

RunCam 6 Action Camera



# RunCam 6 Action Camera User Manual

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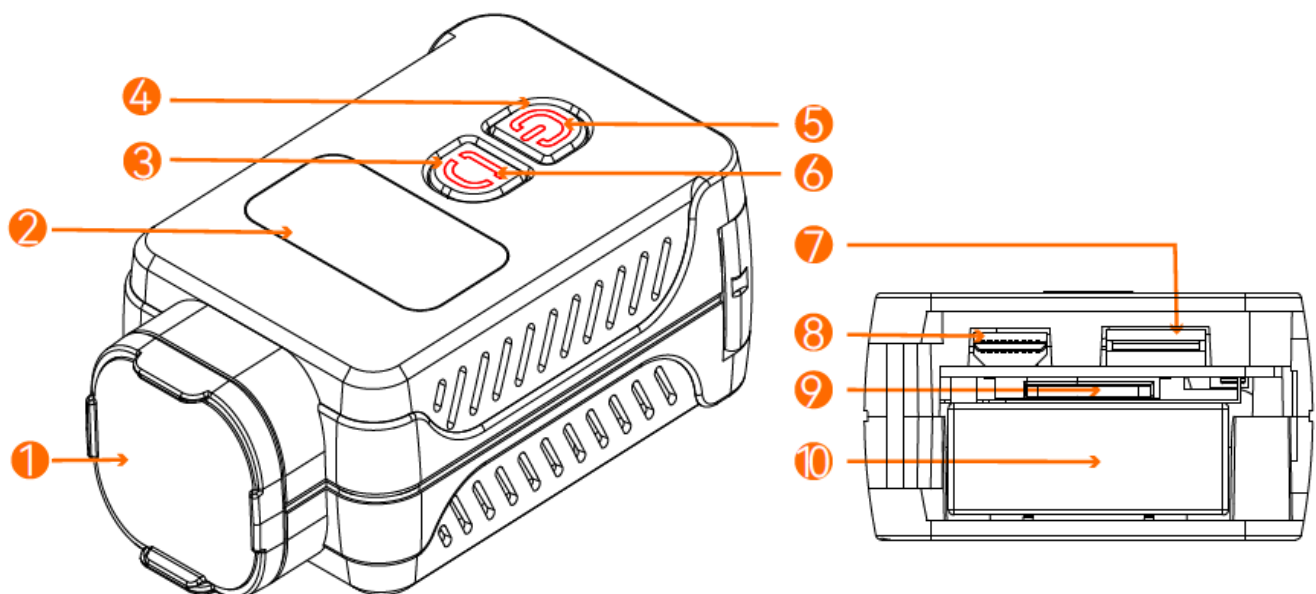
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**RunCam 6 Action Camera**



## Diagram





1. Lens protection hood
2. OLED Display
3. Wi-Fi/Menu button
4. Power/Shutter button
5. Power light indicator

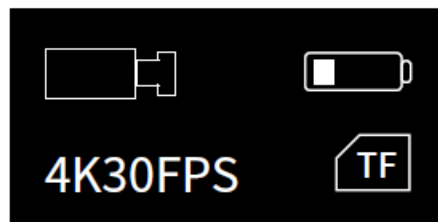
6. Wi-Fi/Menu light indicator
7. Type-C port
8. HDMI port
9. MicroSD card holder
10. Battery holder

- Power indicator light
- Red: Recording
- Green: charging
- Wi-Fi/Menu indicator light
- Blue: Wi-Fi/Firmware update
- Orange: menu setting



## Camera Basic Operations

### Power on/Power of

- Long press Power/Shutter button  buzzer beeps 3 times with power light on and camera icon on an OLED display, the camera is turned on.
- Long press the Power/Shutter button  buzzer beeps 5 times with power light and OLED display off, camera is turned off.





