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› GoPro Mission 1 PRO ILS Compact Cinema Camera User Manual

## GoPro Mission 1 PRO ILS

# GoPro Mission 1 PRO ILS Compact Cinema Camera User Manual

Model: Mission 1 PRO ILS (CHDHW-010-RW)

## 1. INTRODUCTION

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The GoPro Mission 1 PRO ILS is a compact cinema camera body designed for use with Micro Four Thirds (MFT) lenses. It offers advanced features for content creators and professional filmmakers, including 8K60 video, a 1-inch sensor for exceptional low-light performance, 50MP photos, and HyperSmooth stabilization.

This manual provides essential information for setting up, operating, and maintaining your Mission 1 PRO ILS camera to ensure optimal performance and longevity.



Image 1.1: The GoPro Mission 1 PRO ILS camera body, highlighting its compact design and Micro Four Thirds lens compatibility.

## 2. WHAT'S INCLUDED

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Your GoPro Mission 1 PRO ILS package includes the following items:

- MISSION 1 PRO ILS Camera (Body Only)
- Enduro 2 Battery
- Body Cap
- USB-C Cable

## 3. SETUP

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### 3.1. Battery Installation

1. Locate the battery compartment on the camera body.
2. Insert the provided Enduro 2 Battery, ensuring the contacts align correctly.
3. Close the battery compartment securely.

*Note: The Enduro 2 battery provides up to 5 hours of runtime and improved thermal performance.*

### 3.2. Lens Attachment

The Mission 1 PRO ILS is compatible with Micro Four Thirds (MFT) lenses.

1. Remove the body cap from the camera and the rear lens cap from your MFT lens.
2. Align the mounting index marks on the lens and the camera body.
3. Gently insert the lens into the camera mount and rotate it clockwise until it clicks into place.



### 3.3. Memory Card Insertion

The camera uses Micro SD cards for storage.

1. Locate the Micro SD card slot on the camera body.
2. Insert a compatible Micro SD card with the label facing the correct direction until it clicks into place.
3. To remove, push the card gently until it springs out.

### 3.4. Initial Power On

Press and hold the Power/Mode button (located on the side) to turn on the camera. Follow any on-screen prompts for initial setup, such as language and date/time settings.



Image 3.2: Rear view of the GoPro Mission 1 PRO ILS, displaying the screen and the Power/Mode button.

### 3.5. Connecting to the GoPro MISSION Monitor App

Download the GoPro MISSION Monitor App on your iPhone or iPad for professional-grade monitoring and control.

1. Ensure Bluetooth and Wi-Fi are enabled on your mobile device.
2. Open the GoPro MISSION Monitor App and follow the instructions to pair with your Mission 1 PRO ILS camera.

