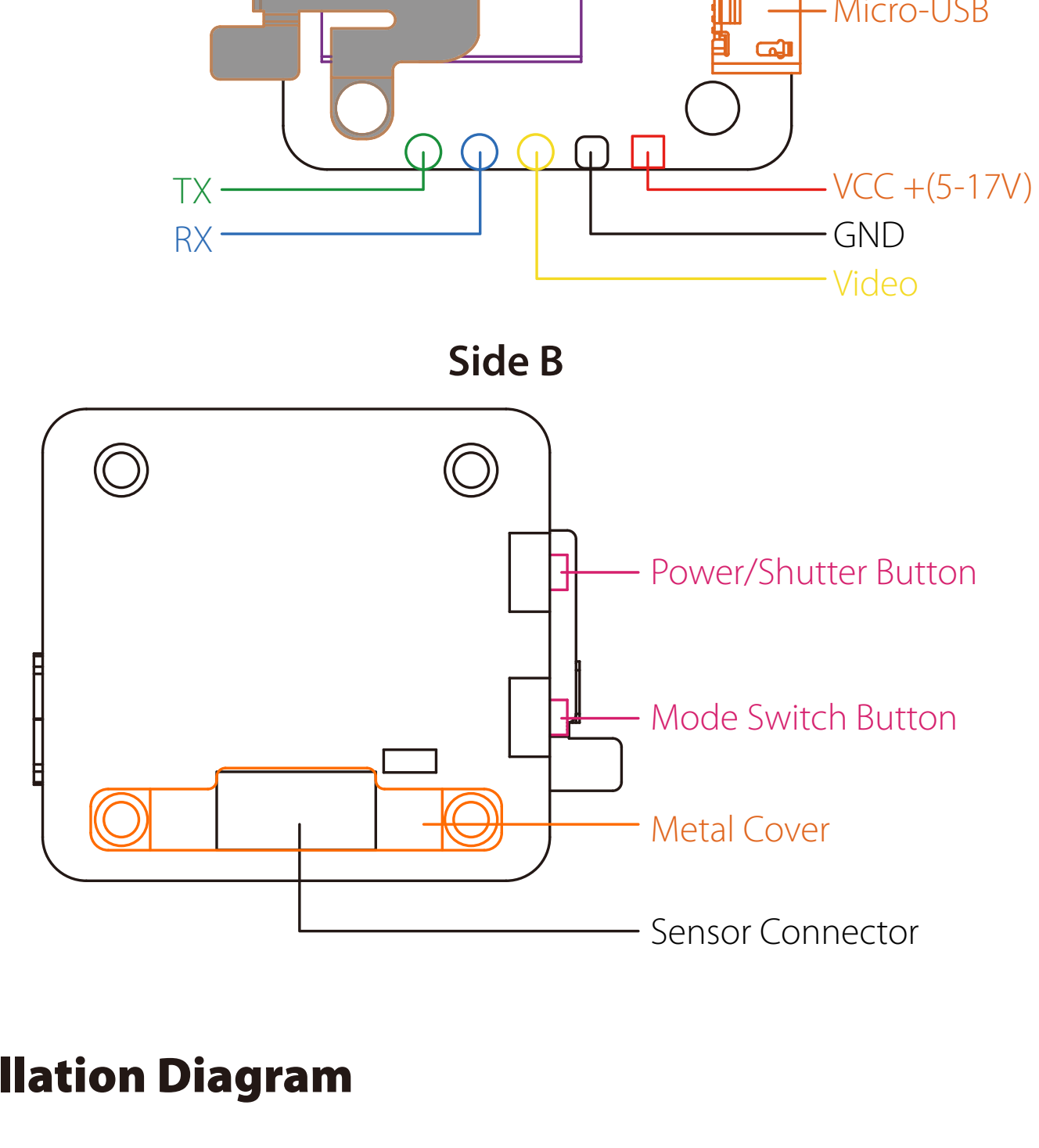


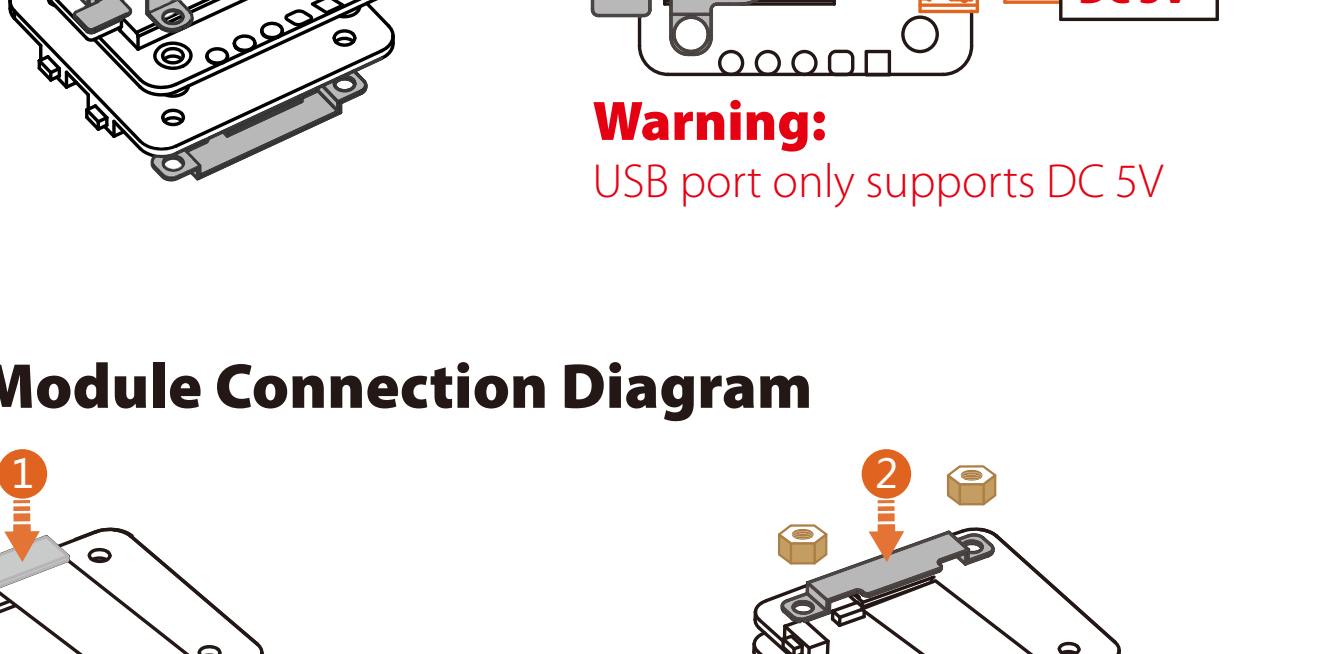
# RunCam Split Mini User Manual



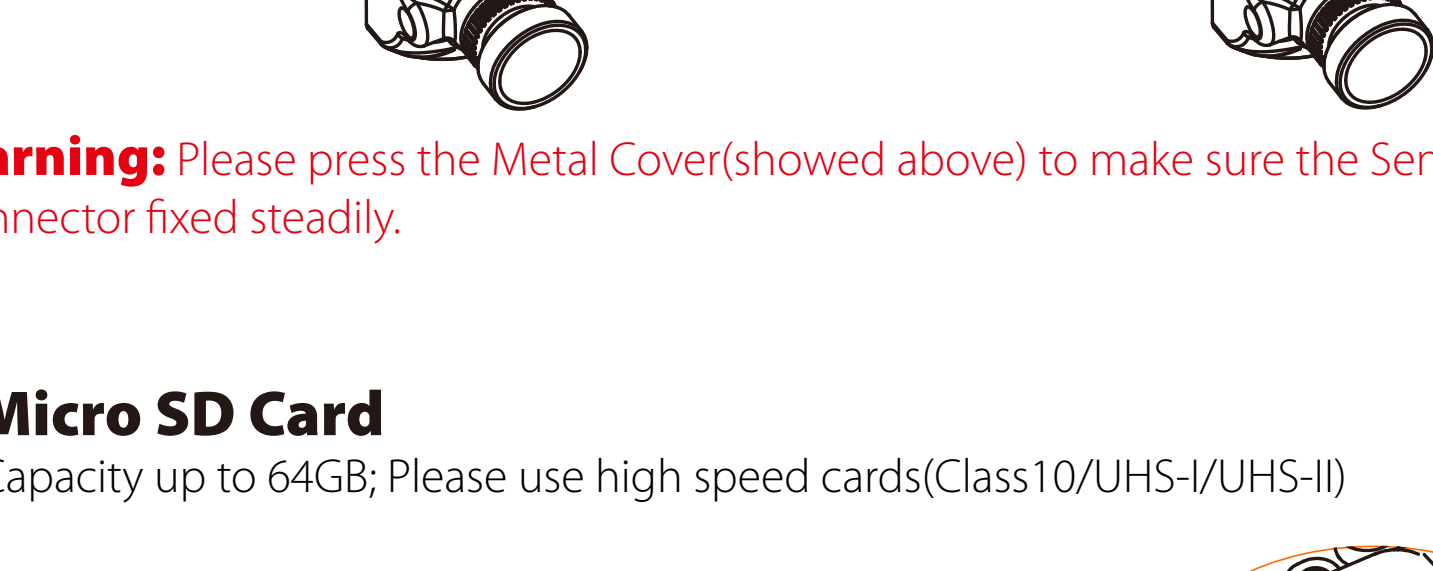
