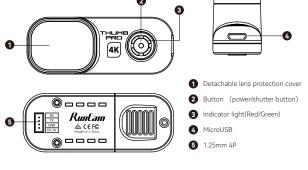


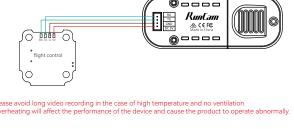
THUMB

Function indication

RunCam Thumb Pro



Power supply connection and flight controller connection



Camera basic operations

Automatically turn on when powered on, the red light is always on Cut the power or long press the button to power off

Power on/off

| Start/Stop recording | Click the shutter button to start recording, the red light flashes slowly / Click the shutter button again to stop recording, the red light is always on |
|--------------------------------|--|
| Mode switch | Double-click the shutter button quickly to switch between the recording mode (the red light is always on) and the parameter settings mode (the green light is always on) |
| Parameter settings mode | Scan the QR code in the Runcam APP to configure |
| Remote control mode | Thumb Pro Connect ThumbPro to flight controller for operations |
| SD card error | Red light keeps flashing fast |
| Attention: SD card error inclu | des card full, slow card speed, card damage and etc. |
| Micro SD Card | |

U3 card is recommended (4K@30FPS/2.7K@60FPS/1080P@120FPS requires U3 or above)

Supports up to 256G microSD card



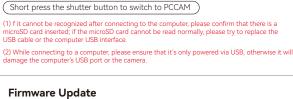




MicroSD Card

Connect the computer via Micro USB, it will be recognized as a U disk.

Computer Connection



To ensure optimal performance of the camera, please use the latest firmware version.

Check the link below to update for reference: https://www.runcam.com/download/ThumbPro Firmware upgrade status (Red and green lights flashing fast; when the upgrade is completed, the camera automatically shuts down.)

Android and IOS APP

Technical Support

Please visit: https://support.runcam.com

Search "RunCam" on Google play and Apple Store, or download on our website http://www.runcam.com/download

Medium

50Mbps

50Mbps

30Mbps

50Mbps

30Mbps

Codec

H.264

Low

40Mbps

40Mbps

20Mbps

40Mbps

22Mbps

Video Bitrate and Codec

Resolution

4K@30fps

2.7K@60fps

1080P@60fps

Video Quality

High

60Mbps

60Mbps

45Mbps

1440P@60fps 40Mbps 1080P@120fps 60Mbps

| 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 Thumb PRO with the UART interface of the Flight Controller |
| 2. Make the Flight Controller recognize the Runcam Thumb PRO |
| For example, we connect the Runcam Thumb PRO 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. |
| ■ ● Butalish Conference |

BETAFLIGHT

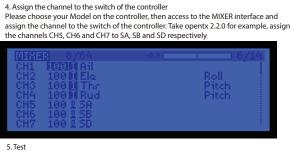
setting mode.

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

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

- 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
- **BETAFLIGHT**
- AUX 2 1 Min: 1900 Max: 2100 4. Assign the channel to the switch of the controller



- 5. Test
 Power the Flight Controller and the Runcam Thumb PRO 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
- **Specifications**

4K@30fps\2.7K@60fps\1440P@60fps\ 1080P@120fps\1080P@60fps Resolution

Mode

| Sensor | IMX577(12MP) |
|---|-----------------------------------|
| F.O.V | OLD VERSION 145°,NEW VERSION 155° |
| Video Format | MP4 |
| Gyro | Bulit-in |
| Communication Interface | Micro USB |
| Micro SD Card Capacity | 256G Max |
| USB Power Input/ Terminal Power Supply | DC 5.0V |
| Remote Control | Uart |
| Power Consumption | 500mA@5V Max |
| Dimension | 54mm*25.5mm*21mm |
| Net Weight | 16g |

Runcam Thumb Pro