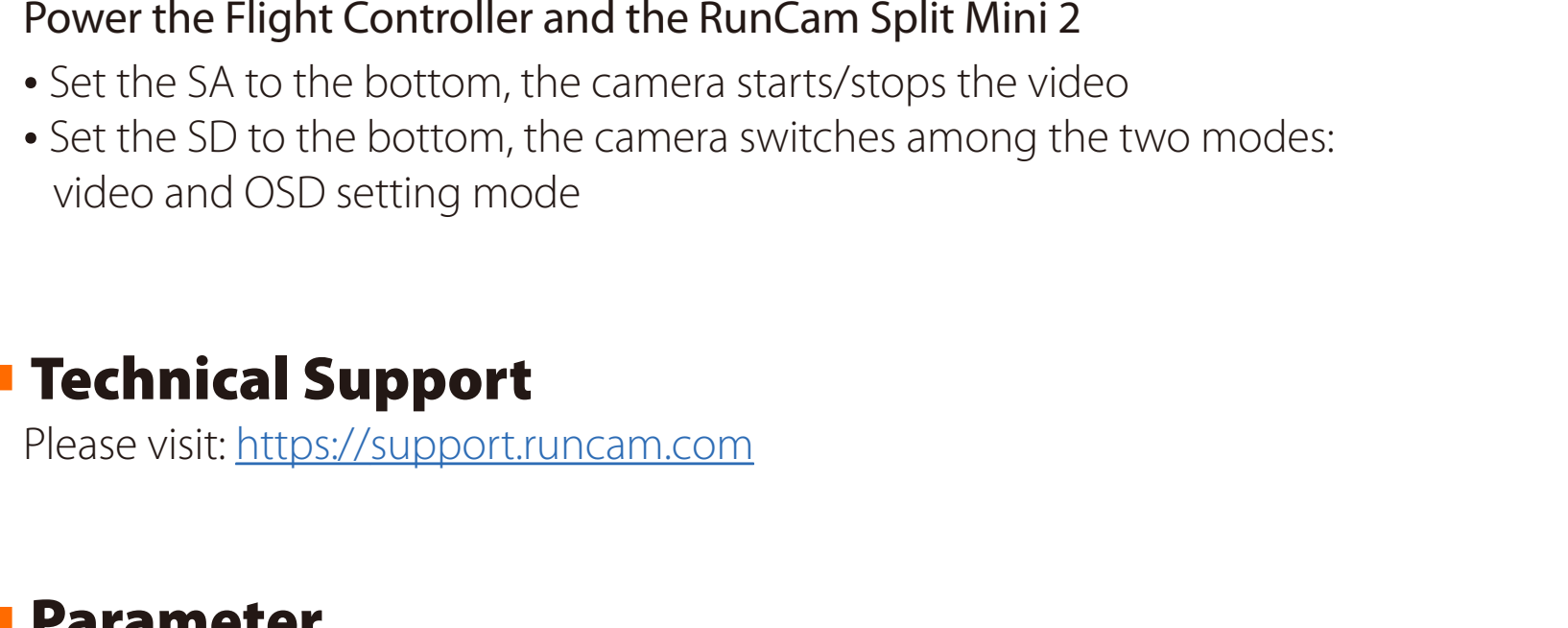
Assign any available channel to the function you need, for example:

- Assign the AUX1 to the CAMERA WI-FI, range 1900-2100
- Assign the AUX2 to the CAMERA POWER, range 1900-2100
- Assign the AUX3 to the CAMERA CHANGE MODE, range 1900-2100



4. Assign the channel to the switch of the controller

Please choose your Model on the controller, then access to the MIXER interface and assign the channel to the switch of the controller. Take optentx 2.2.0 for example, assign the channels CH5, CH6 and CH7 to SA, SB and SD respectively



5. Test

Power Flight Controller and the RunCam Split Mini 2

- Set the SA to the bottom, the camera starts/stops the video
- Set the SD to the bottom, the camera switches among the two modes: video and OSD setting mode

Technical Support

Please visit: <https://support.runcam.com>

Parameter

Field of View(FOV)	FPV FOV 130°/Recording FOV 165°
Video Resolution	1080@60fps/1080@30fps/720@60fps
Video File Format	MOV
Image Resolution	2 MP
TV Mode	NTSC (720*480)/PAL (720*576) Switchable
Interface	Micro USB / UART
Max Micro SD Card Supported	64G(need Class 6 or above, recommend Class 10/UHS-I/UHS-II/UHS-III)
Hole Distance of Installation	20*20mm
Dimensions	PCB 29*29mm / Lens Module 19*19mm
Power Input	DC 5-20V
Working Current	650mA @5V/270mA @12V
Weight	12.5g