

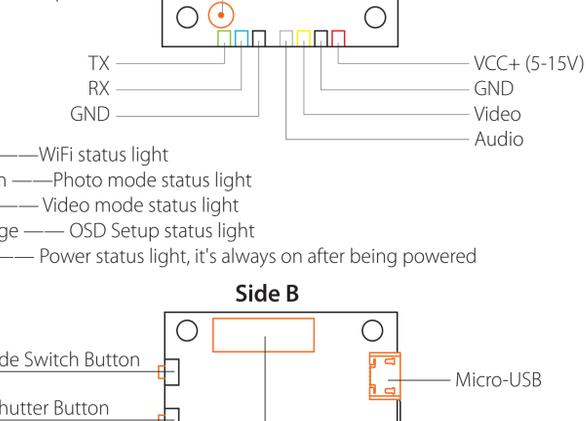
RunCam Split 2 User Manual



RunCam
Born for RC Fanatics

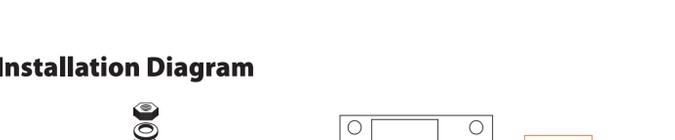
Instruction diagram

Side A

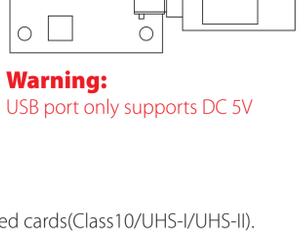


- LED 1: Blue — WiFi status light
- LED 2: Green — Photo mode status light
- LED 3: Blue — Video mode status light
- LED 4: Orange — OSD Setup status light
- LED 5: Red — Power status light, it's always on after being powered

Side B



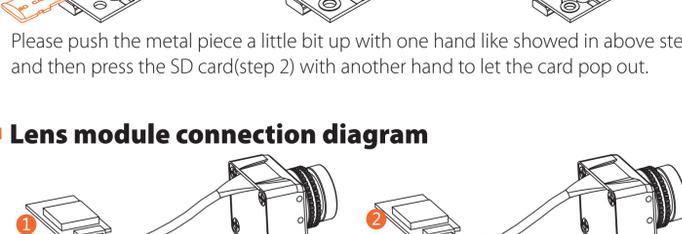
Installation Diagram



Warning: USB port only supports DC 5V

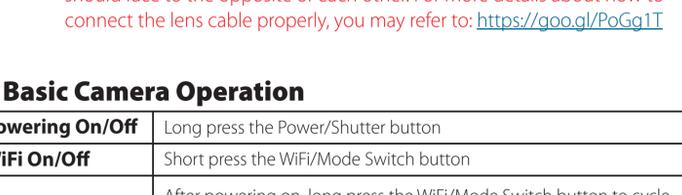
MicroSD Card

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.

Lens module connection diagram



Warning: Please push upward the black locking arm before you unplug the lens cable in case the connector is destroyed. And Golden fingers on ends of the lens cable should face to the opposite of each other. For more details about how to connect the lens cable properly, you may refer to: <https://goo.gl/PoGq1T>

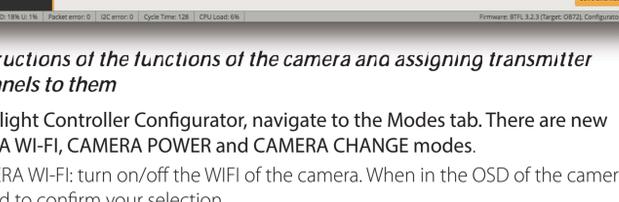
Basic Camera Operation

Powering On/Off	Long press the Power/Shutter button
WiFi On/Off	Short press the WiFi/Mode Switch button
Mode Switching	After powering on, long press the WiFi/Mode Switch button to cycle through the three modes: Video/Photos/OSD settings.
Video Mode	Camera Status Light: Blue (LED 3) • Press the Power/Shutter button to start/stop recording.
Photo Mode	Camera Status Light: Green (LED 2) • Press the Power/Shutter button to capture photos.
OSD Setup Mode	Camera Status Light: Orange (LED 4) • Press the Power/Shutter button to move to a setting. • Press the WiFi/Mode Switch button to select. • Long press the WiFi/Mode Switch button to exit the menu.
Forced Shutdown	Simultaneously press the Power/Shutter button and WiFi/Mode Switch button.
Reset	In standby mode, press the WiFi/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.

