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Nikon 2006

Nikon RED Z Cinema ZR Camera Instruction Manual

Model: ZR (Body only) | UPC: 018208020065

1. Introduction

The Nikon RED Z Cinema ZR Camera is a compact, full-frame 6K cinema camera co-developed by Nikon and RED. It is designed to deliver professional cinematic quality, featuring REDCODE RAW (R3D NE) footage capture and industry-leading 32-bit float audio. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your camera.

Key Features:

- Renowned RED color science combined with trusted Nikon engineering.
- 6K full-frame sensor with 15+ stops of dynamic range and Dual Base ISO.
- Extra-large 4-inch DCI-P3 touchscreen monitor that swivels.
- Industry-leading 32-bit float audio recording with support for external microphones.
- Captures REDCODE RAW (R3D NE) footage, unlocking the same color space and Log curve as RED cameras.
- World's widest, shallowest, most adaptable full-frame lens mount.
- Weighs just 1.18 lbs and integrates seamlessly with rigs, cages, and control grips.



Image 1.1: The Nikon RED Z Cinema ZR Camera, highlighting its cinematic capabilities.



Image 1.2: Front view of the Nikon RED Z Cinema ZR Camera body.

2. Setup

2.1 Attaching a Lens

The ZR camera features the Nikon Z mount, offering broad compatibility with Z-mount lenses and F-mount lenses via an adapter. To attach a lens:

1. Remove the body cap from the camera and the rear cap from the lens.
2. Align the mounting mark on the lens with the mounting mark on the camera body.
3. Rotate the lens counter-clockwise until it clicks into place.

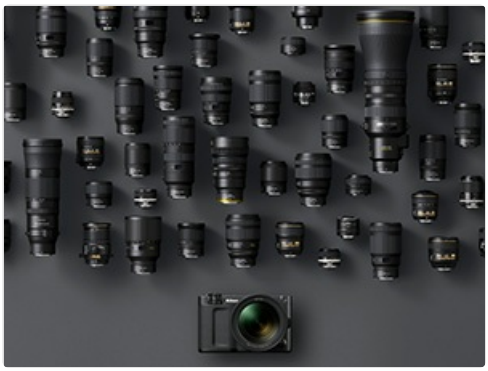


Image 2.1: Close-up of the Nikon Z mount on the camera body.

2.2 Powering On and Initial Configuration

Insert a charged battery into the battery compartment. The camera uses CFexpress Type B memory cards. Insert the card into one of the two available slots. Power on the camera using the power switch. Follow the on-screen prompts for initial setup, including language, date, and time settings.

2.3 Attaching Accessories

The camera supports various accessories, including external microphones via the digital accessory shoe, and can be integrated into rigs and cages for enhanced stability and functionality.



Image 2.2: The digital accessory shoe for attaching external devices.



Image 2.3: The Nikon ZR camera integrated into a SmallRig cinema rig.

3. Operating Instructions

3.1 Using the Swiveling Touchscreen Monitor

The 4-inch DCI-P3 touchscreen monitor provides a clear view of your footage and access to camera settings. It can be swiveled for flexible viewing angles, including self-recording. Tap the screen to navigate menus and adjust parameters.



Image 3.1: The swiveling DCI-P3 monitor in use, showing live footage.

3.2 Recording Video

To begin recording, press the dedicated REC button. The camera supports 6K video recording and REDCODE RAW (R3D NE) format, offering extensive post-production flexibility. Adjust settings such as resolution, frame rate, and compression via the on-screen menu.



Image 3.2: The camera's capability to capture REDCODE RAW footage.

3.3 Audio Recording

The ZR camera features 32-bit float audio recording, providing a wide dynamic range and reducing the risk of clipping. It includes customizable built-in microphones and supports external microphones via the digital accessory shoe or dedicated audio inputs.

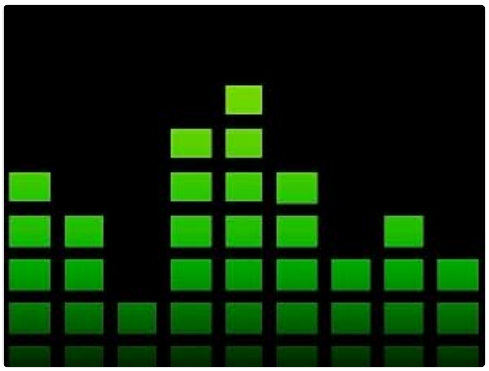


Image 3.3: Visual representation of 32-bit float audio capability.



