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## Panasonic Lumix GH7

# Panasonic Lumix GH7 Mirrorless Camera

## INSTRUCTION MANUAL

### 1. Introduction

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This manual provides essential information for the safe and effective use of your Panasonic Lumix GH7 Mirrorless Camera. Please read this manual thoroughly before using the camera and retain it for future reference. The Lumix GH7 is designed for advanced photography and videography, offering features such as ProRes RAW internal recording, 32-bit float audio recording, and a 25.2MP Micro Four Thirds sensor.

### 2. Product Overview

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The Panasonic Lumix GH7 is a high-performance mirrorless camera body, part of the Micro Four Thirds system. It is engineered for professional-grade video and high-resolution still photography.



Figure 2.1: Panasonic Lumix GH7 camera body shown with various bundled accessories including an LED light, memory card, battery, tripod, and cleaning kit.

### Key Features:

- 25.2MP Micro Four Thirds Sensor with improved 13+ stops dynamic range.
- ProRes RAW internal recording for high-quality video production.
- 32-bit float recording with optional DMW-XLR2 audio interface for enhanced audio fidelity.
- 5-axis in-body image stabilization.
- Phase Hybrid AF for precise autofocus performance.
- Frame.io compatibility and real-time custom LUTs.
- Compact form factor suitable for various production environments.

## 3. Setup

### 3.1. Battery Installation

1. Ensure the camera is powered off.
2. Open the battery compartment cover located at the bottom of the camera.
3. Insert the Panasonic DMW-BLK22 Lithium-Ion Battery (7.2V, 2200mAh) with the contacts facing inward, ensuring it clicks into place.
4. Close the battery compartment cover securely.

### 3.2. Charging the Battery

Use the provided Battery Charger to charge the DMW-BLK22 battery. Connect the charger to a power outlet and insert the battery. The charging indicator will show the charging status. A full charge typically takes approximately 3 hours.

### 3.3. Memory Card Insertion

The Lumix GH7 supports SD flash memory cards. For optimal performance, especially with ProRes RAW recording, use high-speed SDXC cards (UHS-II V90 recommended).

1. Locate the memory card slot on the side of the camera.
2. Open the memory card slot cover.
3. Insert the 64GB Memory Card (or other compatible SD card) into the slot with the label facing the correct direction, until it clicks into place.
4. Close the memory card slot cover securely.

### 3.4. Attaching Accessories

- **LED Square Light:** Mount the LED light onto the camera's hot shoe or a separate bracket. Ensure it is securely fastened.
- **U Grip / Grip Tripod:** Attach the U Grip or Grip Tripod to the camera's 1/4"-20 tripod socket at the bottom. These accessories provide enhanced stability and handling.
- **Shoulder Strap:** Attach the shoulder strap to the strap lugs on the camera body for secure carrying.

## 4. Operating the Camera

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### 4.1. Powering On/Off

To power on the camera, slide the power switch located on the top plate to the 'ON' position. To power off, slide it back to 'OFF'.



Figure 4.1: Top view of the Lumix GH7, highlighting the mode dial, power switch, and other control buttons.

## 4.2. Basic Controls and Display

The Lumix GH7 features a flexible LCD touchscreen and an electronic viewfinder. The LCD can be articulated for various shooting angles.



Figure 4.2: Rear view of the Lumix GH7, showing the articulated LCD screen and rear control layout.

- **Mode Dial:** Select shooting modes such as Movie, Landscape, Panorama, Portrait, Custom, Sports, and Shutter Priority.
- **Shutter Button:** Press halfway to focus, fully to capture an image.

- **Record Button:** Dedicated button for starting and stopping video recording.
- **LCD Touchscreen:** Navigate menus, select focus points, and review images/videos.

### 4.3. Focusing

The camera utilizes Contrast Detection Auto Focus (AF) with 256 autofocus points. It supports Continuous-Servo AF (AF-C) for tracking moving subjects.

- **Auto Focus:** The camera automatically focuses when the shutter button is pressed halfway.
- **Manual Focus:** Switch to manual focus mode on the lens or camera body for precise control.

