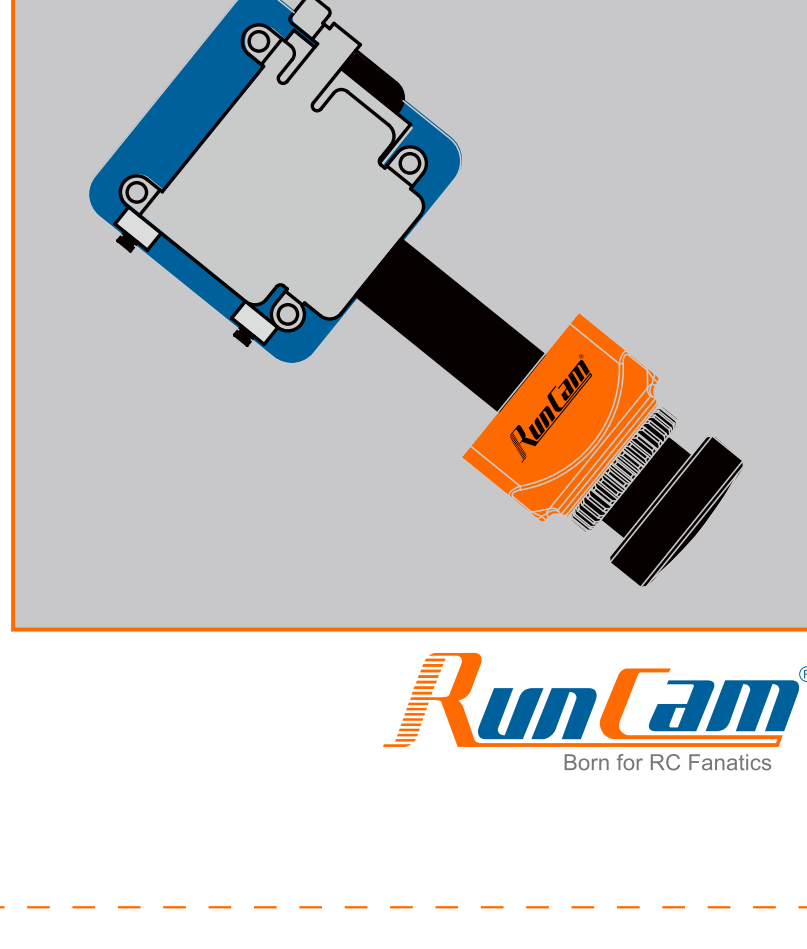
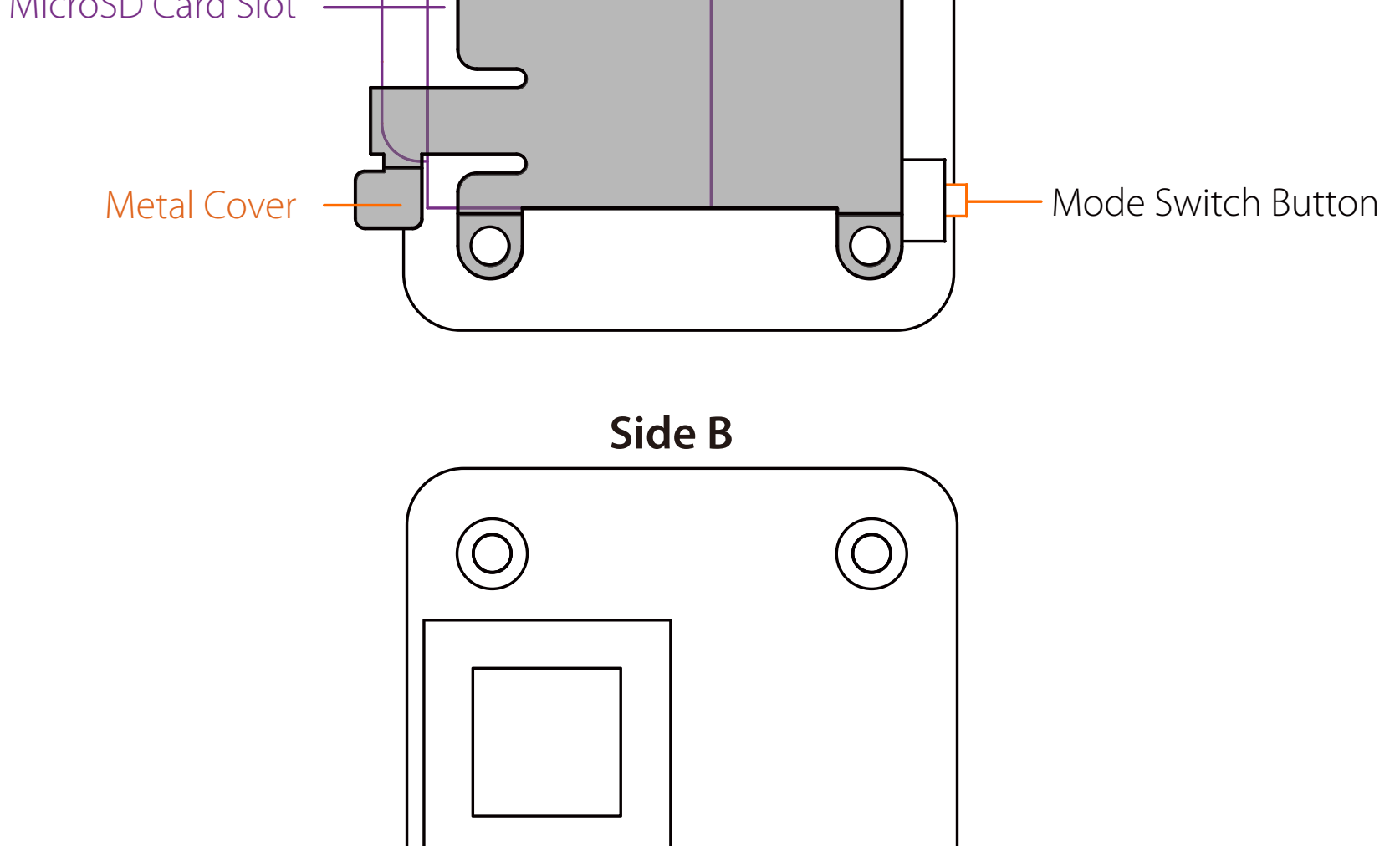


