

## Sony PXWZ190

# Sony PXW-Z190 4K XDCAM Professional Camcorder Instruction Manual

Model: PXW-Z190

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and effective operation of your Sony PXW-Z190 4K XDCAM Professional Camcorder. Please read this manual thoroughly before using the camcorder and retain it for future reference. Understanding the features and functions will ensure optimal performance and longevity of your device.

## 2. WHAT'S IN THE BOX

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Upon unpacking your Sony PXW-Z190 camcorder, verify that all listed components are present:

- Sony PXW-Z190 Camcorder
- Battery (1 Lithium Ion battery required, included)
- Power Adapter/Charger
- Shoulder Strap
- Lens Hood
- Eyecup

## 3. PRODUCT OVERVIEW

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Familiarize yourself with the physical components of your camcorder.



Figure 3.1: Front-side view of the Sony PXW-Z190 camcorder, showing the lens, handle, and main controls.



Figure 3.2: Left side view of the camcorder, highlighting the handgrip and various input/output ports.



Figure 3.3: Right side view of the camcorder, displaying the main control panel and lens rings.



Figure 3.4: Rear view of the camcorder, showing the battery compartment, viewfinder, and various connectivity ports.



Figure 3.5: Top view of the camcorder, illustrating the handle, microphone, and accessory shoe.

## 4. SETUP

## 4.1. Battery Installation

1. Ensure the camcorder is powered off.
2. Locate the battery compartment at the rear of the camcorder.
3. Align the battery with the compartment and slide it in until it clicks securely into place.
4. To remove, press the battery release lever and slide the battery out.

## 4.2. SD Card Installation

The PXW-Z190 supports dual SD card slots for recording.

1. Ensure the camcorder is powered off.
2. Open the SD card slot cover.
3. Insert the SD card(s) into the designated slot(s) with the label facing the correct direction until it clicks.
4. Close the SD card slot cover.
5. **Important:** For optimal performance and compatibility with newer, high-speed SD cards, ensure your camcorder's firmware is updated to the latest version. Refer to Section 6.2 for firmware update instructions.

## 4.3. Powering On/Off

1. To power on, slide the POWER switch to the ON position.
2. To power off, slide the POWER switch to the OFF position.

# 5. OPERATING

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## 5.1. Basic Recording

1. Power on the camcorder.
2. Select your desired recording format (e.g., 4K 60P in XAVC Long GOP).
3. Press the REC START/STOP button to begin recording. The REC indicator will illuminate.
4. Press the REC START/STOP button again to stop recording.

## 5.2. Lens and Zoom Control

The camcorder features a 25x optical zoom Sony G Lens.

- **Zoom Lever:** Use the zoom lever on the handgrip for smooth zoom operations.
- **Zoom Ring:** For precise manual zoom, use the dedicated zoom ring on the lens.

## 5.3. Focus Control

- **Auto Focus (AF):** Set the FOCUS switch to AUTO for automatic focusing.
- **Manual Focus (MF):** Set the FOCUS switch to MANUAL and use the focus ring on the lens to adjust focus. Utilize the peaking function for focus assistance.

## 5.4. Exposure Control

- **Iris:** Adjust the aperture using the IRIS ring or the IRIS dial.
- **Gain:** Control signal amplification using the GAIN switch.
- **Shutter Speed:** Adjust the shutter speed via the menu or dedicated controls.
- **Electronic Variable ND Filter:** Use the built-in Electronic Variable ND filter to control the amount of light

entering the lens, especially in bright conditions.

## 5.5. Audio Settings

The camcorder supports various audio inputs and controls.

- **XLR Inputs:** Connect external microphones via the XLR inputs.
- **Audio Level Dials:** Adjust audio input levels using the dedicated dials.
- **Audio Monitoring:** Monitor audio through headphones connected to the headphone jack.

## 5.6. Menu Navigation

Access and configure advanced settings using the menu system.

- Press the MENU button to display the menu on the LCD screen or viewfinder.
- Use the joystick or control dial to navigate through menu options.
- Press the SET/EXEC button to confirm selections.

## 5.7. Playback

1. Switch the camcorder to PLAYBACK mode.
2. Use the control buttons to select and play recorded clips.

# 6. MAINTENANCE

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## 6.1. Cleaning

- Use a soft, dry cloth to clean the camcorder body.
- For the lens and LCD screen, use a specialized lens cleaning cloth and solution.
- Avoid using harsh chemicals or abrasive materials.

## 6.2. Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, compatibility with new accessories (like SD cards), and access to new features.

1. Visit the official Sony support website for the PXW-Z190 model to download the latest firmware.
2. Follow the specific instructions provided with the firmware download.
3. **Critical:** Ensure the camcorder is connected to AC power and the update process is not interrupted. Interruption during a firmware update can render the device inoperable.

# 7. TROUBLESHOOTING

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This section addresses common issues you might encounter.

- **Camcorder does not power on:**
  - Ensure the battery is fully charged and correctly installed.
  - Verify the power adapter is securely connected if using AC power.
- **SD card not recognized or recording issues:**
  - Ensure the SD card is inserted correctly.
  - Check if the SD card is formatted for the camcorder.
  - **Important:** Update the camcorder's firmware to the latest version, especially if using newer, high-capacity SD cards (refer to Section 6.2).

- **Corrupted video files:**

- **Warning:** Never remove an SD card while the camcorder's recording indicator light is red or flashing. Always ensure recording has fully stopped and the light is off before removing media.

- **Poor image quality:**

- Check lens cleanliness.
- Verify focus settings (auto/manual).
- Adjust exposure settings (Iris, Gain, Shutter, ND filter) for ambient light conditions.

For issues not covered here, please refer to the comprehensive online support resources or contact Sony customer support.

## 8. SPECIFICATIONS

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Key technical specifications for the Sony PXW-Z190 camcorder:

<b>Sensor Type</b>	3-CMOS 1/3-type Sensor
<b>Video Capture Resolution</b>	4K (3840 x 2160)
<b>Recording Format</b>	XAVC Long GOP (4K 60P)
<b>Lens</b>	25x Optical Zoom Sony G Lens
<b>Maximum Focal Length</b>	720 Millimeters
<b>Maximum Aperture</b>	f/1.8
<b>Image Stabilization</b>	Hybrid
<b>Viewfinder Type</b>	Electronic Viewfinder
<b>Screen Size</b>	3.5 Inches
<b>Flash Memory Type</b>	SD
<b>Connectivity Technology</b>	HDMI, USB
<b>Item Weight</b>	6.18 pounds
<b>Product Dimensions</b>	16.5 x 7.5 x 8 inches

## 9. WARRANTY AND SUPPORT

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Your Sony PXW-Z190 camcorder is covered by a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions. For technical support, service, or additional information, please visit the official Sony support website or contact their customer service department.