

## RunCam RunCam 2

# RunCam 2 FPV Camera 4K Ultra HD Mini WiFi Sports Action Video Camera Instruction Manual

Model: RunCam 2

## 1. PRODUCT OVERVIEW

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The RunCam 2 is a compact and lightweight FPV (First Person View) camera designed for various RC hobbies, including fixed-wing aircraft, FPV drones, RC planes, and RC cars. It offers high-definition video recording capabilities with built-in Wi-Fi for live preview and settings adjustment via a mobile application.



**Image 1.1:** Front and side view of the RunCam 2 FPV Camera. The camera features a compact, rectangular black body with a prominent lens on the front. Control buttons are visible on the top surface.

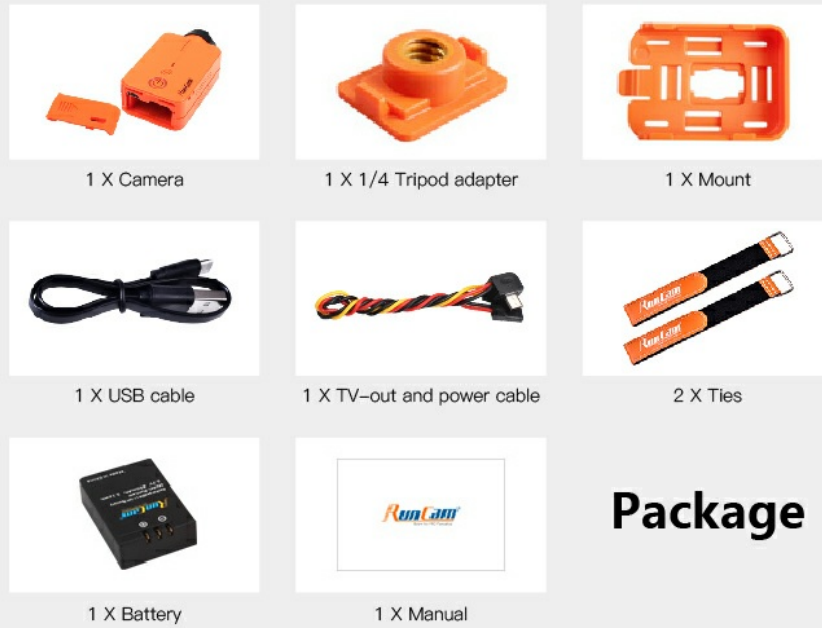


**Image 1.2:** The RunCam 2 FPV Camera shown alongside its mounting frame and a tripod adapter. The camera is detached from the frame, highlighting its small size and the accessories provided for versatile attachment.

## 2. WHAT'S IN THE BOX

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Your RunCam 2 package includes the following items:



**Image 2.1:** A visual representation of the RunCam 2 package contents, including the camera, various cables, mounting accessories, and the user manual.

- RunCam 2 FPV Camera
- USB Cable
- User Manual
- 1/4" Tripod Adapter
- Mounting Frame
- TV-out and Power Cable
- 2 x Velcro Ties
- Battery (850mAh)

## 3. SETUP

### 3.1 Battery and MicroSD Card Installation

1. Open the rear cover of the camera.
2. Insert the provided 850mAh battery into the battery compartment. The battery is removable, allowing for easy replacement with spare batteries for extended recording time.
3. Insert a MicroSD card (Class 10 or preferably V30 for optimal 4K recording) into the designated slot. Ensure the card is inserted correctly until it clicks into place.
4. Close the rear cover securely.

### 3.2 Mounting the Camera

The RunCam 2 features a compact design with a small frontal area, making it suitable for various mounting

options without significantly impacting aerodynamics.

- Use the provided mounting frame to attach the camera to your RC model. The frame is designed for secure attachment and minimal drag.
- Utilize the 1/4" tripod adapter for mounting on standard tripods or other compatible accessories for ground-based recording.
- The camera is lightweight (approximately 50g), allowing it to be mounted on sub-250g quads without severely affecting flight performance.

### 3.3 Connecting to the RunCam App (Wi-Fi)

The RunCam 2 features built-in Wi-Fi for seamless connection to the RunCam mobile application, available for both iOS and Android devices. This allows for live preview, video download, and settings adjustment.

1. Download and install the RunCam App on your smartphone.
2. Power on the RunCam 2 camera by pressing the power button.
3. Press the Wi-Fi button on the camera to activate its Wi-Fi hotspot. The Wi-Fi indicator light will start flashing.
4. On your smartphone, go to Wi-Fi settings and connect to the RunCam 2's Wi-Fi network (e.g., "RC2-4K\_XXXXXX").
5. Open the RunCam App. It should automatically detect and connect to your camera.
6. Once connected, you will see a live feed from the camera and can access various settings.