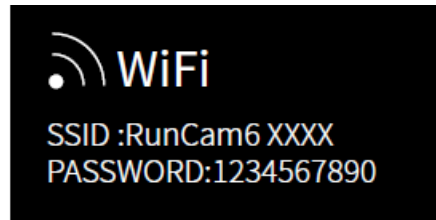
### Video mode

- After turning on the camera, short press the Power/ Shutter button  buzzer beeps once, power light blinks red slowly, the OLED display shows the recording time, and the camera starts recording.
- When the camera records, the short press Power/Shutter button  buzzer beeps twice, the power light turns solid red, the OLED display goes to ready mode, and the camera stops recording.





### Wi-Fi mode

- At standby mode, short press Wi-Fi/Menu button  buzzer beeps once, the Wi-Fi/Menu light blinks blue slowly, the OLED display shows the WiFi icon and the camera turns on Wi-Fi and waits for a connection.
- When the camera is connected via Wi-Fi, Wi-Fi/Menu light stays solid blue.
- At Wi-Fi mode, a short press of the Wi-Fi/Menu button  buzzer beeps once with the Wi-Fi/Menu blue light and WiFi icon off, the camera turns off Wi-Fi and stays on standby.



### Menu mode

- At standby mode, long press the Wi-Fi/Menu button  to enter menu setting mode, the buzzer beeps once, the Wi-Fi/Menu light turns solid orange, OLED display shows the menu setting.
- Long press the Wi-Fi/Menu button  to quit OLED setting mode, the buzzer beeps once with an orange Wi-Fi/Menu light off, OLED display and camera go back to standby mode.

Resolution	4k
FPS	30
Stabilization	off
Pre-record	off

### Low power alarm

- When the camera is low, the orange light flashes and the buzzer beeps every 3 seconds till the camera powers off.

### Forced shutdown

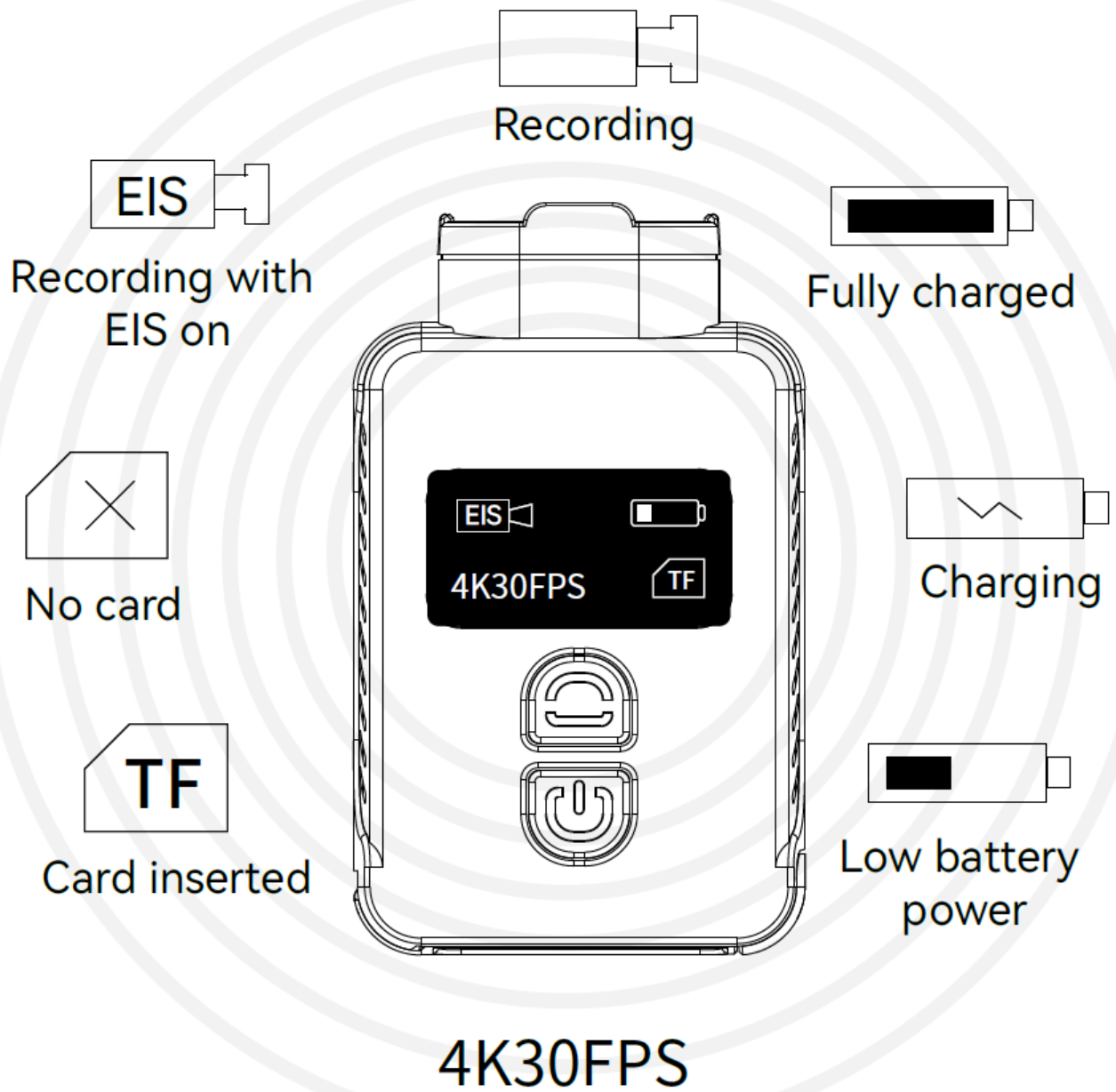
- When the camera behaves abnormally and both buttons don't give any responses, press both buttons simultaneously to shut down the camera.

