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Z CAM Z CAM E2-F8

Z CAM E2-F8 Professional Full-Frame 8K Cinema Camera

User Manual

1. INTRODUCTION

The Z CAM E2-F8 is a professional-grade full-frame 8K cinema camera designed for high-definition video production. It features a full-frame sensor, 10-bit 4:2:2 color support, and 14 stops of dynamic range. This camera is capable of recording up to 8K resolution at 30 frames per second, with data rates up to 300 Mb/s to CFast 2.0 media. It supports various recording formats including ZRAW, MOV, and MP4, utilizing H.265 for 10-bit and H.264 for 8-bit recording. The E2-F8 offers versatile connectivity and control options for professional videographers.



Figure 1.1: Front view of the Z CAM E2-F8 camera, showcasing its compact design and PL mount.

2. SAFETY INFORMATION

- **Power Supply:** Use only the specified power adapter and cables. Incorrect power sources can damage the device or cause fire.
- **Operating Environment:** Avoid exposing the camera to extreme temperatures, humidity, dust, or direct sunlight. Operate within the recommended temperature range.
- **Handling:** Handle the camera with care. Do not drop or subject it to strong impacts. Avoid touching the sensor directly.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Disassembly:** Do not attempt to disassemble or modify the camera. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Z CAM E2-F8 Camera Body
- PL Mount Cap

- Power Adapter
- Quick Start Guide
- Warranty Card

4. SETUP

4.1 Attaching the Lens

1. Remove the PL mount cap from the camera body.
2. Align the red dot on the lens with the red dot on the camera's PL mount.
3. Insert the lens into the mount and rotate it clockwise until it clicks into place, securing the lens.



Figure 4.1: Close-up view of the Z CAM E2-F8's PL mount, showing the lock/unlock mechanism and sensor.

4.2 Inserting CFast 2.0 Media

1. Locate the CFast 2.0 slot on the side of the camera.
2. Insert the CFast 2.0 card with the label facing the correct direction until it clicks into place.
3. To eject, press the card gently inward until it springs out.



Figure 4.2: Side view of the Z CAM E2-F8, highlighting the CFast 2.0 media slot and programmable function buttons (F1-F4).

4.3 Powering On the Camera

1. Connect the power adapter to the camera's DC input port.
2. Connect the power adapter to a suitable power outlet.
3. Press and hold the power button (usually red) until the camera powers on and the display illuminates.



Figure 4.3: Top-rear view of the Z CAM E2-F8, showing the small display screen and various control buttons for menu navigation and settings.

5. OPERATING THE CAMERA

5.1 Basic Recording

- **Start/Stop Recording:** Press the dedicated record button (often red) to start and stop recording.
- **Monitoring:** Connect an external monitor via the HDMI 2.0 port for real-time video output (up to 4K60, 10-bit 4:2:2).

5.2 Menu Navigation and Settings

Use the navigation buttons (MENU, UP, DOWN, LEFT, RIGHT, OK) located on the camera body to access and adjust settings on the integrated display or an external monitor.

- **Resolution and Frame Rate:** Navigate to the 'Video' settings to select resolutions up to 8K (8192x3456 DCI 2.4:1 or 7680x4320 UHD) and frame rates up to 30fps.
- **Dynamic Range and ISO:** Adjust dynamic range settings and utilize the dual native ISO (400/1250) for optimal low-light performance.
- **Recording Formats:** Select desired recording formats (ZRAW, MOV, MP4) and compression (H.265 for 10-bit, H.264 for 8-bit).
- **Audio Settings:** Configure audio input (3.5mm stereo jack or 5-pin LEMO for XLR) and format (24-bit 48 kHz AAC or PCM for MOV).

5.3 Connectivity

- **Gigabit Ethernet:** Connect an Ethernet cable for live streaming or remote control.
- **Wi-Fi:** Use the built-in Wi-Fi to connect to the Z Camera iOS app for remote control and monitoring.
- **USB-C:** For data transfer and firmware updates.



Figure 5.1: Rear view of the Z CAM E2-F8, displaying the HDMI, Ethernet, USB-C, and audio ports.



Figure 5.2: Another side view of the Z CAM E2-F8, showing additional mounting points and various input/output ports for accessories and connectivity.

6. MAINTENANCE

- **Cleaning the Camera Body:** Use a soft, lint-free cloth to wipe the camera body. For stubborn dirt, slightly dampen the cloth with water. Do not use harsh chemicals.
- **Cleaning the Sensor:** Sensor cleaning should only be performed by experienced users or professional service centers. Improper cleaning can cause permanent damage.
- **Firmware Updates:** Regularly check the Z CAM official website for the latest firmware updates to ensure optimal performance and access to new features. Follow the provided instructions carefully for firmware installation.
- **Storage:** When not in use, store the camera in a dry, cool place, away from direct sunlight and extreme temperatures. Use a desiccant pack if storing in humid environments.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Camera does not power on.	No power, faulty power adapter, or battery (if applicable) is drained.	Ensure power adapter is securely connected and outlet is functional. If using a battery, ensure it is charged.
Recording stops unexpectedly.	CFast card full, card speed too slow, or overheating.	Check available space on CFast card. Use a high-speed CFast 2.0 card. Allow camera to cool down if it feels hot.
No video output via HDMI.	Incorrect cable, monitor settings, or camera output settings.	Verify HDMI cable connection. Check monitor input source. Ensure camera's HDMI output settings match monitor capabilities.
Wi-Fi connection issues.	Incorrect Wi-Fi settings, interference, or app issues.	Restart camera and mobile device. Reconfigure Wi-Fi settings on camera. Ensure Z Camera iOS app is updated.

8. SPECIFICATIONS

Feature	Detail
Model Number	Z CAM E2-F8
Sensor Type	Full-Frame CMOS (35.97 x 23.98 mm)
Effective Pixels	61M
Dynamic Range	14 Stops
Native ISO	400/1250
Max Resolution	8192x3456 (DCI 8K 2.4:1) @ 30fps, 7680x4320 (8K UHD) @ 30fps
Recording Media	CFast 2.0
Max Data Rate	300 Mb/s
Video Formats	ZRAW, MOV, MP4 (H.265 10-bit, H.264 8-bit)
Audio Format	24-bit 48 kHz (AAC, PCM for MOV)
Video Output	HDMI 2.0 (4K60, 10-bit 4:2:2)
Connectivity	Gigabit Ethernet, Wi-Fi, USB-C, 3.5mm Stereo Jack, 5-pin LEMO
Dimensions	10.7 x 8.9 x 5.2 inches
Weight	4.85 pounds

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Z CAM E2-F8 Professional Full-Frame 8K Cinema Camera typically comes with a manufacturer's limited warranty covering defects in materials and workmanship for a specified period from the date of purchase. Please refer to the warranty card included in your product package for specific terms, conditions, and duration. Keep your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Z CAM customer support through their official website. You may need to provide your product's serial number and proof of purchase.

Online Resources: Visit the official Z CAM website for:

- Latest firmware updates
- Detailed product documentation
- FAQs and knowledge base
- Contact information for support