## Instruction Diagram



## Installation Diagram

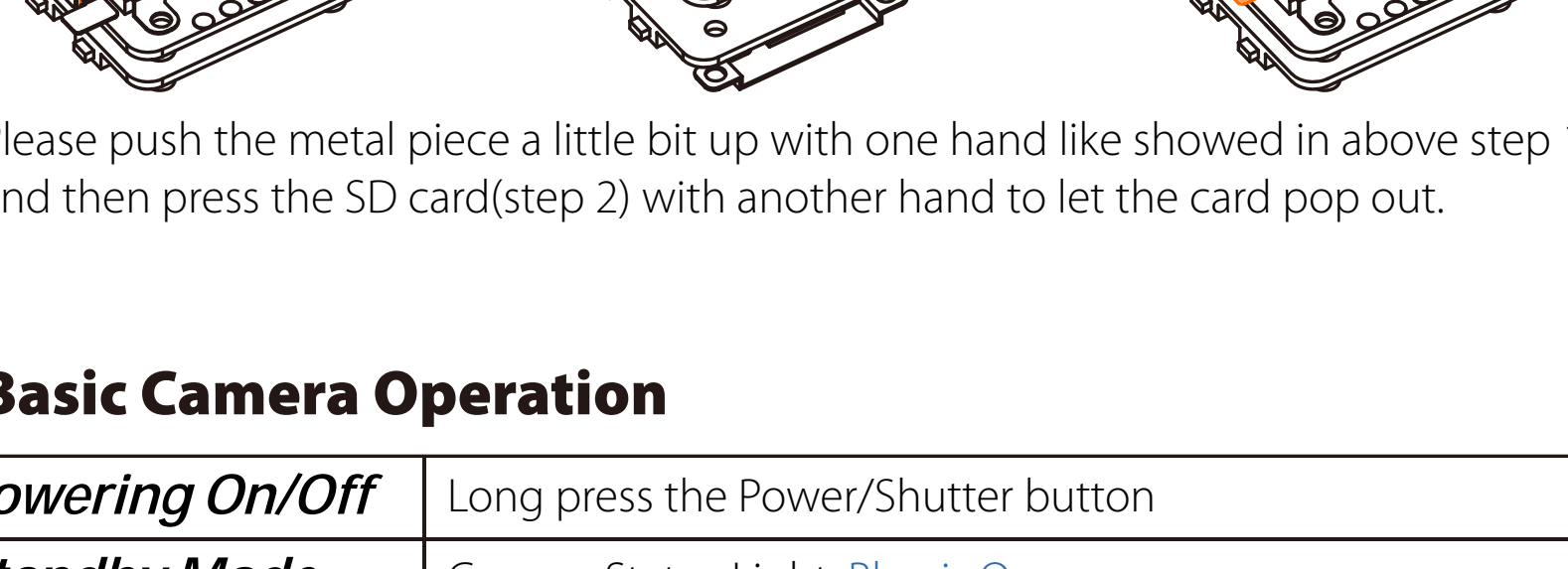


## Lens Module Connection Diagram