### Abnormal conditions

- Card error(no card, card full or low-speed card, etc): Red light blinks quickly Failed Wi-Fi connection: Wi-Fi/Menu light doesn't blink or always stays solid blue
- Abnormal booting: The camera fails to detect the lens module, and blue light blinks quickly with the OLED display on, the camera shuts off in 5 seconds.

## OLED Display

### Display icons



### Menu

Resolution

4k

FPS

30

Stabilization

off

Pre-record

off

#### Wi-Fi



WiFi

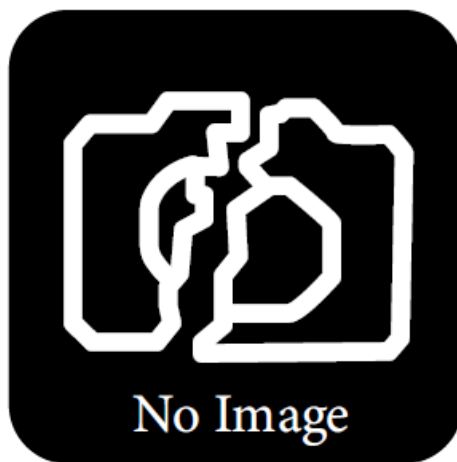
SSID :RunCam6 XXXX

PASSWORD:1234567890

#### Camera conditions



Firmware update



Abnormal booting



U-Disk mode



UVC mode

### Lens protection hood

- Rotate the lens protection hood counterclockwise to remove, and rotate it clockwise to install.



### Battery holder

- Push the battery door outward and flip, remove or install the battery.



## Micro SD Card

A MicroSD U3 card is recommended; the Capacity of the card is supported up to 512GB.

### Notice

Use carefully when handling memory cards. Avoid liquids, dust, and debris. As a precaution, please power off the camera before inserting or removing the card. Check manufacturer guidelines regarding use in acceptable temperature ranges.

If the camera cannot record, please format the used microSD card via the RunCam App or computer.

