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Model: D800E

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Nikon D800E 36.3 MP FX-Format Digital SLR Camera. Please read this manual thoroughly before using the camera to ensure proper operation and to maximize its performance.

The Nikon D800E is a specialized digital SLR camera designed for exceptional image definition. It features a 36.3-megapixel FX-format CMOS sensor and an optical low-pass filter (OLPF) without anti-aliasing properties. This design choice prioritizes maximum sharpness and resolution, making it particularly suitable for studio and still-life photography professionals who can manage potential moiré and false color artifacts through controlled shooting conditions and post-processing.

Aside from the OLPF characteristic, the D800E shares identical performance aspects with the standard D800 model, including focus speed, exposure metering, shooting speed, movie recording capabilities, accessory compatibility, and control layout.



Figure 1.1: Front view of the Nikon D800E Digital SLR Camera with a lens.

2. SETUP

2.1. Attaching a Lens

To attach a lens, align the mounting mark on the lens with the lens mount index on the camera body. Rotate the lens clockwise until it clicks into place. Ensure the lens is securely fastened before use. The D800E is compatible with Nikon F (FX) mount lenses.

2.2. Inserting the Battery

The D800E uses a Lithium-Ion battery. Open the battery chamber cover located at the bottom of the camera. Insert the battery with the contacts facing the correct direction, then close the cover until it latches securely. Ensure the battery is fully charged before first use.

2.3. Inserting Memory Cards

The camera supports both CompactFlash (Type I) and SD/SDHC/SDXC UHS-I compliant memory cards. Open the memory card slot cover. Insert the cards into their respective slots until they click into place. Close the cover securely. It is recommended to format new memory cards in the camera before use.



Figure 2.1: Angled view of the Nikon D800E, illustrating camera body and lens attachment.

3. OPERATING THE CAMERA

3.1. Powering On and Basic Settings

Turn the camera on using the power switch. The 3.2-inch LCD monitor will display shooting information. Adjust basic settings such as date, time, and language via the camera's menu system.

3.2. Photography Modes

The D800E offers various exposure control modes:

- **Programmed Auto (P):** Camera sets shutter speed and aperture for optimal exposure.
- **Shutter-Priority Auto (S):** User selects shutter speed, camera sets aperture.
- **Aperture-Priority Auto (A):** User selects aperture, camera sets shutter speed.
- **Manual (M):** User controls both shutter speed and aperture.

Additional shooting modes include High Dynamic Range (HDR), Landscape, and Portrait, accessible via the Picture Control button.

3.3. Focusing

The camera features a precise 51-point autofocus (AF) system with 15 cross-type sensors. AF modes include Continuous-Servo AF (AF-C), Single-Servo AF (AF-S), and Manual Focus (M). Auto Focus Technology options include Face Detection, Live View, Multi-area, Phase Detection, Selective single-point, and Tracking.

3.4. ISO Sensitivity

The standard ISO range is 100-6400, expandable up to 25,600 for shooting in various lighting conditions.

3.5. White Balance and Metering

Automatic white balance is available. Metering options include Multi-segment, Center-weighted, Average, and Spot metering.

3.6. Video Recording

The D800E supports Full HD 1080p video recording at 30/25/24 frames per second, or 720p at 60/50 frames per second in AVC-HD format. Users can control aperture, ISO, AF, and shutter speed in manual mode. Uncompressed video output is available via the HDMI terminal to an external recording device. Audio input is supported via a microphone, with adjustable sensitivity.

3.7. Reviewing Images and Video

Images and videos can be reviewed on the 3.2-inch, 921,000-dot LCD monitor. The monitor features anti-glare coating and auto brightness control for clear viewing. Images can be enlarged up to 46x for detailed focus confirmation.



Figure 3.1: Rear view of the Nikon D800E, highlighting the LCD and control layout.

4. MAINTENANCE

4.1. Cleaning the Camera

Regularly clean the camera body with a soft, dry cloth. For the lens and sensor, use specialized cleaning tools and solutions designed for optical equipment. Avoid touching the sensor directly. If dust or smudges persist on the sensor, consult a professional service center.

4.2. Battery Care

Store batteries in a cool, dry place. Avoid fully discharging the battery frequently. If the camera will not be used for an extended period, remove the battery.

4.3. Storage

When not in use, store the camera in a dry, dust-free environment, preferably in a camera bag or case. Protect it from extreme temperatures and humidity.

5. TROUBLESHOOTING

- **Camera does not power on:** Ensure the battery is fully charged and correctly inserted. Check if the battery contacts are clean.
- **Images are blurry:** Verify that the lens is properly attached and clean. Check focus settings and ensure sufficient light for autofocus. Consider using a tripod in low light.
- **Moiré or false color in images:** The D800E's design, lacking an anti-aliasing filter, can increase the possibility of moiré and false color, especially with repetitive fine patterns. Adjust shooting distance, angle, or aperture. Post-processing software can also help mitigate these effects.
- **Memory card error:** Ensure the memory card is correctly inserted and not full. Try formatting the card (this will erase all data). If the issue persists, try a different memory card.
- **Flash does not fire:** Check flash mode settings. Ensure the flash is not disabled or in a mode that prevents firing (e.g., silent mode).

6. SPECIFICATIONS

Model Name	Nikon D800E
Sensor Type	FX-Format (35.9 x 24.0mm) CMOS
Effective Pixels	36.3 MP
Image Processor	EXPEED 3
ISO Sensitivity	100-6400 (expandable to 25,600)
Autofocus System	51-point AF system (15 cross-type)
Shutter Speed	1/8000 to 30 seconds
Continuous Shooting	Up to 4 frames per second (fps)
Video Recording	Full HD 1080p (30/25/24p), 720p (60/50p)
LCD Monitor	3.2-inch, 921,000-dot
Viewfinder	Optical, 100% coverage
Storage Media	1x CompactFlash (CF), 1x SD/SDHC/SDXC
Connectivity	USB 3.0, HDMI output, Microphone input
Weight	Approx. 2.2 Pounds (body only)
Special Feature	No Optical Low Pass Filter (OLPF)

7. WARRANTY AND SUPPORT

7.1. Limited Warranty

The Nikon D800E comes with a 1-Year Limited Warranty. Please refer to the warranty card included with your product for specific terms and conditions. Keep your proof of purchase for warranty claims.

7.2. Customer Support

For further assistance, technical support, or service, please visit the official Nikon support website or contact their customer service department. Contact information can typically be found on the Nikon website or in the documentation provided with your camera.