## Micro SD Card

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



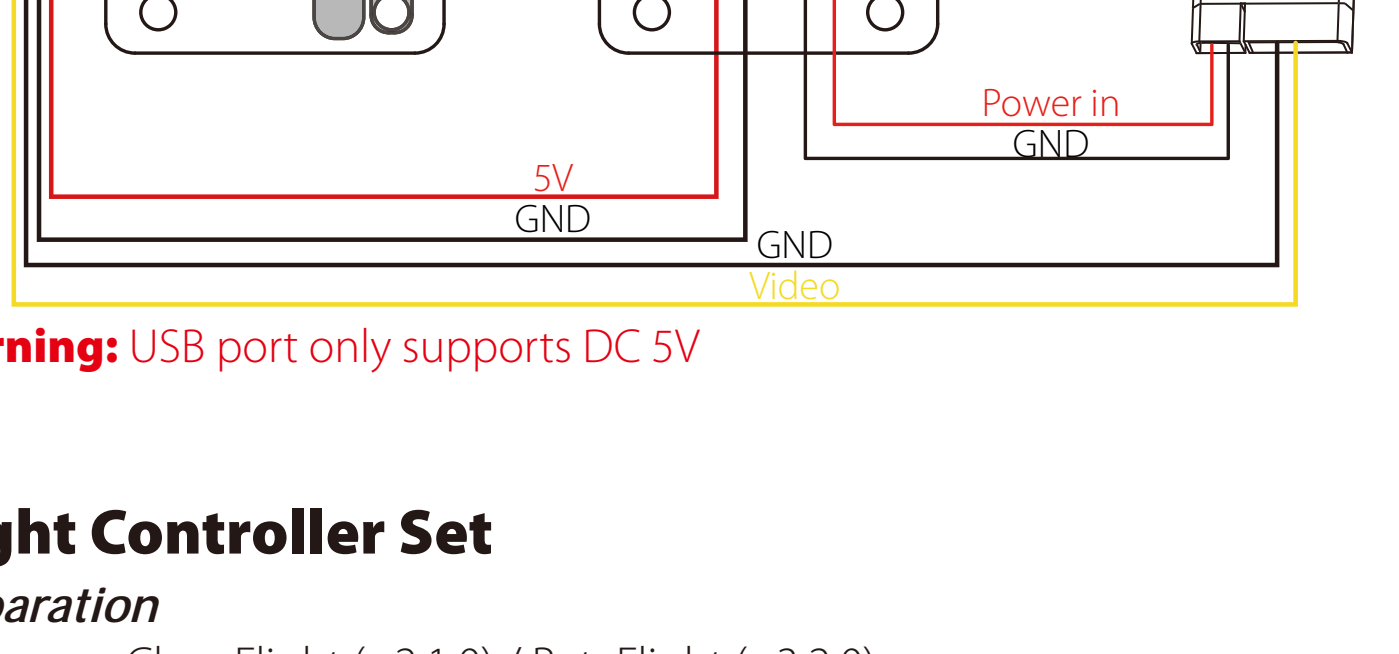
Please push the metal piece a little bit up with one hand like showed in above step 1 and then press the SD card (step 2) with another hand to let the card pop out.

