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> Panasonic AG-UX90 4K Professional Camcorder User Manual

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Model: AG-UX90

1. INTRODUCTION AND OVERVIEW

The Panasonic AG-UX90 is a professional 4K/HD camcorder designed for high-quality video production. It features a 1-inch type MOS sensor and an integrated 15x optical zoom lens, capable of recording UHD 4K at up to 30p and Full HD at up to 60p. This manual provides essential information for setting up, operating, and maintaining your camcorder.

Key Features:

- 1.0"-Type MOS Sensor for UHD 4K (29.97/23.98p) and Full HD (59.94/29.97/23.98p) recording.
- FHD Variable Frame Rate up to 60 fps.
- UHD/FHD Dual-Codec Recording for flexible workflows.
- 16-Axis Color Correction Function for precise image control.
- 8.8 to 132mm 15x Optical Zoom with Optical Image Stabilization (OIS).
- Three manual lens control rings for iris, zoom, and focus.
- 3.5" LCD touch screen and 0.24" LCoS viewfinder for monitoring.
- Dual SD card slots supporting simultaneous and relay recording.



Figure 1.1: Front view of the Panasonic AG-UX90 4K Professional Camcorder, showcasing its lens and body design.

2. WHAT'S IN THE BOX

Upon opening the package, ensure all the following items are present:

- Panasonic AG-UX90 4K Professional Camcorder (AG-UX90PJ)
- Power Adapter/Charger
- Power Cable
- Rechargeable Battery Pack
- Shoulder Strap
- Lens Hood
- Eyecup
- Operating Instructions (this manual)

Note: Specific accessories may vary based on region or package.

3. SETUP

3.1. Charging and Installing the Battery

1. Connect the power adapter to the camcorder and a power outlet.
2. Insert the rechargeable battery pack into the designated battery slot on the rear of the camcorder until it clicks into place.
3. Allow the battery to fully charge before first use. The charging indicator will typically change color or turn off when charging is complete.
4. To remove the battery, slide the battery release lever and gently pull the battery out.

3.2. Inserting SD Cards

1. Locate the dual SD card slots, typically on the side or rear of the camcorder.

2. Open the SD card slot cover.
3. Insert an SD card (Class 10 or higher, U3 recommended for 4K recording) into each slot with the label facing the correct direction, until it clicks.
4. Close the SD card slot cover securely.
5. Format the SD cards using the camcorder's menu system before first use to ensure optimal performance. Refer to the "Operating" section for menu navigation.

3.3. Powering On/Off and Initial Settings

1. To power on, slide the POWER switch to the ON position.
2. Upon first power-on, the camcorder may prompt you to set the language, date, and time. Follow the on-screen instructions using the LCD touch screen or control buttons.
3. To power off, slide the POWER switch to the OFF position.

4. OPERATING THE CAMCORDER

4.1. Recording Modes and Settings

The AG-UX90 supports various recording formats and frame rates:

- **UHD 4K:** Records at 29.97p or 23.98p in MOV and MP4 formats.
- **Full HD:** Records at 59.94p, 29.97p, or 23.98p in MOV, MP4, and AVCHD formats.
- **Variable Frame Rate (VFR):** Available in FHD mode, allowing recording up to 60 fps for slow-motion effects.

Access these settings via the camcorder's menu system, typically found by pressing the MENU button and navigating with the joystick or touch screen.

4.2. Lens Control Rings (Iris, Zoom, Focus)

The camcorder features three dedicated manual control rings on the lens barrel:

- **Iris Ring:** Adjusts the aperture (f-stop) to control the amount of light entering the lens and depth of field.
- **Zoom Ring:** Manually adjusts the optical zoom from wide to telephoto.
- **Focus Ring:** Manually adjusts the focus for precise sharpness.

Ensure the camcorder is in manual mode for these rings to be active. Refer to the menu for switching between auto and manual control for each function.

4.3. Monitoring with LCD Touch Screen and Viewfinder

- **3.5" LCD Touch Screen:** Provides a clear view of your footage, menu navigation, and access to various settings via touch input. It can be rotated for different viewing angles.
- **0.24" LCoS Viewfinder:** Offers a high-resolution display for critical focusing and monitoring, especially in bright outdoor conditions. Adjust the diopter for clear viewing.

You can switch between the LCD and viewfinder, or use both simultaneously, depending on your preference and shooting situation.

4.4. Dual SD Card Recording

The AG-UX90 features two SD card slots, offering enhanced recording capabilities:

- **Simultaneous Recording:** Records the same footage to both SD cards simultaneously, providing an instant backup.
- **Relay Recording:** When one SD card becomes full, the camcorder automatically switches to the second card, allowing for extended recording times without interruption.

These modes can be configured in the camcorder's recording settings menu.

5. MAINTENANCE

5.1. Cleaning the Camcorder

- **Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, use a small amount of lens cleaning fluid. Avoid touching the lens surface with your fingers.
- **Body:** Wipe the camcorder body with a soft, dry cloth. For dirt, slightly dampen the cloth with water. Do not use strong detergents or solvents.
- **LCD Screen:** Use a soft, dry cloth. Avoid excessive pressure.

Always power off the camcorder before cleaning.

5.2. Battery Care and Storage

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging batteries frequently, as this can reduce their lifespan.
- If storing for an extended period, charge the battery to approximately 50% capacity.
- Do not expose batteries to extreme temperatures or direct sunlight.

5.3. General Storage

When not in use, store the camcorder in a protective bag or case to prevent dust accumulation and physical damage. Avoid storing in areas with high humidity or extreme temperature fluctuations.

6. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, contact customer support.

Problem	Possible Cause	Solution
Camcorder does not power on.	Battery is depleted or not inserted correctly.	Ensure battery is fully charged and properly seated. Check power adapter connection if using AC power.
Cannot record footage.	SD card is full, not inserted, or not formatted.	Insert a formatted SD card with sufficient space. Check card lock switch.
Image is blurry or out of focus.	Manual focus is engaged, or autofocus is struggling.	Adjust the focus ring manually or switch to autofocus mode. Clean the lens if smudged.
No audio recording.	Microphone is muted or external microphone is not connected properly.	Check audio settings in the menu. Ensure external microphone is securely connected and powered (if applicable).

7. SPECIFICATIONS

Feature	Detail
Brand	Panasonic
Model Number	AG-UX90PJ-cr
Sensor Type	1.0"-Type MOS Sensor

Feature	Detail
Video Capture Resolution	4K UHD
Optical Zoom	15x
Maximum Aperture	f/2.8
Screen Size	3.5 Inches (LCD Touch Screen)
Viewfinder	0.24" LCoS (1,560,000 dots)
Flash Memory Type	SD (Dual Slots)
Video Capture Format	MOV, MP4, AVCHD
Supported Audio Format	AAC, AC-3
Image Stabilization	Optical Image Stabilization (OIS)
Focus Type	Manual Focus
Exposure Control Type	Manual
Connectivity Technology	SD card slot
Wireless Compatibility	802.11a/b/g/n/ac
Item Weight	6.9 Pounds
Color	Black
Features	Anti-Shake, Night Vision, Time Lapse

8. WARRANTY AND SUPPORT

8.1. Limited Warranty

This Panasonic AG-UX90 camcorder comes with a **90 days limited warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Panasonic support website.

8.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Panasonic customer support.

Panasonic Support Website: <https://na.panasonic.com/us/support> (This is a general link; please refer to your region's specific support page.)

When contacting support, please have your camcorder's model number (AG-UX90) and serial number ready.