# RunCam Split Mini 2 User Manual



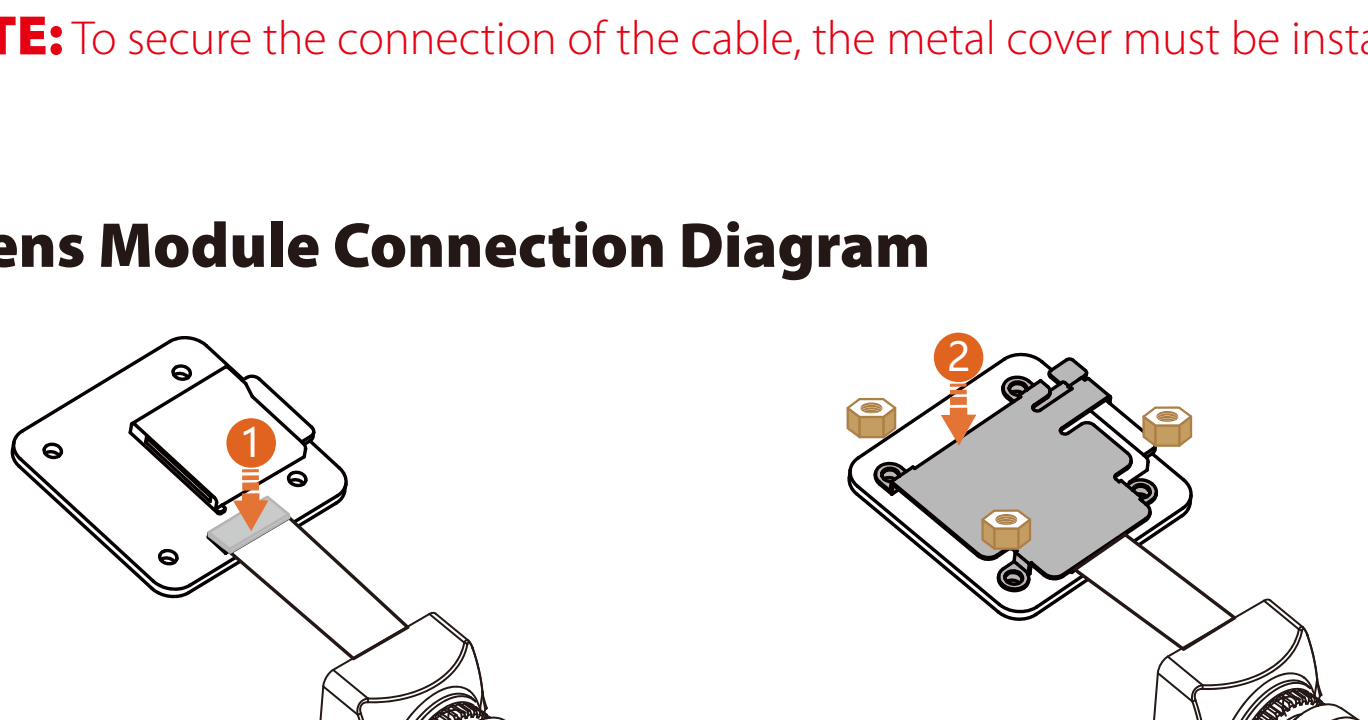
**RunCam**  
Born for RC Fanatics

## Instruction Diagram



**NOTE:** To secure the connection of the cable, the metal cover must be installed.

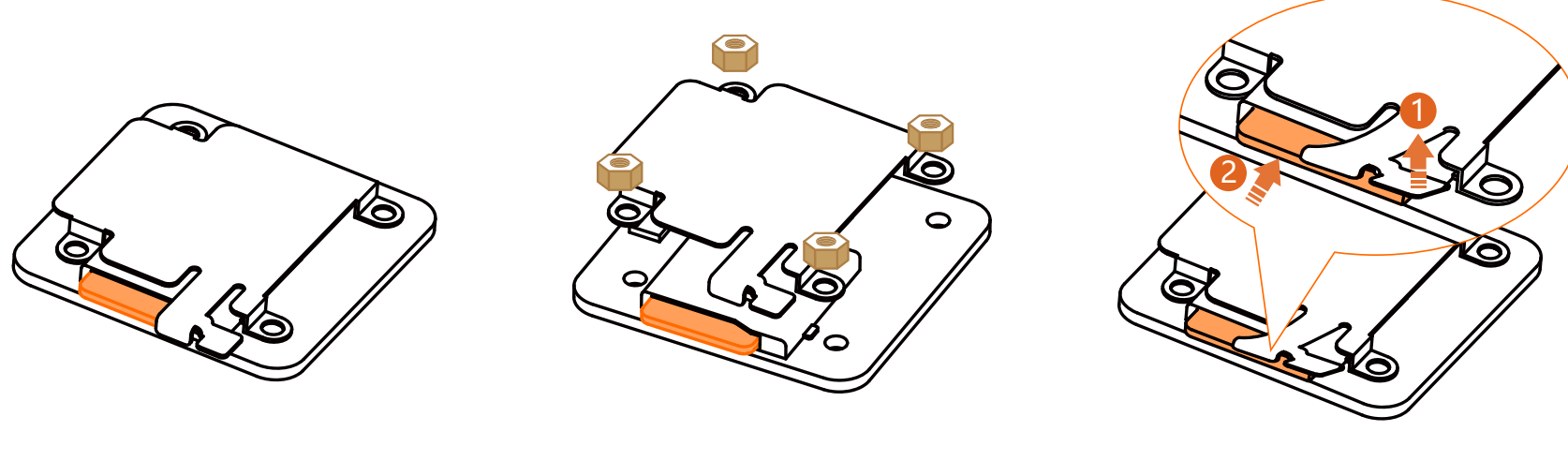
## Lens Module Connection Diagram



**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 (Class10/UHS-I/UHS-II)



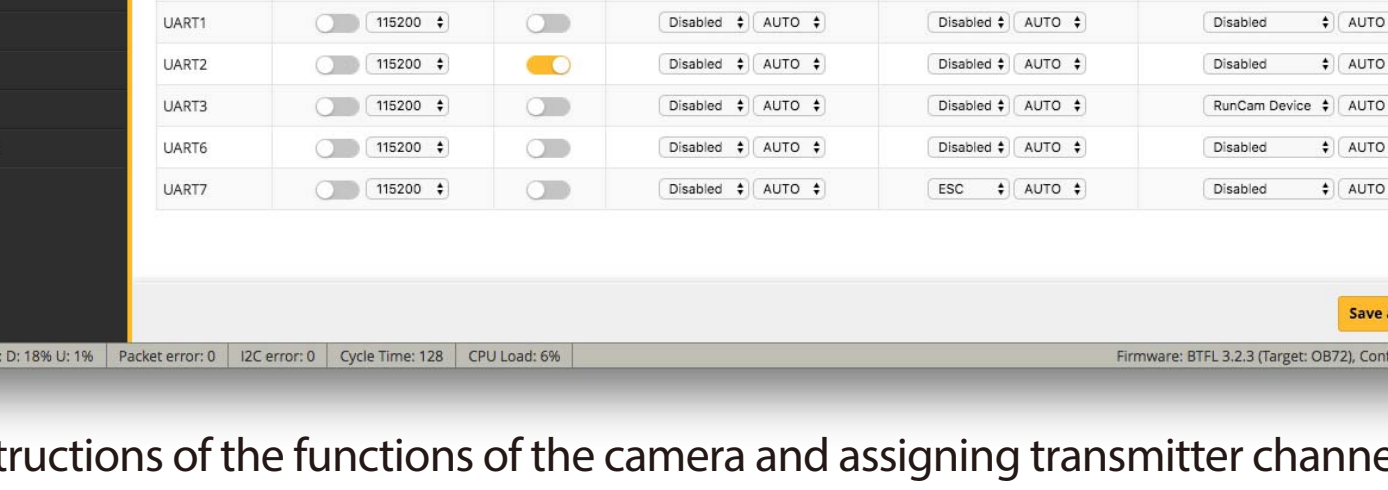
