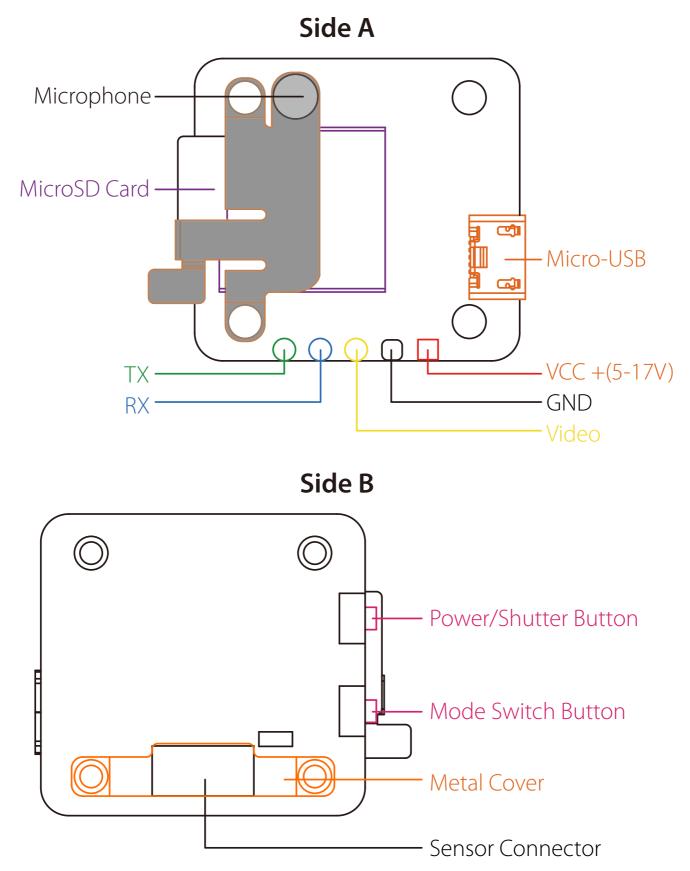
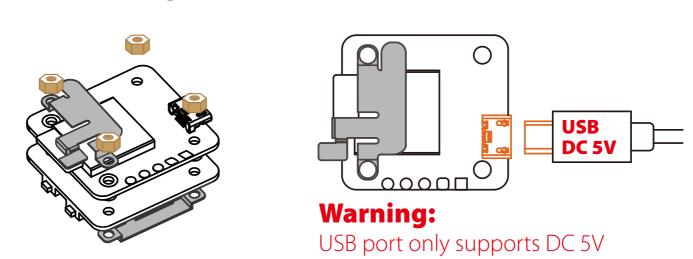




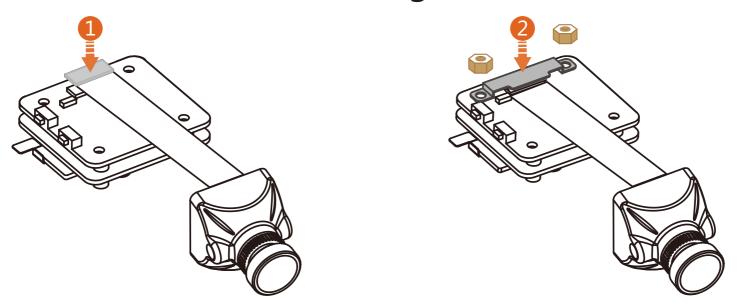
Instruction Diagram



Installation Diagram



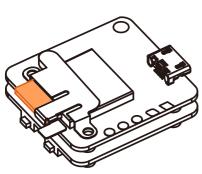
Lens Module Connection Diagram

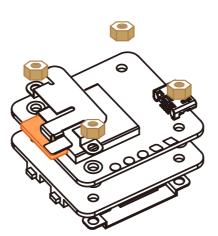


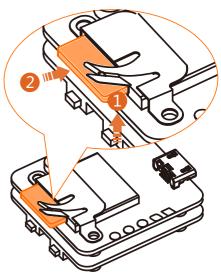
Warning: Please press the Metal Cover(showed above) to make sure the Sensor Connector fixed steadily.

Micro SD Card

Capacity up to 64GB; Please use high speed cards(Class10/UHS-I/UHS-II)







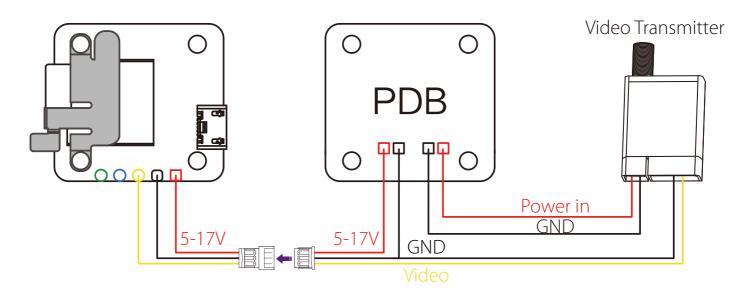
Please push the metal piece a little bit up with one hand like showed in above step 1 and then press the SD card(step 2) with another hand to let the card pop out.