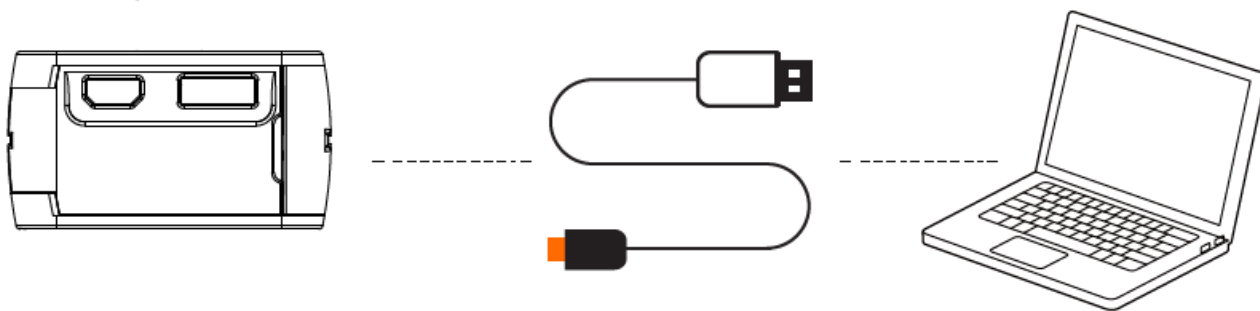
## Computer Connection

Connect the camera to a computer via a Type-C cable, the camera will be recognized as a U-Disk.

### Notice

If the camera cannot be recognized by the computer after connecting, please make sure that a microSD card is inserted well. If you cannot access the files inside the microSD card, please try another Type-C cable or port of the PC.





## Firmware update

For the camera's best performance, please use the latest firmware.

Camera firmware update status: The light alternates between a quick-blinking blue Wi-Fi/Menu light and a quick-blinking red Power light, and the camera shuts off automatically when the update is finished.

Firmware update method/download and RunCam App: <https://www.runcam.com/download/Runcam6>.

## GyroFlow Support

- Turn off stabilization

Resolution	4k
FPS	30
Stabilization	off
Pre-record	off







- Use the camera to record, and there will be Runcam6\_0001.mp4 and Runcam6\_0001.gcsv generated.
- Download GyroFlow from <https://gyroflow.xyz/>, install and run the software.



- After stabilizing the recording video via GyroFlow, export the video.
- Please refer to an electronic document for more details.