Please push the metal piece a little bit up with one hand like showed in above step 1 and then press the SD card (step 2) with another hand to let the card pop out.

## Basic Camera Operation

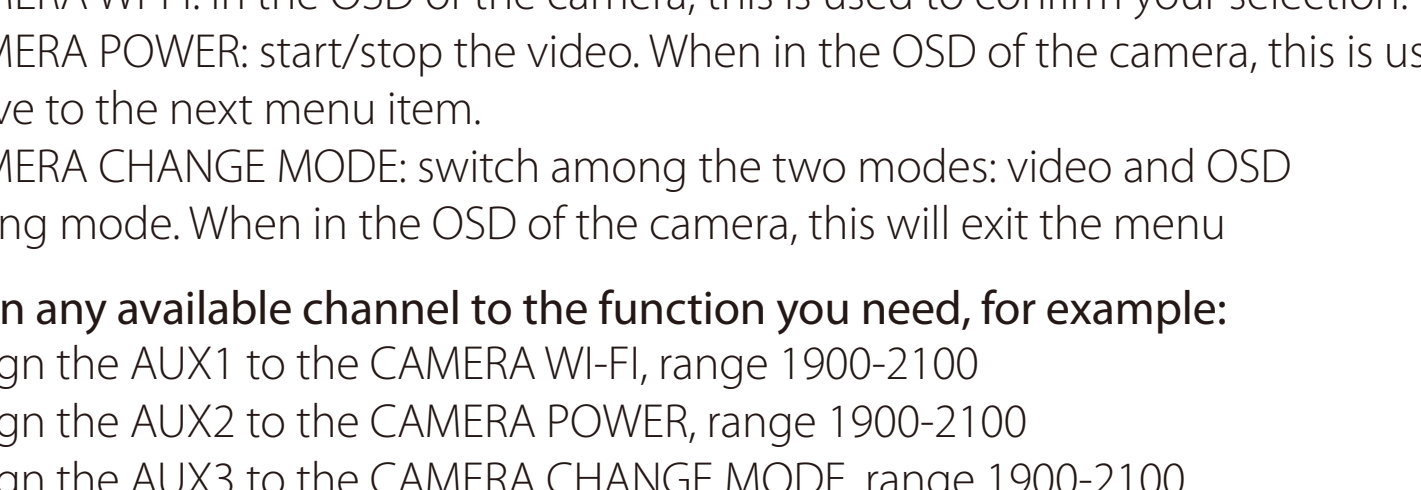
<b>Powering On/Off</b>	Long press the Power/Shutter button
<b>Standby Mode</b>	Camera Status Light: <b>Blue is On</b>
<b>Mode Switching</b>	In Standby Mode, long press the Mode Switch button to cycle through the three modes: Video/Photos/OSD settings.
<b>Video Mode</b>	Camera Status Light: <b>Blue blinks</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. • Short press the Mode Switch button to change setting. • 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 the Split mini PCB and the PDB with the silicone cable