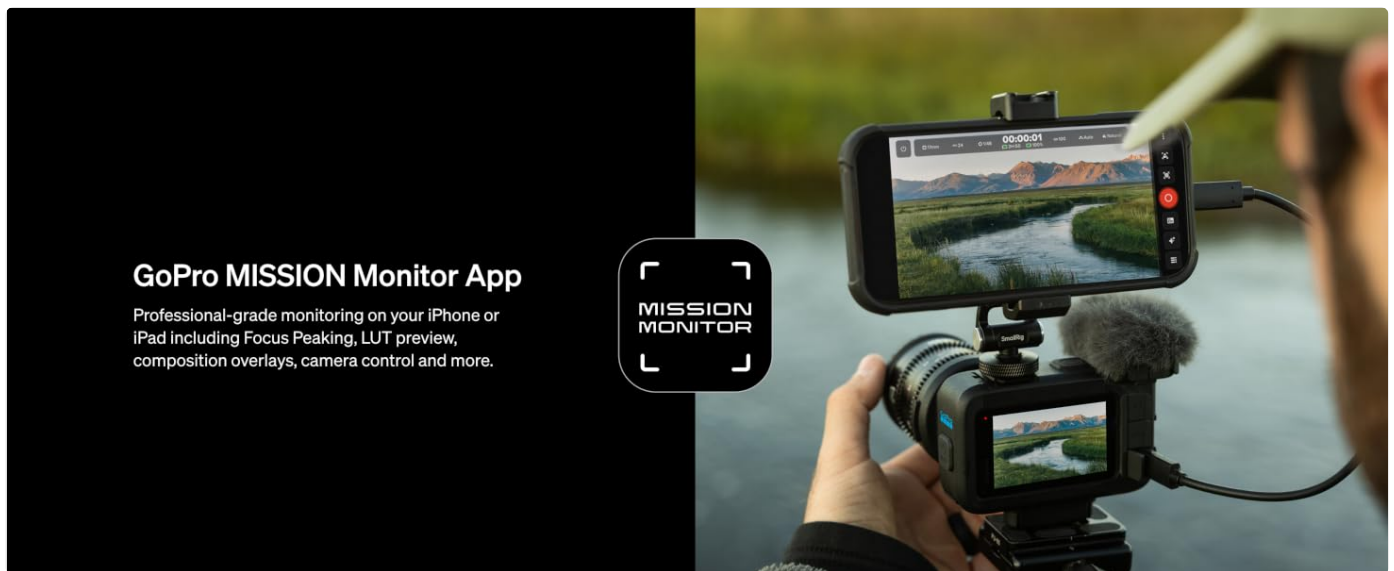


Image 3.3: The GoPro MISSION Monitor App in use on a smartphone, providing real-time monitoring and camera control.

## 4. OPERATING THE CAMERA

### 4.1. Basic Controls

- **Power/Mode Button:** Press and hold to power on/off. Short press to cycle through shooting modes.
- **Shutter Button:** Press to start/stop recording video or take a photo.
- **Touchscreen:** Navigate menus, adjust settings, and review footage.

### 4.2. Video Recording

The Mission 1 PRO ILS supports various video resolutions and frame rates:

- **8K60 Video:** Capture stunning detail with 300% more resolution than 4K.
- **4K240 Video:** Achieve 8x slow-motion effects.
- **8K Open Gate:** Utilizes the full image sensor for maximum post-production flexibility, especially with anamorphic lenses.
- **Color Profiles:** Supports HLG HDR, 10-bit, and Log encoding with GP-Log2 for advanced color grading.
- **Bit Rate:** Up to 240Mbps for higher-fidelity footage.

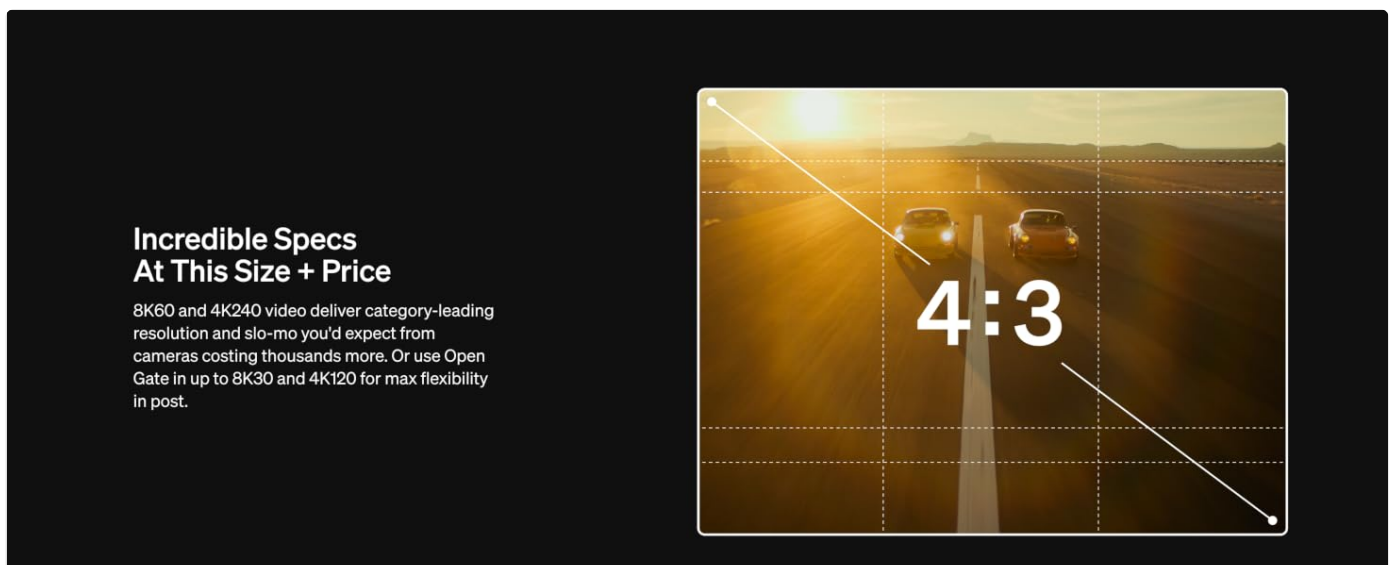


Image 4.1: Visual representation of 8K Open Gate capture, providing maximum flexibility for various aspect ratios in post-production.