## Basic Camera Operation

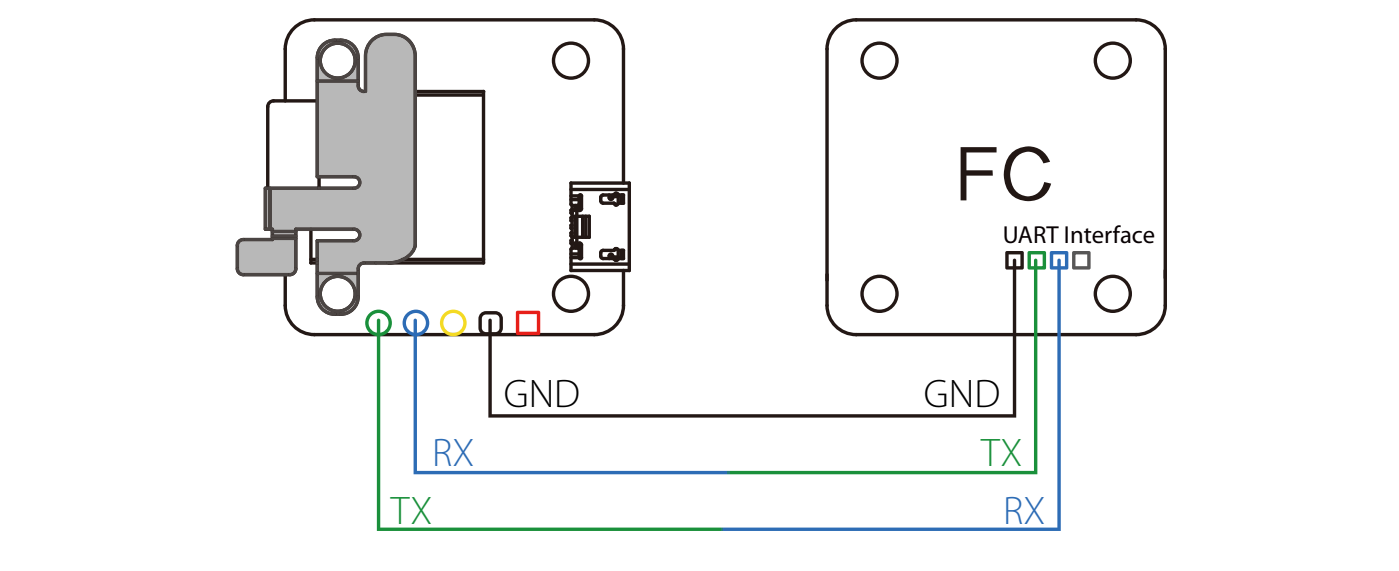
<b>Powering On/Off</b>	Long press the Power/Shutter button
<b>Standby Mode</b>	Camera Status Light: <b>Blue is On</b>
<b>Mode Switching</b>	In Standby Mode, long press the Mode Switch button to cycle through the three modes: Video/Photos/OSD settings.
<b>Video Mode</b>	Camera Status Light: <b>Blue blinks</b> Press the Power/Shutter button to start/stop recording.
<b>OSD Setup Mode</b>	Camera Status Light: <b>Orange is On</b> • Press the Power/Shutter button to move to a setting. • Press the Mode Switch button to select. • Long press the Mode Switch button to exit the menu.
<b>Firmware Upgrading</b>	Camera Status Light: <b>Orange blinks</b> <a href="https://goo.gl/5Mq8zw">https://goo.gl/5Mq8zw</a>
<b>Forced Shutdown</b>	Simultaneously press the Power/Shutter button and Mode Switch button.
<b>Reset</b>	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 by the soldering pads



**Method Two:** connect by the TV-out and power USB cable



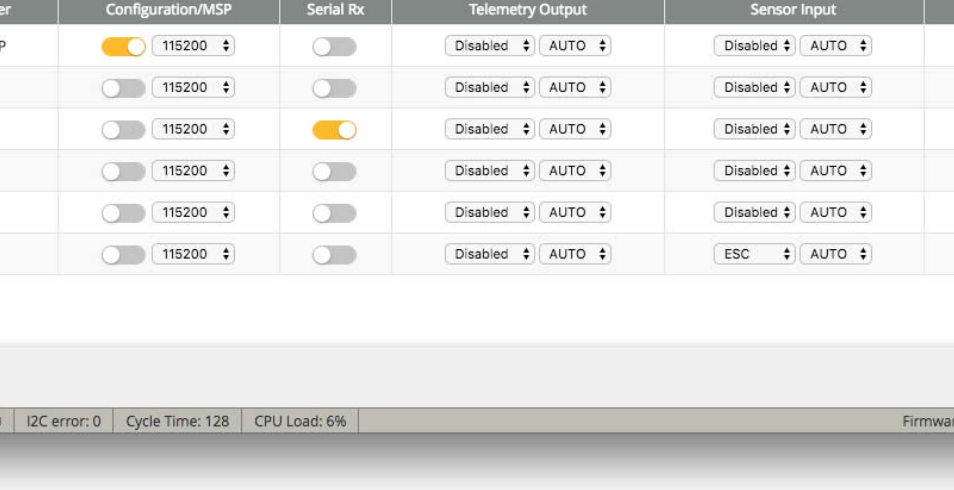
**Warning:** USB port only supports DC 5V