**Method Two:** connect by the soldering pads



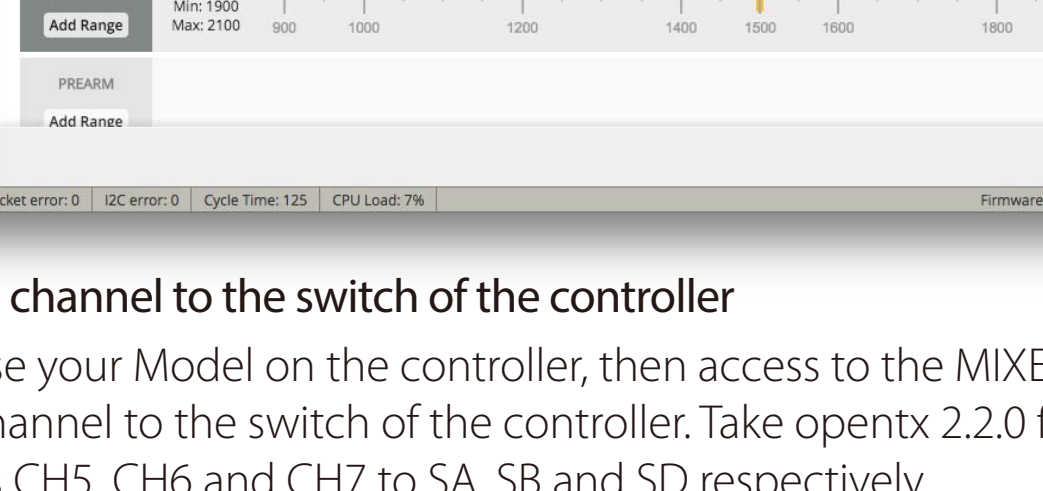
**Warning:** Current Input  $\geq 1A$  (Don't powered by VTx)

## Flight Controller Set

Preparation

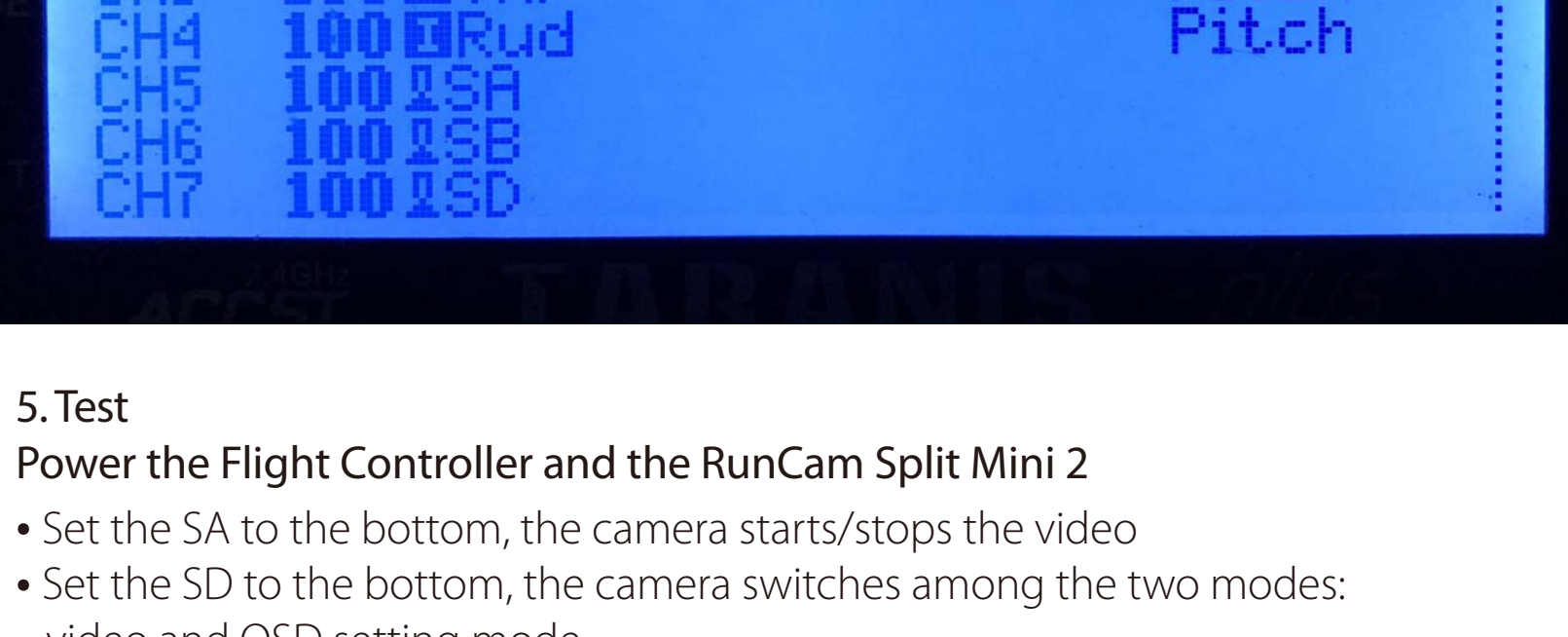
- Firmware: CleanFlight ( $\geq 2.1.0$ ) / BetaFlight ( $\geq 3.2.0$ )
- Any available UART interface on the Flight Controller