### 4.3. Photo Capture

The camera can capture high-resolution still images:

- **50MP Photos:** Capture detailed images in Single, Interval, or Burst modes.
- **Low-Light Performance:** Utilize Quad Bayer 12MP RAW with dual-gain for enhanced low-light photography.

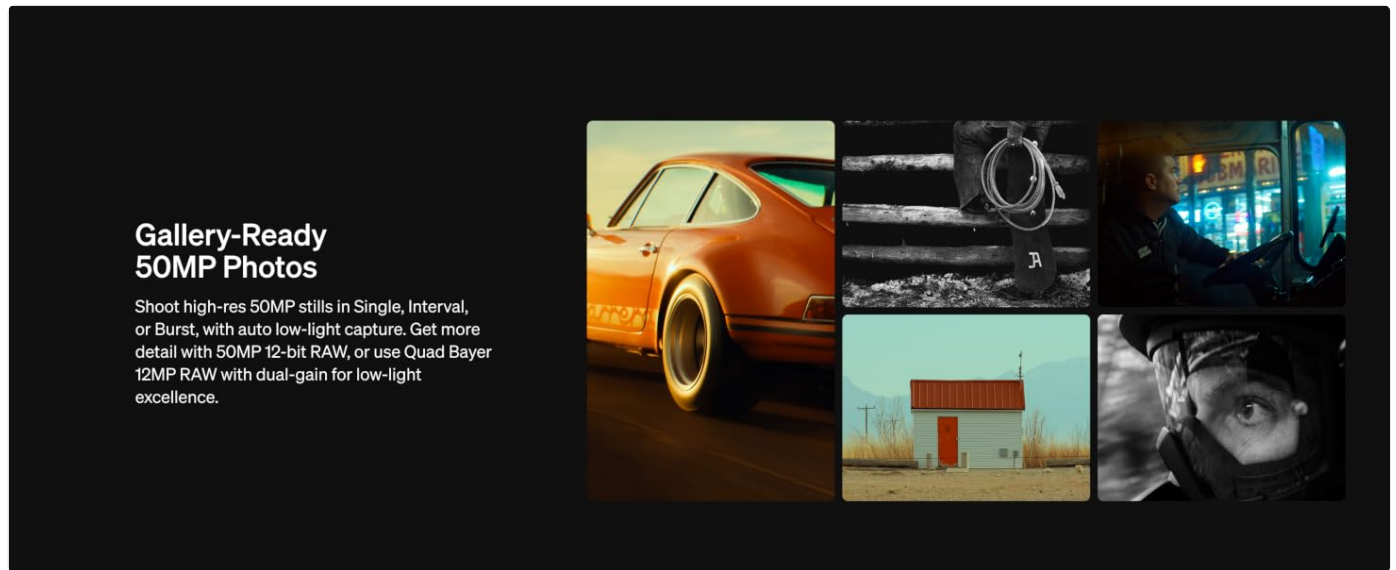


Image 4.2: Examples of gallery-ready 50MP photos captured by the Mission 1 PRO ILS.

### 4.4. HyperSmooth Stabilization

The camera features HyperSmooth video stabilization, which can be optimized based on the focal length of your attached lens.

- Access the stabilization settings via the camera's menu or the GoPro MISSION Monitor App.
- Input the focal length of your current lens for precise stabilization calculation.