### 4.4. Video Recording

The Lumix GH7 excels in video capabilities, offering 5.7K30 Apple ProRes 422 HQ internal recording and 32-bit float audio recording (with DMW-XLR2).

- Press the dedicated record button to start and stop video recording.
- Adjust video settings (resolution, frame rate, codec) in the camera's menu.
- Utilize real-time custom LUTs for on-set monitoring.

### 4.5. Image Stabilization

The camera features 5-axis in-body image stabilization (Digital Image Stabilization) to reduce blur from camera shake, especially useful for handheld shooting of both stills and video.

### 4.6. Connectivity

The Lumix GH7 supports Wi-Fi connectivity for remote control via a smartphone app and for transferring files. It also has a USB 2.0 port for data transfer.

## 5. Maintenance

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### 5.1. Cleaning the Camera

Regular cleaning helps maintain the camera's performance and longevity. Use the provided cleaning kit.

- **Body:** Wipe the camera body with a soft, dry, lint-free cloth. For stubborn dirt, slightly dampen the cloth with water.
- **Lens:** Use a lens brush to remove dust, then gently wipe with a lens cleaning cloth and lens cleaning solution.
- **Sensor:** Sensor cleaning should be performed with extreme care. If dust spots appear on images, consider using a blower bulb or consult a professional service.
- **LCD Screen:** Use a soft, dry cloth specifically designed for LCD screens.

### 5.2. Battery Care

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging batteries frequently to prolong their lifespan.
- Do not expose batteries to extreme temperatures.

### 5.3. Storage

When storing the camera for extended periods, remove the battery and memory card. Store the camera in a dry, dust-free environment, ideally in a camera case to protect it from impacts and moisture.

## 6. Troubleshooting

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This section addresses common issues you might encounter with your Lumix GH7 camera.

Problem	Possible Cause	Solution
Camera does not power on.	Battery is depleted or incorrectly inserted.	Charge the battery fully and ensure it is inserted correctly.
Images are blurry.	Incorrect focus, camera shake, or low light.	Check focus mode, use image stabilization, increase shutter speed, or use a tripod.
Memory card error.	Card is full, corrupted, or incompatible.	Delete files, format the card ( <i>will erase all data</i> ), or try a different compatible card.
Video recording stops unexpectedly.	Memory card write speed is too slow or camera overheats.	Use a faster memory card (e.g., UHS-II V90). Allow camera to cool down if overheated.
No audio in video.	Microphone muted or external microphone not connected properly.	Check audio settings in menu. Ensure external microphone is securely connected and powered.

If problems persist, consult the Panasonic support website or contact customer service.

## 7. Specifications

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Below are the detailed technical specifications for the Panasonic Lumix GH7 Mirrorless Camera.

Feature	Specification
Brand	Panasonic
Model Name	Lumix GH7
Sensor Type	CMOS
Photo Sensor Resolution	25.2 MP
Compatible Mountings	Micro Four Thirds
Image Stabilization	Digital (5-axis in-body)
Supported File Format	RAW, JPEG
Video Resolution	Up to 5.7K (2160p)
Frame Rate	30 FPS (for 5.7K)
Display Type	LCD (3 Inches, Adaptive Touch Screen)
Flash Memory Type	SD (Memory Slots Available: 1)
Memory Storage Capacity	Up to 512 GB (External-Memory Size: 256 GB)
Connectivity Technology	Wi-Fi, USB 2.0
Battery Type	Lithium Ion (DMW-BLK22)
Item Weight	2 Pounds
Item Dimensions (D x W x H)	4.15"D x 3"W x 1.83"H
Special Feature	ProRes RAW Internal Recording, 32-bit Float Audio, Adobe Cloud Frame.io Compatibility, Open Gate Framing, Real-time Custom LUTs
Autofocus Points	256
Continuous Shooting	16 fps

## 8. Warranty and Support

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For warranty information and details regarding your Panasonic Lumix GH7 Mirrorless Camera, please refer to the warranty card included with your product or visit the official Panasonic support website. Keep your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or service inquiries, please contact Panasonic customer support through their official channels. You can typically find contact information on the Panasonic website or in the documentation provided with your camera.

