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Panasonic AG-CX350

Panasonic AG-CX350 4K Camcorder User Manual

Model: AG-CX350

Introduction

This manual provides essential instructions for the safe and effective use of your Panasonic AG-CX350 4K Camcorder. The AG-CX350 is a professional UHD 4K camcorder designed for high-quality video production, featuring a 1" MOS sensor and versatile recording capabilities. Please read this manual thoroughly before operating the camcorder and retain it for future reference.

Safety Information

Always observe the following safety precautions to prevent injury, damage to the camcorder, or loss of data.

- Do not expose the camcorder to rain, moisture, or extreme temperatures.
- Avoid dropping or subjecting the camcorder to strong impacts.
- Use only Panasonic-approved batteries and power adapters.
- Do not attempt to disassemble or modify the camcorder. Refer all servicing to qualified personnel.
- Keep the camcorder away from strong magnetic fields.
- Ensure proper ventilation when operating to prevent overheating.

Package Contents

Verify that all items listed below are included in your package.

- Panasonic AG-CX350 4K Camcorder
- 7.28V 43Wh Lithium-Ion Battery (5,900mAh)
- Battery Charger & AC Cable
- AC Adapter
- Grip Belt
- Microphone Holder
- Set of Screws for Microphone Holder
- Microphone Holder Adapter

- Lens Hood (Attached to Camera Body)
- Sony ECM-VG1 Electret Condenser Shotgun Microphone
- 7" Full HD Monitor with 4K Support
- Wireless Lapel & Handheld Microphone System
- 128GB SF-UY3 Series UHS-I SDXC Memory Card
- Large Padded Carrying Case
- Professional 160 LED Video Light Studio Series
- 67mm Telephoto HD Lens
- 67mm Wide Angle Lens with Pouch and Lens Caps
- Professional Full Size Tripod
- 67mm Close Up Filter Set (+1, +2, +4, +10 Diopters)
- 67mm 3-piece Lens Filter Kit (UV, Circular Polarizer, FLD)
- 6 x 6 inch Straps (Assorted Colors)
- Lens Cleaning Solution
- Blower Brush
- Microfiber Cloth
- Lens Tissue Paper
- 5pc Cotton Swabs
- Lens Pen Cleaner
- SD Card USB Reader
- Memory Card Wallet



Figure 1: Overview of the Panasonic AG-CX350 camcorder and its comprehensive accessory bundle.

Setup

1. Battery Installation

1. Ensure the camcorder is powered off.
2. Locate the battery compartment on the rear of the camcorder.

3. Insert the 7.28V 43Wh Lithium-Ion Battery, ensuring it clicks securely into place.
4. To charge, connect the battery charger to the battery and then to an AC power outlet.



Figure 2: Rear panel of the camcorder, illustrating the battery slot and connectivity options.

2. Memory Card Installation

1. Open the memory card slot cover, typically located on the side of the camcorder.
2. Insert the 128GB SF-UY3 Series UHS-I SDXC Memory Card into one of the two available slots until it clicks.
3. Close the memory card slot cover firmly.

3. Attaching Accessories

- **Microphone:** Attach the Sony ECM-VG1 Electret Condenser Shotgun Microphone to the microphone holder and secure it to the camcorder's hot shoe mount using the provided screws. Connect the microphone cable to the appropriate audio input.
- **Monitor:** Mount the 7" Full HD Monitor to an available accessory shoe or mounting point. Connect it to the camcorder via an HDMI cable for external monitoring.
- **Tripod:** Secure the camcorder to the Professional Full Size Tripod using the tripod's quick-release plate and the camcorder's tripod mount screw hole.
- **Lenses/Filters:** Attach the 67mm Telephoto HD Lens, 67mm Wide Angle Lens, or the 67mm Close Up Filter Set/3-piece Lens Filter Kit to the front of the camcorder's main lens by screwing them into the filter threads.
- **LED Light:** Mount the Professional 160 LED Video Light Studio Series to an accessory shoe and connect it to its power source.



Figure 3: Front and side view of the camcorder, showing the lens, microphone, and controls.

Operating the Camcorder

1. Power On/Off

Locate the power switch, typically near the battery compartment or on the side panel. Slide it to the "ON" position to power on the camcorder. To power off, slide it to the "OFF" position.

2. Basic Controls: Zoom, Focus, Iris

The AG-CX350 features individual rings for zoom, focus, and iris control on the lens barrel.