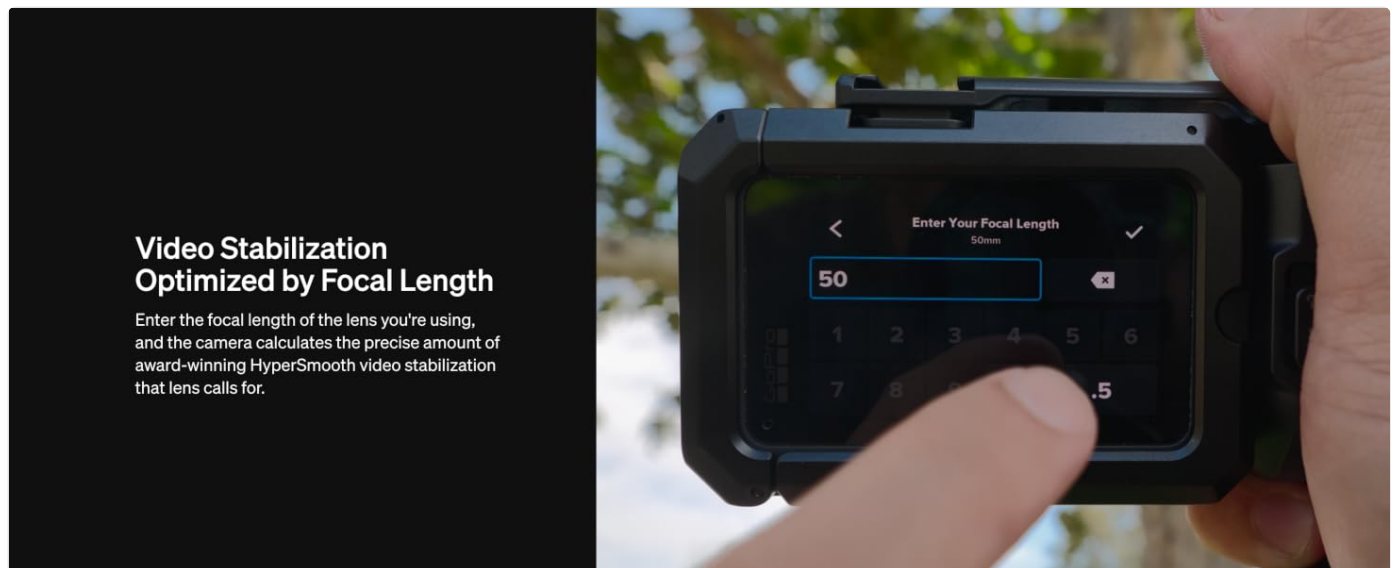


Image 4.3: On-screen interface for optimizing video stabilization by entering the lens's focal length.

### 4.5. Manual Focus and Aperture

When using manual focus and manual aperture MFT lenses, you have complete control over your shot.

- **Focus Assist:** Use the Focus Assist feature to confirm sharpness.
- **Focus Peaking:** Highlights in-focus edges in a color of your choice, available through the GoPro MISSION Monitor App.

### Manual Focus For Complete Control

Manual focus and manual aperture put you in charge of the shot. Focus Assist confirms sharpness, and Focus Peaking highlights every in-focus edge in a color you choose.



Image 4.4: A user manually adjusting the focus on an attached lens.

## 4.6. GoPro Labs (QR Control Ready)

GoPro Labs allows you to extend the camera's capabilities with custom features.

- Download the firmware from the GoPro website.
- Scan different QR codes to activate over 1,000 custom features, settings, and controls.

### GoPro Labs Goes Beyond Stock Features

Download the firmware + scan different QR codes to extend the capability of your camera with over 1,000 custom features, settings + controls tailored for advanced users looking for maximum control.



Image 4.5: A smartphone displaying a GoPro Labs QR code, ready for scanning by the camera to unlock advanced features.

## 4.7. GoPro MISSION Monitor App Features

The companion app provides advanced monitoring and control tools:

- **Focus + Exposure Tools:** Utilize Focus Peaking and Focus Assist. Pinch to zoom and check critical focus. Zebra Pattern flags overexposed areas.
- **Real-Time LUT Preview:** Preview your footage with GoPro's MISSION 1 Log LUT, a Quik LUT, or your custom LUTs live.
- **Composition Overlays:** Toggle Crosshair Overlays or Grid Lines for precise subject placement. Use Aspect Ratio Preview to visualize crops.

## Focus + Exposure Tools

Focus Peaking highlights in-focus edges in a color you choose, Focus Assist lets you pinch to zoom and check critical focus, and Zebra Pattern flags anything overexposed, so you can dial in your shot.

