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› Panasonic AG-CX350 4K Camcorder Instruction Manual

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Model: AG-CX350

1. PRODUCT OVERVIEW

The Panasonic AG-CX350 4K Camcorder is a professional-grade device designed for high-quality video production, offering a fusion of communication and broadcasting capabilities. This compact camcorder features a 1-inch MOS sensor, capable of recording in UHD resolution (3840 x 2160) and 1080p. It supports various data rates and formats, including MOV, HEVC, and AVCHD, providing flexibility for different production needs. The camcorder includes a 20x optical zoom and 32x intelligent zoom, along with individual rings for precise control over zoom, focus, and iris. Users can select from eight different gamma settings, including HLG for HDR output. Variable frame rate capabilities range from 1 to 60 fps in UHD and 1 to 120 fps in HD. Dual SD card slots enable simultaneous, relay, and background recording, ensuring continuous capture and data redundancy.



Figure 1.1: Panasonic AG-CX350 4K Camcorder with included accessories.

2. SETUP GUIDE

2.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed below are present:

- 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)

- UV Protective Filter
- Circular Polarizing Filter
- Fluorescent Filter

2.2 Battery Installation and Charging

1. Ensure the camcorder is powered off.
2. Open the battery compartment cover, typically located at the rear of the camcorder.
3. Insert the provided Lithium-Ion battery into the compartment, ensuring proper orientation until it clicks into place.
4. Close the battery compartment cover.
5. To charge the battery, connect the AC Adapter to the camcorder's DC IN port and plug it into a power outlet. Alternatively, use the external battery charger.

2.3 Memory Card Insertion

1. Locate the dual SD card slots, typically on the side or rear of the camcorder.
2. Open the memory card slot cover.
3. Insert an SD card (UHS Speed Class U3 or higher, Video Speed Class V30+) into each slot with the label facing the correct direction, until it clicks.
4. Close the memory card slot cover securely.



Figure 2.1: Rear view of the camcorder, highlighting battery and SD card slots.

2.4 Attaching Accessories

Attach the lens hood to the front of the lens by aligning the marks and twisting until secure. Use the provided screws to attach the microphone holder to the designated mounting point on the camcorder body, then insert the microphone into the holder.



Figure 2.2: Front-side view of the camcorder with lens hood and microphone.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

To power on the camcorder, slide the POWER switch to the 'ON' position. To power off, slide the switch to 'OFF'.

3.2 Basic Recording

Press the REC START/STOP button to begin recording. Press it again to stop. The camcorder records in UHD 4K or 1080p, with variable frame rates from 1 to 120 fps depending on the resolution. Recording formats include MOV, HEVC, and AVCHD. Utilize the dual SD card slots for continuous recording or instant backup.

3.3 Zoom, Focus, and Iris Control

The AG-CX350 features individual rings on the lens for precise manual control over zoom, focus, and iris. Use these rings to adjust your shot as needed. The 20x optical zoom and 32x intelligent zoom provide extensive reach.

3.4 Display and Viewfinder

Monitor your footage using the 3.2-inch LCD screen or the OLED viewfinder. The LCD screen can be articulated for various shooting angles.



Figure 3.1: The camcorder in hand, showing the viewfinder and top handle.

3.5 Connectivity

The camcorder offers multiple connectivity options:

- **HDMI Out:** Connect to external monitors or live streaming devices for clean 4K output.
- **3G-SDI:** For professional video connections.
- **LAN/USB:** For network connectivity and data transfer.
- **TC In/Out:** For timecode synchronization.

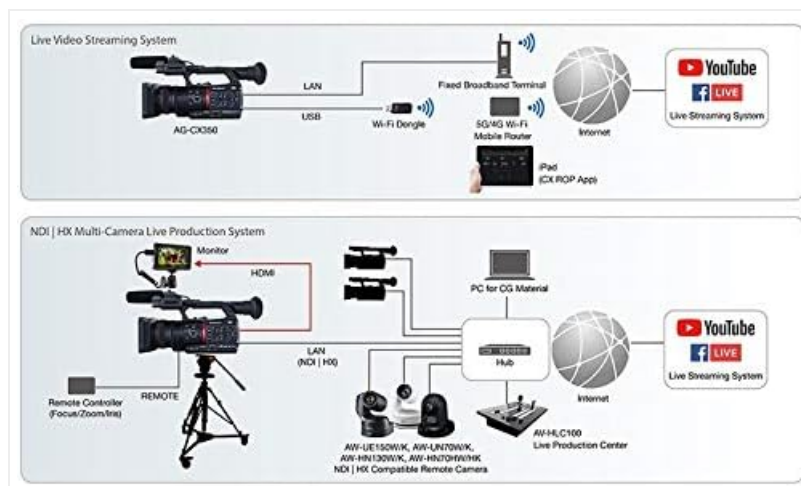


Figure 3.2: Live streaming and multi-camera setup diagram for the AG-CX350.

4. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your camcorder.

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. Avoid harsh chemicals.
- **Cleaning the Body:** Wipe the camcorder body with a dry, soft cloth. For stubborn dirt, slightly dampen the cloth with water.
- **Battery Care:** Store batteries in a cool, dry place. Avoid fully discharging or overcharging for extended periods.

- **Storage:** When not in use, store the camcorder in a protective case in a dust-free environment.

5. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting, refer to the complete manufacturer's manual.

- **Camcorder does not power on:** Ensure the battery is correctly inserted and charged, or the AC adapter is properly connected.
- **Recording issues:** Check if the memory card has sufficient free space and is correctly formatted. Verify recording settings.
- **No image on external monitor:** Confirm HDMI/SDI cable connections and ensure the external monitor is set to the correct input.
- **Poor audio quality:** Check microphone connection, audio levels, and ensure no obstructions are blocking the microphone.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Panasonic
Model Name	AG-CX350
Photo Sensor Technology	MOS
Video Capture Resolution	UHD 4K, 1080p
Flash Memory Type	SD (UHS Speed Class U3 or higher, Video Speed Class V30+)
Video Capture Format	MOV, HEVC, AVCHD
Supported Audio Format	AAC, LPCM, PCM
Screen Size	3.2 Inches (LCD)
Connectivity Technology	HDMI, 3G-SDI, LAN, USB
Special Feature	Anti-Shake, Low Light, Time Lapse, Variable Frame Rate, HLG Recording
Image Stabilization	Optical
Optical Zoom	20x
Intelligent Zoom	32x
Item Weight	10.16 Pounds
Item Dimensions (D x W x H)	6.81"D x 12.24"W x 7.09"H

7. WARRANTY AND CUSTOMER SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official Panasonic website. For technical support, service, or inquiries, please contact Panasonic customer support through their official channels.

