

Nikon 1542

Nikon D810 FX-format Digital SLR Camera Body - User Manual

Model: 1542

1. INTRODUCTION

The Nikon D810 FX-format Digital SLR Camera Body is engineered to deliver extreme resolution, jaw-dropping image quality, and a huge dynamic range for both still photography and Full HD 1080p video applications. Featuring a newly designed 36.3-megapixel FX-format full-frame image sensor without an optical low-pass filter, paired with the powerful EXPEED 4 image processing engine, the D810 ensures staggering detail retention, noise-free images from ISO 64 to ISO 12,800, fast frame rates, cinematic video capabilities, and in-camera editing features. This manual provides essential information to help you get started and master your D810.

2. SETUP

2.1. Unpacking and Initial Inspection

Carefully unpack all items from the box. Ensure all components are present and undamaged. The package should include:

- D810 FX-format Digital SLR Camera Body
- EN-EL15 Rechargeable Li-ion Battery
- MH-25a Battery Charger
- USB Cable Clip
- HDMI Cable Clip
- UC-E22 USB Cable
- AN-DC12 Strap
- BF-1B Body Cap
- BS-1 Accessory Shoe Cap
- DK-17 Eyepiece
- BM-12 LCD Monitor Cover

- ViewNX 2 CD-ROM

2.2. Battery Installation and Charging

Insert the EN-EL15 rechargeable Li-ion battery into the camera's battery chamber. To charge the battery, use the supplied MH-25a Battery Charger. Connect the charger to a power outlet and insert the battery. The charging indicator will show the charging status. Ensure the battery is fully charged before first use.

2.3. Memory Card Insertion

The D810 supports SD/SDHC/SDXC and CompactFlash (UDMA compliant) memory cards. Insert the memory cards into their respective slots until they click into place. Ensure the cards are formatted in the camera before use to prevent data loss or corruption.

2.4. Attaching a Lens

The D810 uses the Nikon F (FX) mount. Align the mounting mark on the lens with the mounting mark on the camera body, then rotate the lens counter-clockwise until it clicks into place. Always ensure the camera is off when attaching or detaching a lens to prevent damage to the sensor.



Figure 2.4.1: Front view of the Nikon D810 camera body, showing the lens mount and various controls.

3. OPERATING THE CAMERA

3.1. Basic Shooting Modes

The D810 offers a variety of shooting modes to suit different photographic needs:

- **Programmed Auto (P):** The camera automatically sets shutter speed and aperture for optimal exposure.
- **Shutter-Priority Auto (S):** You set the shutter speed, and the camera selects the aperture for correct exposure. Ideal for controlling motion blur.
- **Aperture-Priority Auto (A):** You set the aperture, and the camera selects the shutter speed. Ideal for controlling depth of field.
- **Manual (M):** You control both shutter speed and aperture. Provides full creative control.

3.2. Autofocus System

The D810 features a sophisticated 51-point AF system, including 15 cross-type sensors, ensuring precise and rapid focusing. The camera supports various autofocus technologies such as Phase Detection, Contrast Detection, and advanced tracking modes for moving subjects. The new Group Area AF mode enhances subject acquisition and tracking, especially useful for fast-paced action.



Figure 3.2.1: Rear view of the Nikon D810, highlighting the LCD monitor and control buttons for navigation and settings.

3.3. Exposure Control

The D810 offers multiple metering methods to achieve accurate exposure:

- **Matrix Metering:** Evaluates the entire scene for balanced exposure.
- **Center-weighted Metering:** Prioritizes the central area of the frame.
- **Spot Metering:** Measures a small area around the active focus point.
- **Highlight-weighted Metering:** Prevents highlight clipping, ideal for scenes with bright light sources.

3.4. Image Quality and Resolution

Capture stunning detail with the D810's 36.3 MP effective still resolution. Images can be saved in various formats including RAW (NEF), JPEG (Exif 2.3, DCF 2.0), and TIFF (RGB). A new 12-bit uncompressed RAW size S option provides smaller file sizes while maintaining high quality.