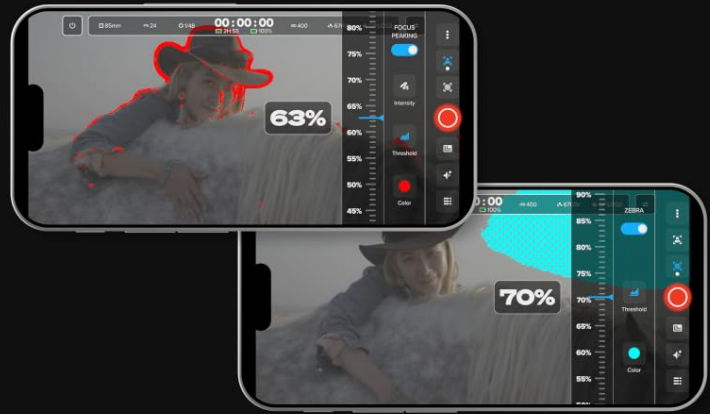


Image 4.6: The GoPro Mission Monitor App displaying Focus Peaking and exposure adjustment tools.

## Real-Time LUT Preview

Preview your footage in GoPro's MISSION 1 Log LUT, a Quik LUT or your own custom LUT, live, before a single frame is recorded.



Image 4.7: Real-time LUT preview functionality within the GoPro Mission Monitor App.

## Crosshairs, Grid Lines + Aspect Ratios

Toggle Crosshair Overlays or Grid Lines for precise subject placement, then use Aspect Ratio Preview to visualize any crop before you commit to the shot.

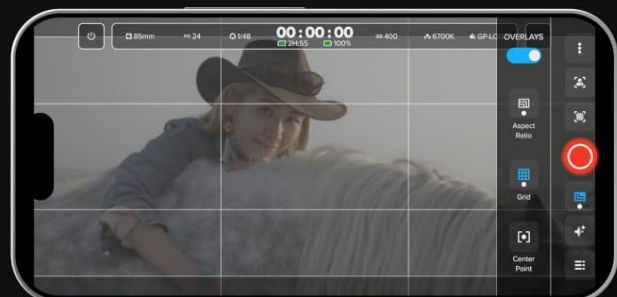
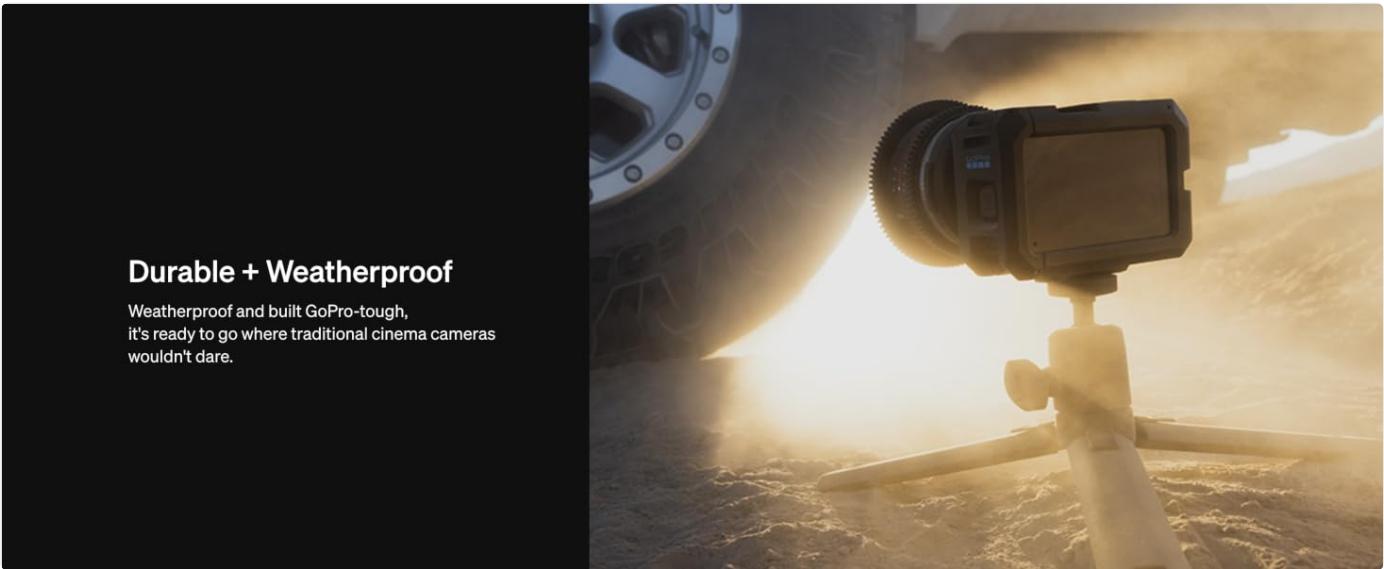


Image 4.8: Composition tools like crosshairs, grid lines, and aspect ratio previews in the GoPro Mission Monitor App.