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**Video 3.1:** This video demonstrates the process of connecting the RunCam 2 FPV Camera to a smartphone via Wi-Fi and navigating through the app's settings for resolution and bitrate adjustments. It highlights the live preview feature and the available recording options.

## 4. OPERATING THE CAMERA

### 4.1 Power On/Off and Recording

- **Power On:** Press and hold the power button until the indicator light illuminates.
- **Recording:** Once powered on, the camera can be set to automatically start recording, or you can manually initiate recording via the app or a dedicated button (if available).
- **Power Off:** Press and hold the power button until the indicator light turns off.

### 4.2 Video Resolution and Frame Rate Settings

The RunCam 2 offers various video recording options to suit different needs:

- **4K (3840x2160):** Records at 30 frames per second (FPS) with a bitrate of 60Mbps.
- **2.7K (2704x1524):** Records at 60 FPS with a bitrate of 60Mbps.
- **1080p (1920x1080):** Records at 120 FPS (60Mbps) or 60 FPS (50Mbps).

These settings can be adjusted through the RunCam App. For fast-moving action or cinematic slow-motion, higher frame rates (e.g., 1080p@120fps) are recommended. For maximum detail, 4K@30fps is available.

## 4.3 FPV Video Output

The included TV-out and power cable allows the RunCam 2 to function as an FPV camera, providing a live video feed to your FPV goggles or monitor. It supports a wide voltage range (DC 5V-17V), enabling direct power from up to 4S LiPo batteries without the need for a separate BEC (Battery Eliminator Circuit).

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**Video 4.1:** This video provides a detailed overview of the RunCam 2 4K FPV HD Camera, showcasing its features, accessories, and demonstrating its setup and app connectivity. It also includes sample footage to illustrate video quality in various lighting conditions.

## 5. MAINTENANCE

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### 5.1 Battery Care

- Always use the provided USB cable for charging the battery.
- Avoid overcharging or completely draining the battery to prolong its lifespan.
- Store the camera and batteries in a cool, dry place when not in use.

### 5.2 MicroSD Card Management

- Regularly format the MicroSD card using the camera's settings or a computer to ensure optimal performance and prevent data corruption.
- Back up your recorded footage frequently to avoid loss of data.

### 5.3 Cleaning

- Use a soft, dry cloth to clean the camera body.
- For the lens, use a specialized lens cleaning cloth and solution to avoid scratches.

## 6. TROUBLESHOOTING

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- **Camera not powering on:** Ensure the battery is fully charged and correctly inserted.
- **MicroSD card not detected:** Reinsert the MicroSD card. Try formatting the card on a computer or using a different card. Ensure it is a Class 10 or V30 card.
- **Wi-Fi connectivity issues:** Ensure the camera's Wi-Fi is activated. Try restarting both the camera and your smartphone's Wi-Fi. Some users report finicky connections, especially with certain phone models.
- **Poor video quality in low light/overcast conditions:** The camera's dynamic range may be limited in challenging lighting. Consider flying in brighter conditions for optimal results.
- **Short battery life:** Ensure the battery is fully charged before use. Consider carrying spare batteries for extended recording sessions.
- **Physical damage after minor impact:** While durable, the camera is not indestructible. Ensure secure

mounting and consider protective measures for high-impact environments.

## 7. SPECIFICATIONS

Feature	Specification
Brand	RunCam
Model Number	RunCam 2
Photo Sensor Technology	CMOS
Video Capture Resolution	1080p, 720p (4K available in specific models)
Maximum Focal Length	155 Millimeters
Maximum Aperture	2 f
Flash Memory Type	Micro SD
Video Capture Format	MP4
Supported Audio Format	AAC, MP3, PCM
Connectivity Technology	USB, Wi-Fi
Color	Black
Features	Lightweight, Time Lapse
Water Resistance Level	Not Water Resistant
Item Weight	49 Grams
Number of Batteries	1 Lithium Ion batteries required.
Lens Type	Wide Angle
Focus Type	Fixed Focus
Image Capture Speed	120 fps (at 720p)
Shooting Modes	Automatic
Image Aspect Ratio	16:9
Supported Image Format	JPEG, PNG
White Balance Settings	Auto
File Format	MP4 or MOV
Exposure Control Type	Automatic
Compatible Devices	RunCam APP

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official RunCam website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

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