3.5. Video Recording

Record cinematic Full HD 1080p video at various frame rates (60/50/30/25/24p). The D810 supports uncompressed video output to an external device via HDMI, or compressed recording to internal CF/SD cards, or both simultaneously. Features like ISO Auto Adjust and power iris control provide flexibility for dynamic lighting conditions.

Video 3.5.1: Nikon Photo Tips: Filling the Frame. This video provides useful tips on composition, emphasizing the importance of filling the frame with your subject for impactful photography.

3.6. Viewfinder and Display

The D810 features an Eye-level Pentaprism Single-Lens Reflex viewfinder for clear and accurate composition. The large 3.2-inch 1,229k-dot LCD display with RGBW alignment provides excellent visibility for reviewing images and navigating menus. Zebra striping is available for monitoring highlights during video capture.



Figure 3.6.1: Top view of the Nikon D810, showing the mode dial, top LCD panel, and shutter button.

4. MAINTENANCE

To ensure the longevity and optimal performance of your Nikon D810, regular maintenance is recommended:

- **Cleaning the Camera Body:** Use a soft, lint-free cloth to wipe the camera body. For stubborn dirt, slightly dampen the cloth with water or a mild cleaning solution.
- **Cleaning the Lens:** Use a lens brush to remove dust, then gently wipe with a microfiber lens cloth. For smudges, use a specialized lens cleaning solution.
- **Sensor Cleaning:** If dust spots appear on your images, the sensor may need cleaning. This is a delicate procedure; it is recommended to have it performed by a qualified Nikon service center.

- **Storage:** When not in use for extended periods, store the camera in a dry, cool place, ideally with a desiccant to prevent mold and mildew. Remove the battery before storage.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your D810. For more detailed troubleshooting, refer to the official user guide.

5.1. Camera Not Turning On

- Ensure the battery is fully charged and correctly inserted.
- Check if the battery contacts are clean.
- Try using a different, fully charged battery if available.

5.2. Images Are Blurry

- Check your focus mode and ensure the camera is focusing correctly on your subject.
- Verify that your shutter speed is fast enough to prevent camera shake, especially in low light or with long lenses.
- Ensure the lens is clean and free from smudges.
- If using autofocus, ensure sufficient light for the AF system to operate effectively.

5.3. Memory Card Error

- Ensure the memory card is fully inserted.
- Try formatting the card in the camera (note: this will erase all data).
- Test with a different, compatible memory card.
- Ensure the card is not write-protected.

6. SPECIFICATIONS

Feature	Specification
Brand	Nikon
Model Name	Nikon D810
Model Number	1542
Effective Still Resolution	36.3 MP
Photo Sensor Size	Full Frame (35mm)
Photo Sensor Technology	CMOS
Compatible Mountings	Nikon F (FX)
Image Stabilization	No
ISO Range	64-12,800 (Expanded: 32-51,200)
Autofocus Points	51

Feature	Specification
Maximum Shutter Speed	1/8000 seconds
Minimum Shutter Speed	30 seconds
Continuous Shooting Speed	5 fps
Video Resolution	FHD 1080p
Screen Size	3.2 Inches
Flash Memory Type	SD/SDHC/SDXC, CompactFlash (UDMA compliant)
Connectivity Technology	HDMI, NTSC, USB 3.0
Item Weight	2.16 Pounds
Battery Average Life	1200 Photos

7. WARRANTY

The Nikon D810 comes with a 1-year warranty covering parts and labor. Please note that this warranty does not apply to the batteries and software drivers that accompany this product. For detailed warranty terms and conditions, please refer to the official warranty documentation provided with your purchase.

8. SUPPORT

For further assistance, detailed instructions, or technical support, please utilize the following resources:

- **Official User Manual (PDF):** [Download PDF](#)
- **Nikon Store:** Visit the official [Nikon Store on Amazon](#) for product information and accessories.
- **Nikon Customer Service:** Refer to your product packaging or the official Nikon website for contact information regarding customer service and repair centers.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question