## 5. MAINTENANCE

## 5.1. Cleaning the Camera

- Use a soft, lint-free cloth to clean the camera body.
- For the lens and sensor, use specialized lens cleaning solutions and cloths. Avoid touching the sensor directly.
- Ensure the camera is dry before storing or using in wet conditions. The camera is designed to be durable and weatherproof.



**Durable + Weatherproof**  
Weatherproof and built GoPro-tough,  
it's ready to go where traditional cinema cameras  
wouldn't dare.

Image 5.1: The Mission 1 PRO ILS demonstrating its durable and weatherproof construction in challenging environments.

## 5.2. Battery Care

- Charge the Enduro 2 Battery using the provided USB-C cable.
- Store batteries in a cool, dry place when not in use.
- Avoid extreme temperatures to prolong battery life.

## 5.3. Storage

When not in use, store the camera with the body cap attached in a protective case to prevent dust and damage.

# 6. TROUBLESHOOTING

If you encounter issues with your GoPro Mission 1 PRO ILS, consider the following basic troubleshooting steps:

- **Camera Not Powering On:** Ensure the battery is fully charged and correctly inserted.
- **Recording Issues:** Check if the Micro SD card has sufficient space and is properly formatted. Ensure the lens is securely attached.
- **App Connectivity Problems:** Verify Bluetooth and Wi-Fi are active on both the camera and your mobile device. Restart both devices if necessary.
- **Image Quality Concerns:** Clean the lens and sensor. Check your shooting settings (resolution, frame rate, ISO).

For more detailed troubleshooting or persistent issues, please refer to the official GoPro support website or contact customer service.

## 7. SPECIFICATIONS

| Feature | Specification |
|---------|---------------|
|---------|---------------|

| Feature                     | Specification                  |
|-----------------------------|--------------------------------|
| Brand                       | GoPro                          |
| Model Name                  | Mission 1 PRO ILS              |
| Model Number                | CHDHW-010-RW                   |
| Sensor Type                 | 1-inch CMOS (Quad-Bayer)       |
| Video Capture Resolution    | 8K (8000 pixels effective)     |
| Video Frame Rates           | Up to 8K60, 4K240              |
| Effective Still Resolution  | 50 MP                          |
| Image Stabilization         | HyperSmooth                    |
| Focus Type                  | Manual Focus (with MFT lenses) |
| Connectivity Technology     | USB                            |
| Flash Memory Type           | Micro SD                       |
| Item Dimensions (D x W x H) | 8.79"D x 4.25"W x 2.87"H       |
| Processor                   | GP3 Processor                  |
| Audio                       | 32-bit Float Audio             |
| Bit Rate                    | 240Mbps                        |