Basic Camera Operation

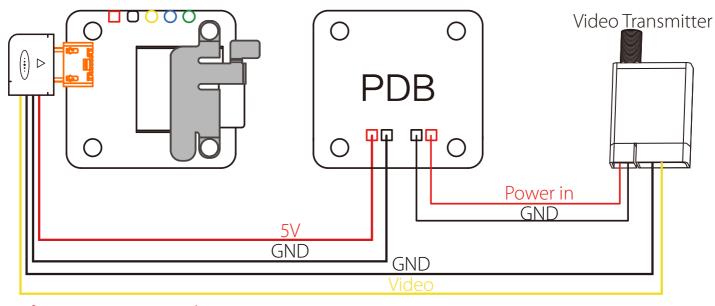
Powering On/Off	Long press the Power/Shutter button					
Standby Mode	Camera Status Light: Blue is On					
Mode Switching	In Standby Mode, long press the Mode Switch button to cycle through the three modes: Video/Photos/OSD settings.					
Video Mode	Camera Status Light: Blue blinks Press the Power/Shutter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



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



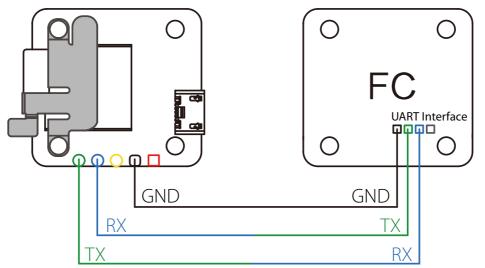
Warning: USB port only supports DC 5V

Flight Controller Set

Preparation

- Firmware: CleanFlight (\geq 2.1.0) / BetaFlight (\geq 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 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 UART3 (on the Ports tab), select RunCam Device and click Save And Reboot.

- 17-12-14 @ 14:44:12 Rur 17-12-14 @ 14:44:12 Boa 17-12-14 @ 14:44:13 Uni	ique device ID: 0x35001a33	: Dec 11 2017 07:57:37					Hide Lo Scroll
)17-12-14 @ 14:44:13 Cra 🖗 Setup							WIKI
🖆 Ports	Ports						WIKI
Configuration				etects this the serial port configuration will ou are doing. You may have to reflash and			
D Power & Battery	Note: Do NOT dis	addie war on the misc senal port of	iness you know what yo	ou are comp, rou may have to reliash and	nase your comignization in you do.		
	Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Periphera	ls
չ PID Tuning	Identifier USB VCP	Configuration/MSP	Serial Rx	Telemetry Output Disabled) AUTO	Sensor Input Disabled AUTO		Is AUTO 🛟
a PID Tuning a Receiver						Disabled \$	
PID Tuning Receiver	USB VCP	(115200 \$		Disabled \$ AUTO \$	Disabled \$ AUTO \$	Disabled \$	AUTO 🛊
PID Tuning Receiver Modes Motors	USB VCP UART1	115200 ¢		Disabled ¢ AUTO ¢ Disabled ¢ AUTO ¢	Disabled AUTO	Disabled \$	AUTO \$ AUTO \$ AUTO \$
PID Tuning Receiver Modes Motors OSD	USB VCP UART1 UART2	(115200 ¢) (115200 ¢) (115200 ¢)		Disabled ¢ AUTO ¢ Disabled ¢ AUTO ¢ Disabled ¢ AUTO ¢	Disabled AUTO Disabled AUTO	Disabled ¢ Disabled ¢ Disabled ¢ RunCam Device ¢	AUTO \$ AUTO \$ AUTO \$

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: 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

BETAFLIGHT

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

🗲 Setup	FPV ANGLE MIX																
Ports	Add Range																
Configuration																1	e
Power & Battery	CAMERA WI-FI BUTTON	(AUX 1 \$. r. x		-						а 1911 година	21 - 21		1 1		
h PID Tuning	Add Range	Min: 1900 Max: 2100	900	l 1000		1200		l 1400	1500	l 160	0		I 1800		2000	l 2100	
Receiver														_			¢
Modes	CAMERA POWER BUTTON	AUX 2 \$		1.1	1 1		с ю.			- E - F	т.	a	4 0	- <u>- 1</u>	× 1		
Motors	Add Range	Max: 2100	900	1 1000		1200		1400	1500	160	0		1800		2000	2100	
OSD	CAMERA CHANGE																e
Blackbox	MODE	AUX 3 \$	SP E	- E - E		- sp - i		- I -		е р	1.	a			× 1		
сц	Add Range	Max: 2100	900	1000		1200		1400	1500	160	0		1800		2000	2100	
	PREARM																
	Add Range																

Betaflight Configurato

0.1 V

2 2

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 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: <u>support.runcam.com</u>

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						