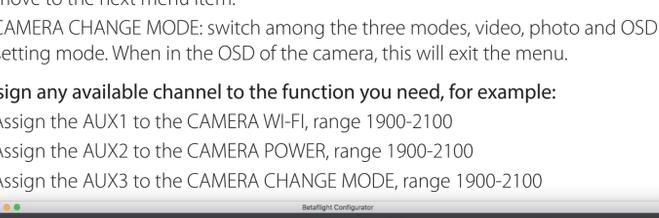
Note: Recording automatically after turning on by default, with the V1.0 firmware, under the video status, short press WIFI/MODE SWITCH button to pause/start the recording. With the V1.1 and later firmware, under the video status, short press WIFI/MODE SWITCH button to stop the recording and turn on the WIFI; Under the standby mode, the function of the WIFI/MODE SWITCH button doesn't change.

Transmitter connection diagram

Method One (Recommended): connect by the soldering pads



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



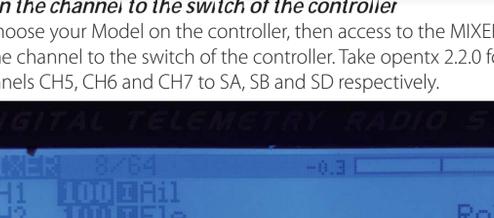
Warning: USB port only supports DC 5V

Flight Controller Set

Preparation

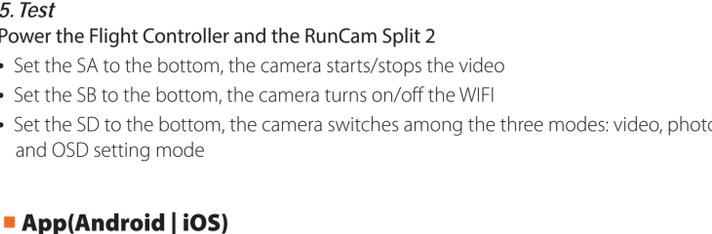
- Firmware: CleanFlight (≥2.1.0) / Betaflight (≥3.2.0)
- Any available UART interface on the Flight Controller

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



2. Make the Flight Controller recognize the RunCam Split 2

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



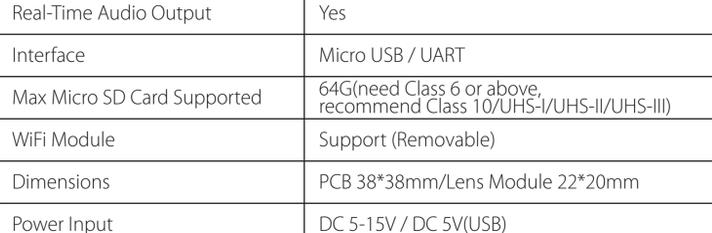
3. Instructions of the functions of the camera and assigning transmitter channels to them

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: turn on/off the WIFI of the camera. 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 three modes, video, photo 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 of the controller, then access to the MIXER interface and assign the channel to the switch of the controller. Take openxtx 2.2.0 for example, assign the channels CH5, CH6 and CH7 to SA, SB and SD respectively.



5. Test

Set the Flight Controller and the RunCam Split 2

- Power the SA to the bottom, the camera starts/stops the video
- Set the SB to the bottom, the camera turns on/off the WIFI
- Set the SD to the bottom, the camera switches among the three modes: video, photo and OSD setting mode

App(Android | iOS)

Search 'RunCam App' on Google Play/Apple Store, or download on our website: <https://www.runcam.com/download/runcamsplit2>

Default SSID: RCSplit_***** (* for letters or numbers)

Default WiFi password: 1234567890

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 Megapixels
TV Mode	NTSC (720*480)/PAL (720*576) Switchable
Real-Time Audio Output	Yes
Interface	Micro USB / UART
Max Micro SD Card Supported	64G(need Class 6 or above, recommend Class 10/UHS-I/UHS-II/UHS-III)
WiFi Module	Support (Removable)
Dimensions	PCB 38*38mm/Lens Module 22*20mm
Power Input	DC 5-15V / DC 5V(USB)
Working Current	650mA @5V/270mA @12V
Weight	21g/23g (Plus WiFi Module)