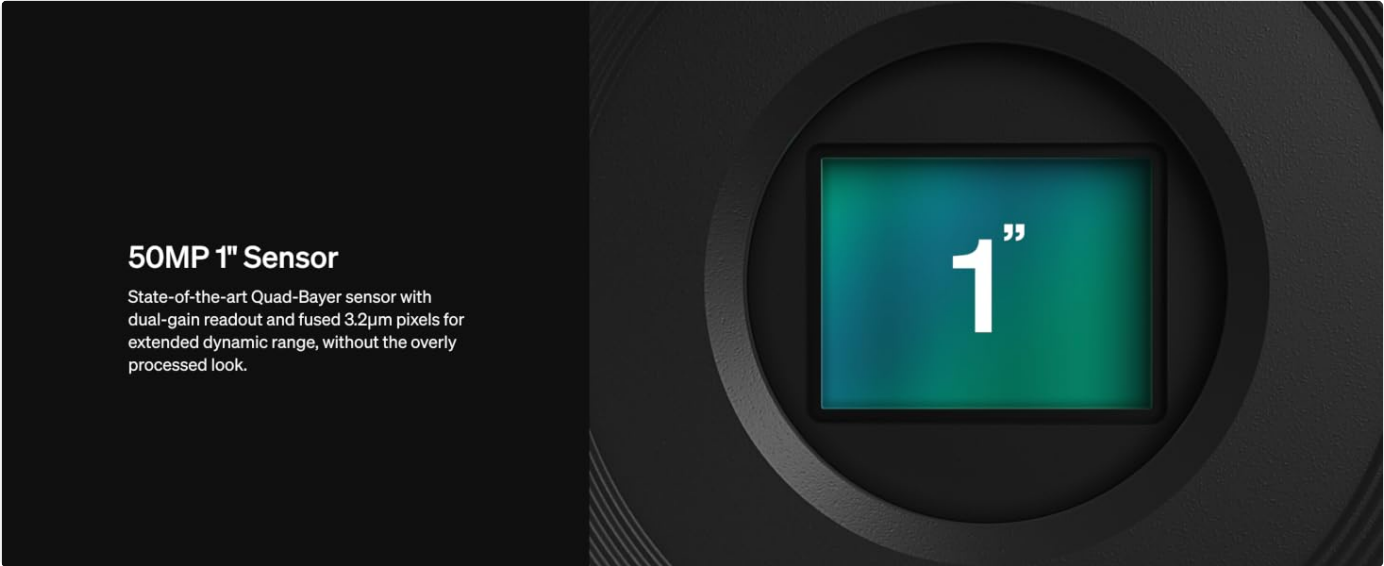
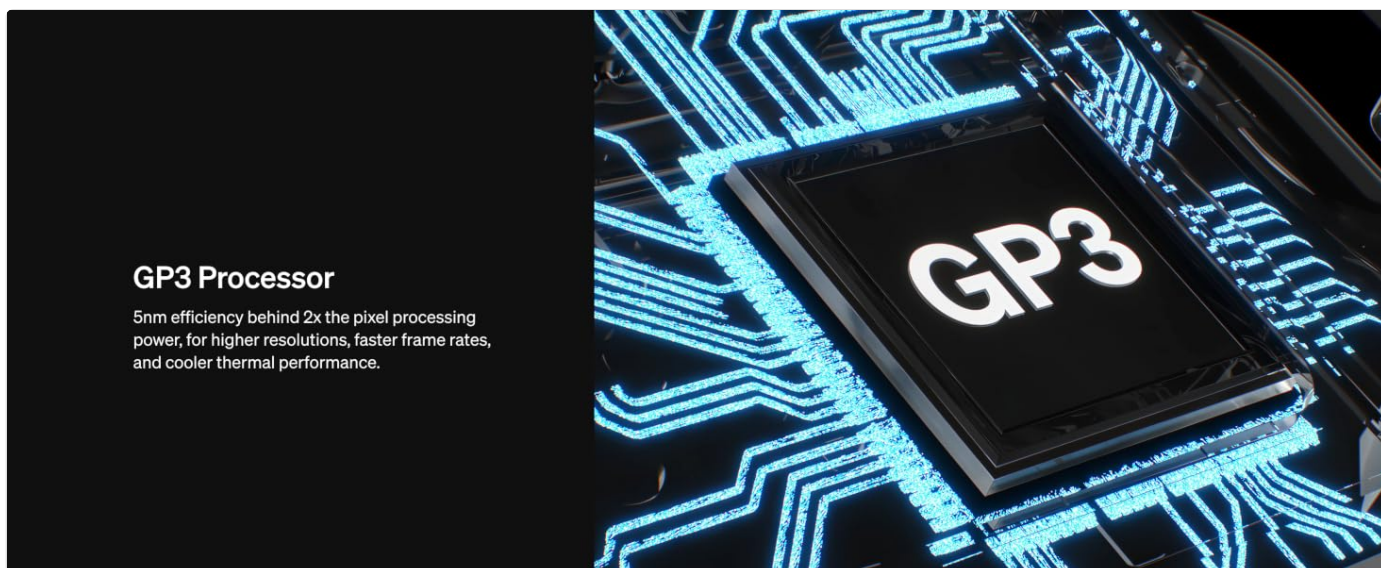


Image 7.1: A detailed view of the 50MP 1-inch Quad-Bayer sensor.



### GP3 Processor

5nm efficiency behind 2x the pixel processing power, for higher resolutions, faster frame rates, and cooler thermal performance.

Image 7.2: The GP3 Processor, responsible for high resolutions and faster frame rates.

## 8. WARRANTY INFORMATION

The GoPro Mission 1 PRO ILS comes with a **1 Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims. For full terms and conditions, visit the official GoPro website.

## 9. SUPPORT

For additional support, FAQs, firmware updates, and accessories, please visit the official GoPro support page:

[GoPro Support Website](#)

You can also explore the [GoPro Store on Amazon](#) for related products and information.

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## Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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