## Remote Control

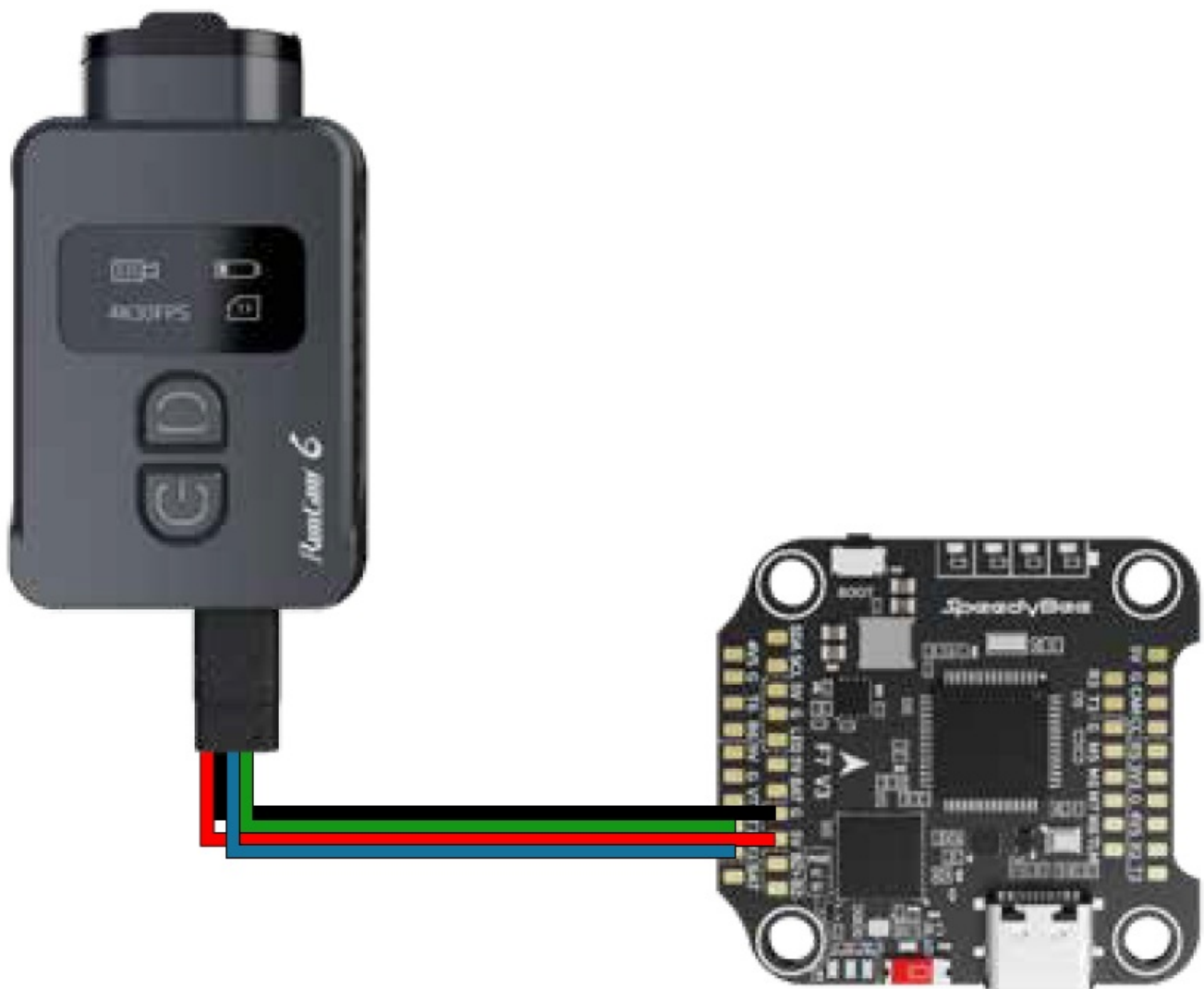
### Type-C Control cable instruction

-  **Power wire**  
It supports external power input of DC5-18V.
-  **Ground**  
Power ground wire / Remote control signal ground wire
-  **Video**  
It can be soldered to the VI pad of the Flight Controller or the Video pad of the Video Transmitter to transmit a video signal to VTX.
-  **PWM**  
It can be soldered to a spare M pad or LED pad of Flight Controller to achieve remote control for the camera.
-  **TX**  
It can be soldered to an R3 pad or other spare UART of Flight Controller to achieve remote control for the camera.
-  **RX**  
It can be soldered to a T3 pad or other spare UART of Flight Controller to achieve remote control for camera.



### Remote Control via UART (Recommended)

- Here we take Flight Controller Speedy Bee-F7 for an example Solder the wires of TypeC control cable to the pads on Speedy Bee F7 V3, with Power wire to 5V pad, GND wire to GND pad, Tx wire to R3 pad and Rx wire to T3 pad.



- Use BetaFlight to configure, setting the UART3 of SpeedyBee F7 V3 as a RunCam device.



## Configure at Modes

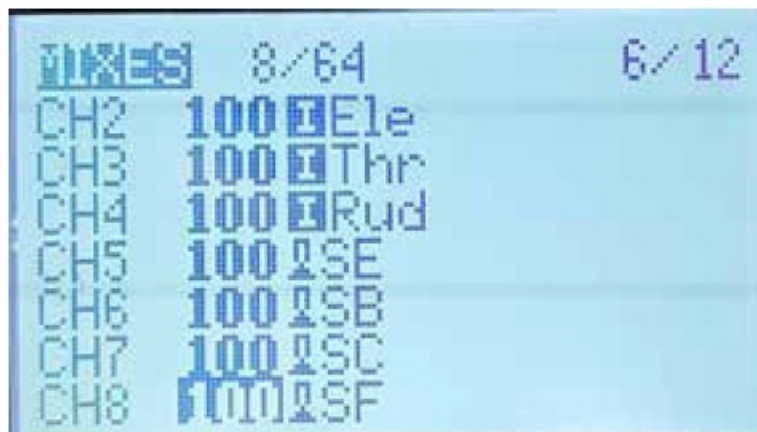
- Find the Modes tab at the BetaFlight, and there are three options for the camera. Configure each for the

functions of the camera (select AUX by yourself), and the range is 1900-2100. For example:



### Assign the channels 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 switches. Here we take Radiomaster TX12 as an example, assigning the channels CH5, CH6 and CH7 to SE, SB and SC positions respectively.



