Sony HDRCX900

Sony HDR-CX900 Video Camera User Manual

Model: HDR-CX900/B

1. Introduction

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Sony HDR-CX900 video camera. The HDR-CX900 is designed for high-definition video recording, featuring a 1-inch Exmor R CMOS sensor for enhanced image quality and depth.
Key features include:

- 1-inch Exmor R CMOS sensor with Direct Pixel Read Out for superior light sensitivity and reduced noise.
- Ability to capture 14MP resolution video and 20MP still images.
- Versatile recording options with XAVC S, AVCHD, and MP4 codecs.
- Optical SteadyShot Image Stabilization with Intelligent Active Mode for smooth footage.
- ZEISS Vario-Sonnar T* lens with 12x optical zoom.
- Large 3.5-inch Xtra Fine LCD and a high-contrast 0.39-inch OLED EVF.
- Integrated Wi-Fi/NFC for simplified smartphone connectivity.

2. What's in the Box

Verify that all items listed below are included in your product packaging:

- Sony HDR-CX900 Full HD Handycam Camcorder (Black)
- NP-FV50 Rechargeable Battery Pack (1030mAh, 6.8-8.4V)
- AC-L200 AC Adapter
- Power Cord
- Micro HDMI Cable
- USB Connection Support Cable
- RMT-835 Remote Commander
- CR2025 Battery for Remote Commander
- Lens Hood

- Lens Cap
- Operating Guide (this document)
- Warranty Card

3. Setup

3.1. Charging the Battery

Before initial use, fully charge the supplied NP-FV50 battery pack using the AC-L200 AC Adapter and power cord. Connect the AC adapter to the camera's DC IN terminal and then to a wall outlet. The charging indicator will illuminate during charging and turn off when complete.

3.2. Inserting the Battery and Memory Card

Open the battery compartment cover and insert the NP-FV50 battery pack until it clicks into place. Open the memory card slot cover and insert a compatible memory card (Class 10+ SDXC recommended for XAVC S recording) with the contacts facing the correct direction until it locks.



Figure 3.2.1: Rear view of the camcorder showing the battery compartment and open LCD screen.

3.3. Attaching the Lens Hood

Attach the supplied lens hood to reduce glare and protect the lens. Align the lens hood with the front of the lens and twist gently until it locks into position.



Figure 3.3.1: Front-angle view of the camcorder with the lens hood attached.

4. Operation

4.1. Powering On/Off

To power on the camcorder, open the LCD screen or slide the POWER switch. To power off, close the LCD screen or slide the POWER switch to the OFF position.

4.2. Recording Video

Press the START/STOP button to begin and end video recording. The camcorder supports XAVC S (up to 50Mbps), AVCHD, and MP4 codecs. Select your preferred recording format via the menu settings.



Figure 4.2.1: Side view of the camcorder highlighting recording controls.

4.3. Zoom and Focus Control

Use the zoom lever to adjust the 12x optical zoom. The camcorder also features 24x Clear Image zoom. For focus,

switch between AF/MF (Auto Focus/Manual Focus) using the dedicated switch. In manual focus mode, use the focus ring on the lens barrel for precise adjustments.

4.4. Still Image Capture

Press the PHOTO button to capture 20MP still images during video recording or in dedicated photo mode.

4.5. Using the LCD Screen and EVF

The 3.5-inch Xtra Fine LCD provides a clear view for framing and reviewing shots. For eye-level framing, especially in bright conditions, use the 0.39-inch OLED Tru-Finder EVF. Adjust the diopter for clear viewing.



Figure 4.5.1: Rear view of the camcorder with the LCD screen open.

4.6. Wi-Fi and NFC Connectivity

The camcorder supports Wi-Fi and NFC for easy connection to smartphones and tablets. Use NFC for one-touch connection by simply touching compatible devices. This enables features like one-touch sharing and remote control via a smartphone application.

5. Maintenance

5.1. Cleaning the Camcorder

- **Body:** Wipe the camcorder body with a soft, dry cloth. For stubborn dirt, use a cloth lightly dampened with water or a mild detergent, then wipe dry.
- **Lens:** Use a lens brush to remove dust, then gently wipe with a lens cleaning cloth. Avoid touching the lens surface with your fingers.
- **LCD Screen/EVF:** Gently wipe with a soft, lint-free cloth. Do not use alcohol or harsh chemicals.

5.2. Battery Care

To prolong battery life, avoid exposing the battery to extreme temperatures. Store the battery in a cool, dry place when not in use. Fully charge the battery before long periods of storage and recharge every six months to prevent

deep discharge.

6. Troubleshooting

Problem	Possible Cause / Solution
Camcorder does not power on.	Ensure the battery is fully charged and correctly inserted. Check if the AC adapter is properly connected if operating on external power.
Recording does not start.	Verify that a memory card is inserted and has sufficient free space. Check if the camcorder is in recording mode.
Image is blurry or out of focus.	Ensure the camcorder is in Auto Focus (AF) mode, or adjust focus manually using the focus ring if in Manual Focus (MF) mode. Clean the lens if smudges are present.
Wi-Fi/NFC connection fails.	Ensure Wi-Fi/NFC is enabled on both the camcorder and the connecting device. For NFC, ensure devices are touched correctly. Check for interference or distance issues.
Viewfinder image is unclear.	Adjust the diopter on the EVF to match your eyesight. Ensure the EVF is clean.

7. Specifications

Feature	Detail
Model Number	HDRCX900/B
Product Dimensions	9.57 x 6.61 x 5.49 inches
Item Weight	1.74 pounds
Sensor Type	1-inch Exmor R CMOS with Direct Pixel Read Out
Video Capture Resolution	Full HD (14MP equivalent)
Still Image Resolution	20MP
Lens	ZEISS Vario-Sonnar T* Lens, 12x Optical Zoom
Maximum Focal Length	111.6 Millimeters
Maximum Aperture	f/2
Screen Size	3.5 Inches (Xtra Fine LCD)
Viewfinder	0.39-inch OLED Tru-Finder EVF
Connectivity	NFC, Wi-Fi
Battery Type	Lithium Ion (NP-FV50 included)
Video Capture Format	XAVC S, AVCHD, MP4

Feature	Detail
Flash Memory Type	Memory Stick (compatible with SDXC)

8. Warranty and Support

For detailed warranty information, please refer to the warranty card included in your product packaging or visit the official Sony support website. Technical support and service information can also be found on the Sony website.
Manufacturer: Sony
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