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, then open the configurator software of 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.



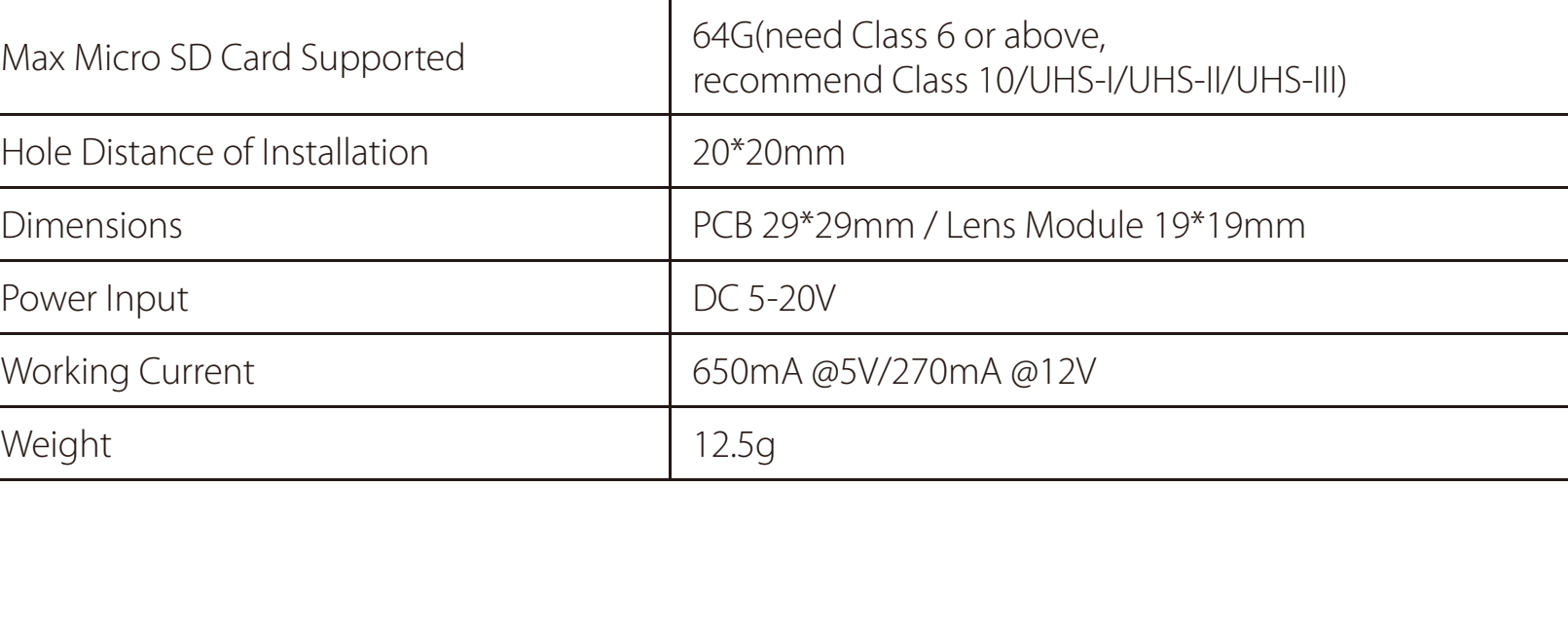
3. Instructions of the functions of the camera and assigning transmitter channels to them

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 optex 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 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)	Recording FOV 165°(FPV FOV: 165 ° @16.9, 130 ° @4:3)
Video Resolution	1080@60fps/1080@50fps/1080@30fps/720@60fps
Video File Format	MOV
Image Resolution	2 MP
TV Mode	NTSC (720*480)/PAL (720*576) Switchable
Interface	JST 1.0mm / 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