## Flight Controller Set

### Preparation

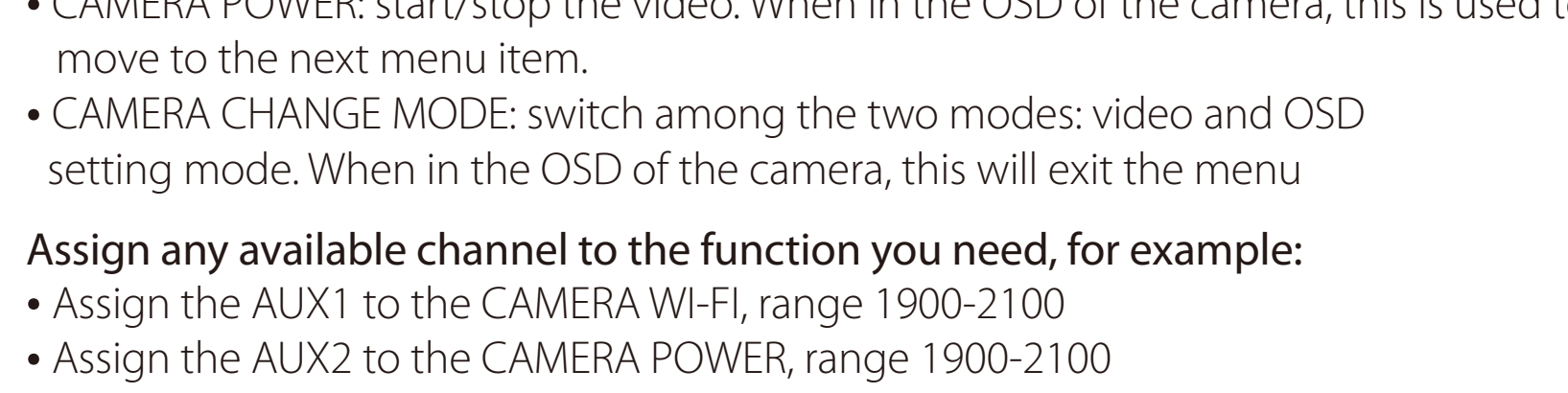
- Firmware: CleanFlight (≥2.1.0) / BetaFlight (≥3.2.0)
- Any available UART interface on the Flight Controller

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



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

For example, we connect the RunCam Split Mini to the UART 3 interface on the Flight Controller: connect the Flight Controller, then open the configurator, then open the configurator software 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.



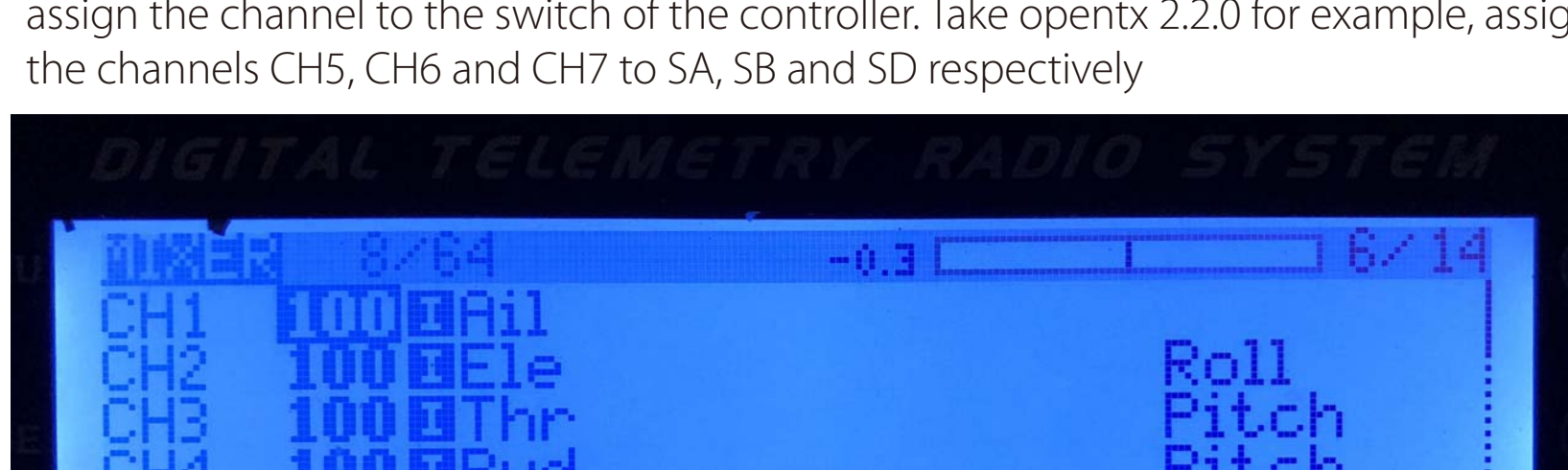
**3. Instructions of the functions of the camera and assigning transmitter channels to them**

