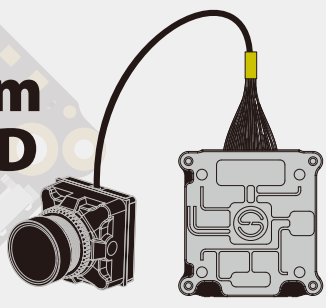
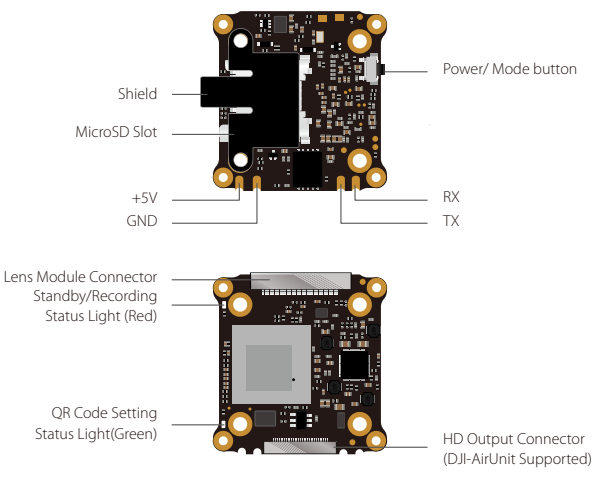
RunCam Split HD

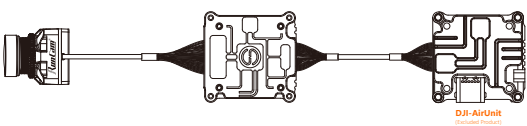
User Manual



Instruction Diagram

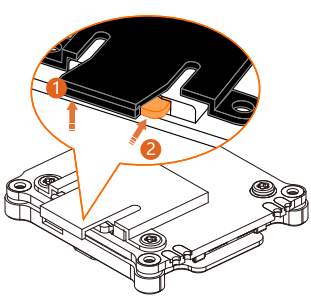


Lens Module Connection Diagram



Micro SD Card

Capacity up to 128GB; U3 recommended (2.7K50/1080P120 requires U3 or above; other solutions require U1 or above)

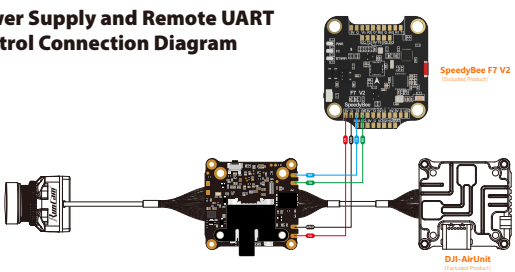


Please push the shield a little bit up with one hand like showed in above (step 1) and then press the SD card(step 2) with another hand to let the card pop out.

Basic Camera Operation

Powering On/Off	Short press the power button to turn on, long press 2S to turn off
Standby Mode	Status light-Red LED always on
Mode Switching	Double-click the power button in standby mode to switch between Lopp video and QR code Parameter Setting mode.
Video Mode	Status light-red LED flashes slowly at 1 second interval -Short press the power/shutter button to start/stop recording
QR Code Setting	Status light-green LED always on Use RUNCAM APP to enter RunCam Split HD entrance, Set up and generate a QR code. Scan with camera in QR code mode QR code, it will automatically switch to standby mode after setting successfully. Status light red LED
HD Recording Firmware Update	Status light-red and green LEDs flash at the same time
SD Card Issues	Status light-red LED flashes quickly at 0.5 second intervals
Lens Module Bad Connection	Status light-green LED flashes quickly at 0.5 second intervals

Power Supply and Remote UART Control Connection Diagram



Warning: Current Input ≥1A (Don't powered by VTx)

Flight Controller UART Control

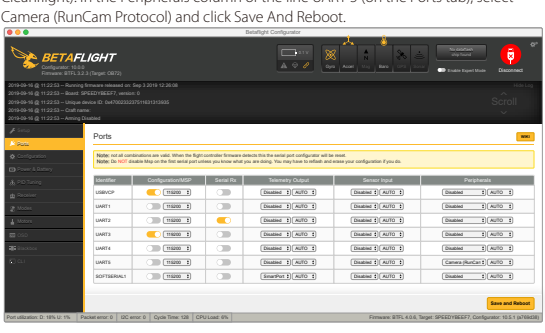
Preparation

- Firmware: BetaFlight Firmware (≥3.2.0),CleanFlight Firmware(≥2.1.0) , KISS Firmware (≥1.3-RC30) or INAV Firmware (≥1.7.3).
- Any available UART interface on the Flight Controller

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

2. Make the Flight Controller recognize the RunCam Split HD

For example, we connect the RunCam Split HD to the UART 5 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 Configurator for Betaflight, Cleanflight Configurator for Cleanflight). In the Peripherals column of the line UART 5 (on the Ports tab), select Camera (RunCam Protocol) and click Save And Reboot.



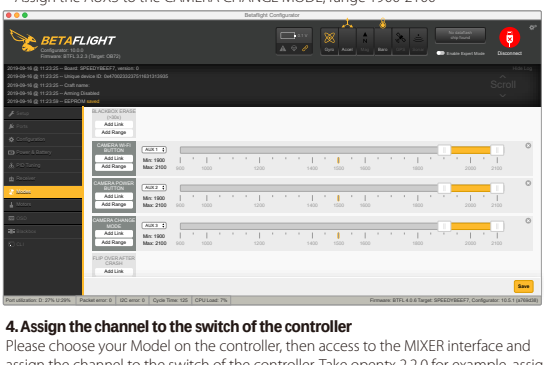
3. Instructions of the functions of the camera and assigning transmitter channels to them

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

- CAMERA 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 between the recording mode and the QR code setting mode.

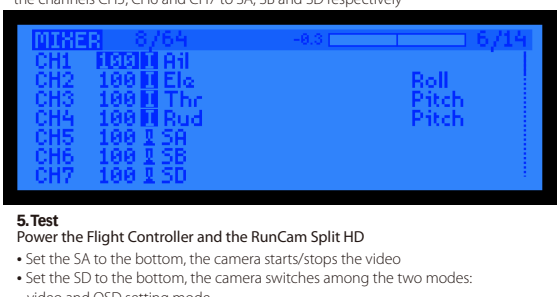
Assign any available channel to the function you need, for example:

- 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 opentx 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 HD

- 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

Model	RunCam Split HD
Field of View(FOV)	154°
Horizontal Perspective	124°
Video Resolution	2.7K@60fps/2.7K@60fps（4:3） 1440P@60fps/1080P@60fps
FPV Resolution	720P@60fps
Video File Format	MP4
Image Sensor	SONY（5MP）
Communication Interface	Supported
Max Micro SD Card Supported	Up to 128G. Samsung's U3 card is recommended (2.7K60/1080P120 requires U3 or above; other solutions require U1 or above) Please make sure that the file format of the SD card is FAT32, otherwise, it will easily cause errors.
Mounting Hole Distance	20*20mm / 25.5*25.5mm
PCB Size	29*30mm
Lens Module Size	19*19mm
Lens Specs	M12*0.5
Power Input	DC 5V
Working Current	450mA@5V(Max)
Weight	19.9g