### Test

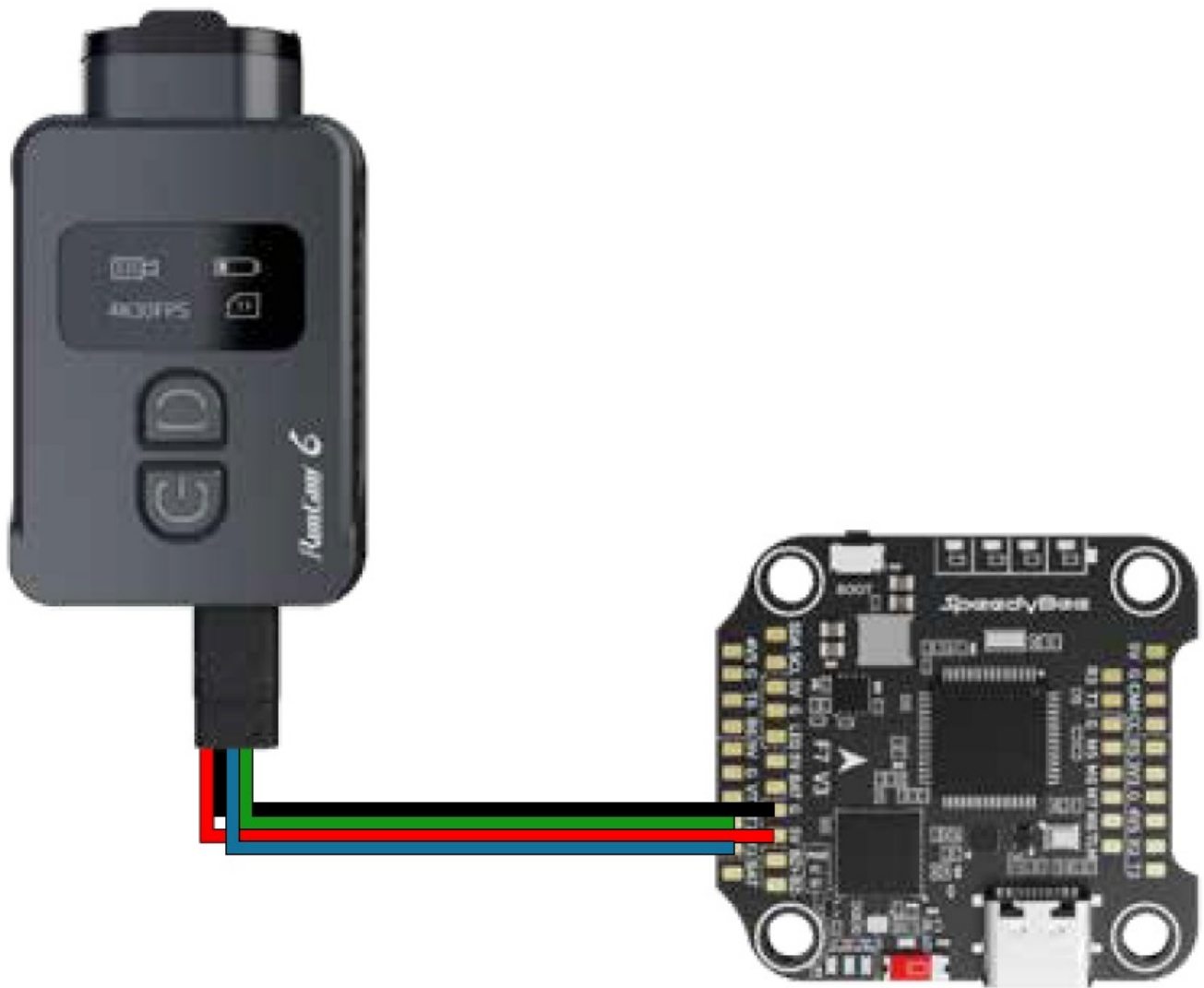
Power on RunCam 6 and the Flight Controller

- Set the SE to the bottom, the camera starts/stops recording
- Set the SB to the bottom, the camera turns on/off WiFi.
- Set the SC to the bottom, the camera switches among the two modes: video and OSD setting mode; At OSD mode, you can use the SA position to select, and use SB to enter a sub-menu or confirm the setting.