Image 3.4: Location of the customizable built-in microphones.

3.4 Advanced Settings

- **Dual Base ISO:** Optimize image quality in various lighting conditions by selecting the appropriate base ISO setting.
- **LUT Support:** Apply Look Up Tables (LUTs) in-camera for real-time monitoring with desired color grades.
- **Shutter Angle:** Adjust the shutter angle for precise motion blur control, a common practice in cinematic production.

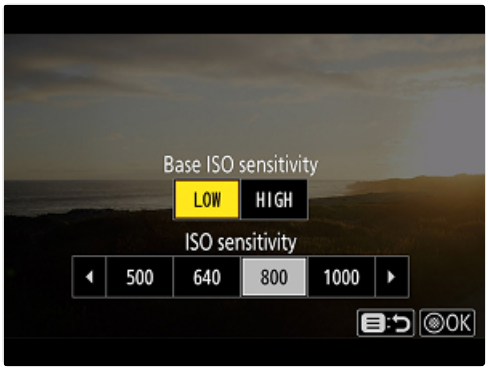


Image 3.5: Menu interface for adjusting Dual Base ISO settings.



Image 3.6: In-camera LUT support options for real-time color grading.

3.5 Workflow Integration

The camera supports streamlined workflows, including Frame.io cloud integration for collaborative post-production.



Image 3.7: Demonstrating Frame.io cloud integration for efficient workflow.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Nikon RED Z Cinema ZR Camera.

- **Cleaning the Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, slightly dampen the cloth with water or a specialized camera cleaning solution. Avoid harsh chemicals.

- **Cleaning the Sensor:** The camera features a full-frame sensor. Sensor cleaning should be performed with extreme care using specialized tools (e.g., sensor cleaning swabs and solution) or by a professional service center. Refer to the Nikon support website for detailed instructions or to locate a service center.
- **Lens Care:** Keep lens elements clean using a lens brush, air blower, and lens cleaning solution with a microfiber cloth. Avoid touching the glass directly.
- **Battery Care:** Store batteries in a cool, dry place. Avoid fully discharging or overcharging batteries frequently to prolong their lifespan.
- **Storage:** When not in use, store the camera in a dry, dust-free environment, ideally in a camera bag or case with desiccant packs to prevent moisture buildup.

5. Troubleshooting

This section addresses common issues you might encounter with your camera. For more complex problems, please contact Nikon support.

5.1 Camera Does Not Power On

- Ensure the battery is fully charged and correctly inserted.
- Try using a different, fully charged battery if available.
- Check the power switch position.

5.2 Recording Issues

- Verify that a compatible CFexpress Type B card is inserted and has sufficient free space.
- Check the selected video resolution and frame rate; some settings require higher card write speeds.
- Ensure the camera is not overheating. Allow it to cool down if a temperature warning appears.

5.3 Image Quality Problems

- Clean the lens and sensor if dust or smudges are visible.
- Check exposure settings (ISO, aperture, shutter speed) and white balance.
- Ensure the lens is properly focused.

6. Specifications

Feature	Specification
Brand	Nikon
Model Name	ZR Body
Model Number	2006
Photo Sensor Resolution	24.5 MP
Photo Sensor Size	Full Frame (35mm)
Video Resolution	6K
Video Capture Format	H.264/H.265/ProRes RAW/REDCODE RAW

Dynamic Range	15+ stops
Audio Recording	32-Bit Float
Screen Size	4 inches (DCI-P3 Touchscreen)
Compatible Mountings	Nikon Z
Image Stabilization	Digital
Storage Media	CFexpress Type B (2 slots)
Connectivity	Bluetooth, Wi-Fi, USB Type C, HDMI
Item Weight	1.2 pounds

7. Warranty and Support

7.1 Product Warranty

The Nikon RED Z Cinema ZR Camera comes with a**1 Year Limited Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

7.2 Extended Protection Plans

Optional protection plans are available for extended coverage:

- **3-Year Protection Plan:** Provides coverage for 36 months.
- **Complete Protect:** A monthly renewal policy offering comprehensive protection for eligible purchases.

For details on coverage and terms, please refer to the specific plan documentation provided at the time of purchase.

7.3 Customer Support

For technical assistance, service, or further inquiries, please visit the official Nikon support website or contact their customer service department. You can find contact information and FAQs on the Nikon USA website.

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