- **Zoom Ring:** Rotate to adjust the optical zoom (20x optical, 32x intelligent zoom).
- **Focus Ring:** Rotate to manually adjust focus. Auto-focus modes are also available via menu settings.
- **Iris Ring:** Adjusts the aperture to control the amount of light entering the lens.



Figure 4: Side view of the camcorder, showing the lens control rings and various function buttons.

3. Recording Modes and Frame Rates

The camcorder supports various recording formats and frame rates.

- **UHD 4K (3840 x 2160):** Records in MOV format at data rates up to 400 Mb/s, or HEVC at up to 200 Mb/s.
- **HD (1080p):** Records in MOV or AVCHD format.
- **Variable Frame Rate:** Adjustable from 1 to 60 fps in UHD and 1 to 120 fps in HD for slow-motion or fast-motion effects. Access these settings through the camcorder's menu system.

4. Gamma Settings (HLG)

The AG-CX350 offers eight different gamma settings, including HLG (Hybrid Log-Gamma) for HDR (High Dynamic Range) output. Select the desired gamma setting from the camcorder's picture profile menu to optimize your footage for different post-production workflows or display types.

5. Audio Settings

The camcorder features a front-mounted microphone and dedicated audio level controls.

- Adjust audio input levels using the physical dials or menu options to prevent clipping or low audio.
- Monitor audio levels using the on-screen meters or through headphones connected to the camcorder's headphone jack.

6. Connectivity

The camcorder provides various output and input ports for professional integration.

- **HDMI Out:** For connecting to external monitors or recorders.
- **3G-SDI Out:** Professional video output for long cable runs and broadcast equipment.
- **TC In/Out:** Timecode input/output for synchronization with other cameras or audio recorders.

- **LAN:** For network connectivity and IP streaming capabilities.

Maintenance

1. Cleaning

- **Lens:** Use the provided lens cleaning solution, microfiber cloth, and lens pen cleaner. Gently wipe the lens in a circular motion from the center outwards. Use the blower brush to remove dust particles.
- **Body:** Wipe the camcorder body with a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water. Avoid using harsh chemicals.
- **Sensor:** Sensor cleaning should only be performed by qualified service personnel to avoid damage.

2. Storage

- Store the camcorder in a cool, dry place, away from direct sunlight and high humidity.
- Remove the battery if the camcorder will not be used for an extended period.
- Use the large padded carrying case for transport and long-term storage to protect against dust and physical damage.

Troubleshooting

If you encounter issues with your camcorder, refer to the following common solutions.

- **Camcorder does not power on:**
  - Ensure the battery is fully charged and correctly inserted.
  - Verify the AC adapter is properly connected if using external power.
- **No image on screen/viewfinder:**
  - Check if the lens cap is removed.
  - Adjust brightness settings for the LCD screen or OLED viewfinder.
  - Ensure the camcorder is in a recording or playback mode.
- **Recording issues (e.g., dropped frames):**
  - Ensure the memory card has sufficient free space.
  - Use a high-speed SDXC card (UHS-I or faster) suitable for 4K recording.
  - Format the memory card in the camcorder.
- **Audio problems:**
  - Check microphone connections and ensure it is powered if required.
  - Adjust audio input levels.
  - Verify audio monitoring settings.

For more complex issues, consult the official Panasonic support website or contact customer service.

Specifications

Feature	Detail

Brand	Panasonic
Model Number	AG-CX350
Sensor Type	1" MOS Sensor
Video Capture Resolution	UHD 4K (3840 x 2160), 1080p
Video Capture Format	MOV, AVCHD, HEVC
Optical Zoom	20x Optical, 32x Intelligent Zoom
Frame Rate (UHD)	1 to 60 fps (Variable)
Frame Rate (HD)	1 to 120 fps (Variable)
Gamma Settings	8 options, including HLG (HDR)
Screen Size	3.2 Inches LCD
Viewfinder	OLED Viewfinder
Memory Card Type	SD (2 slots)
Connectivity	HDMI, 3G-SDI, TC In/Out, LAN, Wireless
Item Weight	Approximately 25 pounds (with accessories)
Product Dimensions	7.09 x 6.81 x 12.24 inches (Camcorder body)

Warranty and Support

For information regarding warranty coverage, product registration, or technical support, please visit the official Panasonic website or contact their customer service department. Keep your purchase receipt as proof of purchase.
Online Support: na.panasonic.com/us/support

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