### PWM Remote Control

Here we take Flight Controller Speedy Bee-F7 as an example

- Solder the wires of TypeC control cable to the pads on Speedy Bee F7 V3, with Power wire to 5V pad, GND wire to GND pad, and PWM wire to M6 pad.

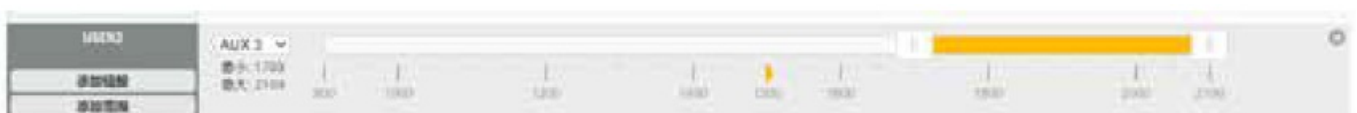


### Configure M6 at CLI mode

- Connect the flight controller to BetaFlight and enter the CLI interface
- Type in resource to proceed, and type the command as below

```
# resource motor 6 none
# resource pinio 2 B05
# set pinio_config = 129,129,1,1
# set pinio_box = 0,41,255,255
# save
```

### Assign the channels to PWM



### Assign the channels to a switch of the controller

- Please choose your Model on the controller, then access to the MIXER interface and assign the channel to a switch. Here takes Radiomaster TX12 as an example, assigning CH7 to the SF position.

## **Test**

- Set the SF to the bottom, toggle the switch once, the camera starts/stops recording; toggle the switch three times, camera will switch to photo mode.

## **RunCam App Connection**

1. After turning on the camera, short press the Wi-Fi/Menu button to turn on the Wi-Fi. The Wi-Fi light indicator will blink blue slowly, and the camera waits for a connection on a mobile device.
2. Go to the WLAN/Wi-Fi setting of a mobile phone and find Runcam6\_XXXXXXX device to connect, type in the password 1234567890
3. Turn to the RunCam App, and select RunCam 6 as the camera model to connect.  
Preview and configuration will be available after a successful connection.

## **RunCam App Download**

- RunCam App supports both Android and iOS systems.
- Please search and download the RunCam App at Google/ AppStore.


## **Product Support**

- Please visit <https://support.runcam.com/hc/en-us>.

## **Specifications**

Model	Runcam6	
Image Sensor	SONY IMX 377 1/2.3" 1200W	
Resolutions	4K@30FPS/2.7K@60FPS/2.7K@30FPS/ 1440P@60FPS/1080P@120FPS/ 1080P@60FPS/1080P@50FPS/1080P@30FPS	
EIS	6-DoF EIS	
Lens	FOV D:155° H:135° V:77°	
ISO	Auto	
Shutter	Auto	
Video File Format	MP4	
WiFi	2.4G	
APP	Android, IOS	
Interface	Type-C/HDMI	
Working Current	Max 500mA@ DC 5V	
Run Time	60Mins/4K30fps	110Mins/1080p60fps
	135Mins/1080p30fps	
Net weight	49g(with battery)/35g(without battery)	
Dimensions	66.5*40*20mm	

## Documents / Resources

 <p>User Manual Runcam6</p>	<p><a href="#">RunCam 6 Action Camera</a> [pdf] User Manual 6 Action Camera, Action Camera, Camera</p>
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## References

- 🔗 [Gyroflow v1.5.4 is out! | Gyroflow](#)
- 📄 [RunCam - download](#)
- 📖 [User Manual](#)

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