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

- CAMERA WI-FI: when 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

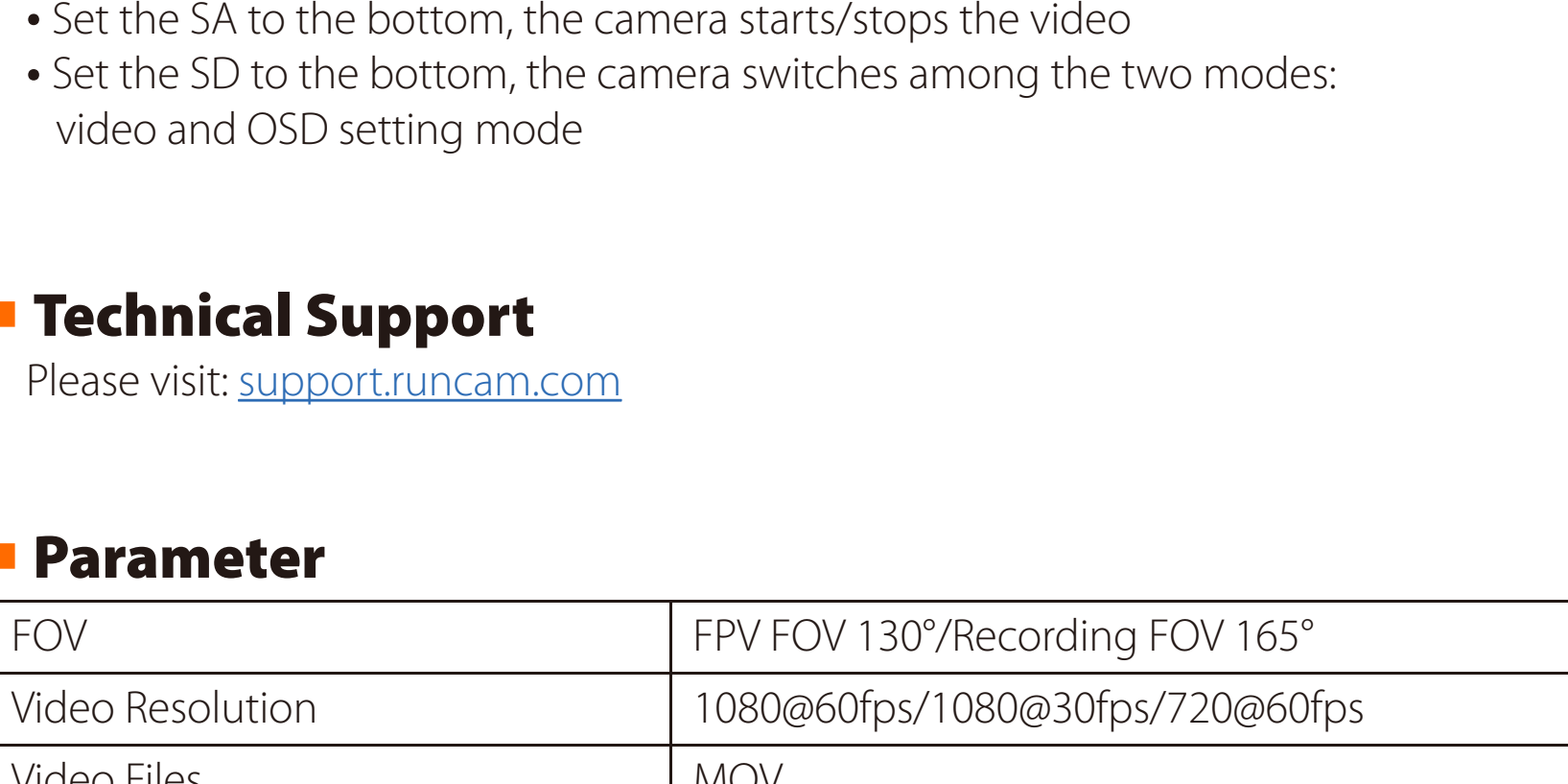
Assign any available channel to the function you need, for example:

- 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 the Flight Controller and the RunCam Split Mini

- 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: [support.runcam.com](http://support.runcam.com)

## Parameter

FOV	FPV FOV 130°/Recording FOV 165°
Video Resolution	1080@60fps/1080@30fps/720@60fps
Video Files	MOV
Image Resolution	2 MP
TV Output	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)
Hole Distance of Installation	20*20mm
Dimensions	PCB 27*29mm / Lens Module 19*19mm
Power Input	DC 5-17V / DC 5V(USB)
Working Current	650mA @5V/270mA @12V
Weight	15g