

Manuals.plus /

› Nikon /

› Nikon D610 Digital SLR Camera User Manual

Nikon 1540

Nikon D610 Digital SLR Camera User Manual

Model: 1540

Introduction

The Nikon D610 Digital SLR Camera offers the power of a 24.3 MP Nikon FX-format CMOS sensor within a compact and streamlined HD-SLR body. It is designed for creating brilliant full-frame images and 1080p videos. This camera features Nikon's advanced 39-point AF system with Scene Recognition, ensuring clear and crisp details for both static and moving subjects. Additional capabilities include 6 frames per second (FPS) burst shooting, a 3.2-inch LCD monitor, and an ISO range expandable up to 25,600 for diverse lighting conditions. The D610 is optimized for full-frame shooting, providing exceptional performance and value for passionate photographers.

Key Features

- **24.3MP Full-Frame CMOS Sensor:** Delivers high-resolution images with excellent detail and low noise.
- **39-Point AF System:** Features 9 cross-type sensors for superior accuracy, even in challenging light.
- **Wide ISO Range:** ISO 100-6400, expandable to 50-25,600 for versatile shooting in various lighting conditions.
- **3.2-inch LCD Monitor:** High-resolution 921,000-dot display for clear viewing and menu navigation.
- **Full HD Video Recording:** Captures 1080p video at 30p, 25p, or 24p, and 720p at 60p, 50p, or 30p with manual control options.
- **6 Frames Per Second (FPS) Continuous Shooting:** Ideal for capturing fast-moving subjects.
- **100% Viewfinder Coverage:** Provides an accurate view of the scene.
- **2,016-Pixel RGB TTL Metering Sensor:** Ensures consistently accurate exposures and white balance.
- **Dual SD Card Slots:** Offers flexible storage options, including backup or overflow.
- **Built-in Flash with Commander Mode:** Allows for creative lighting control with multiple flash units.

Setup

Before using your Nikon D610 camera, ensure proper setup by following these steps:

1. **Charge and Insert Battery:** Fully charge the supplied EN-EL15 Rechargeable Li-ion Battery using the MH-25 Quick Charger. Once charged, insert the battery into the camera's battery compartment, ensuring it clicks into place.
2. **Insert Memory Card:** The D610 supports two SD memory cards. Open the memory card slot cover and insert the SD cards into the designated slots until they click. Ensure the cards are oriented correctly.
3. **Attach Lens (if applicable):** If you have a separate lens, align the mounting marks on the lens and camera body, then rotate the lens until it locks into place.
4. **Initial Settings:** Turn on the camera. You will be prompted to set the date, time, and time zone. Follow the on-screen instructions to configure these settings.



Figure 1: Front view of the Nikon D610 camera body with the lens cap attached. This image illustrates the camera's robust build and the F-mount for interchangeable lenses.

Operating the Camera

Photography Basics

The D610 offers various shooting modes and advanced features to capture high-quality photographs. Utilize the

mode dial to select your desired shooting mode (e.g., Program Auto, Shutter-Priority, Aperture-Priority, Manual, or Scene modes). The 39-point autofocus system provides precise focusing, with options to select single-point, dynamic-area, 3D-tracking, or auto-area AF. The 2,016-pixel RGB sensor ensures accurate exposure metering across different lighting conditions.

Video Recording (D-Movie)

To record videos, switch the Live View selector to the movie camera icon. You can record Full HD 1080p videos at various frame rates (30p, 25p, 24p) or 720p videos at higher frame rates (60p, 50p, 30p) for smoother playback or slow-motion effects. The camera allows for manual control over ISO, shutter speed, and aperture during video recording. It also features dedicated inputs for an optional stereo microphone and headphones for professional audio monitoring.

Wireless Connectivity

The Nikon D610 supports wireless connectivity through the optional WU-1b Wireless Mobile Adapter. This adapter allows you to wirelessly transfer photos to your smartphone or tablet and even remotely control the camera using Nikon's free Wireless Mobile Adapter Utility application. This feature is ideal for sharing images instantly or for remote shooting scenarios.

Using the Built-in Flash

The D610 includes a built-in pop-up flash that can be used for fill-flash in bright conditions or as the main light source in low light. It integrates with Nikon's i-TTL system for accurate flash exposure. Furthermore, the built-in flash can act as a Commander, allowing it to wirelessly control up to two groups of remote Nikon Speedlights across three channels, providing advanced lighting possibilities.



Figure 2: The Nikon D610 camera body displayed alongside its standard accessories, including the battery, charger, USB cable, strap, and various caps.

Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your Nikon D610. Always handle the camera with care and avoid exposing it to extreme temperatures, humidity, or dust.

- **Cleaning the Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, a slightly dampened cloth can be used, followed by a dry cloth. Avoid using organic solvents.
- **Cleaning the Lens:** Use a lens brush to remove dust, then gently wipe with a lens cleaning cloth and lens cleaning fluid. Never use abrasive materials.
- **Sensor Cleaning:** While the D610 has an automatic sensor cleaning function, if spots appear on images, manual cleaning may be required. This should be done with extreme caution using specialized sensor cleaning kits, or preferably by a professional service center.
- **Storage:** When not in use for extended periods, remove the battery and store the camera in a cool, dry place, ideally with a desiccant to prevent mold and mildew.

Troubleshooting

This section addresses common issues you might encounter with your Nikon D610. For more detailed troubleshooting, refer to the comprehensive official user manual.

Problem	Possible Cause / Solution
Camera does not turn on.	Battery is depleted or incorrectly inserted. Ensure battery is charged and properly seated.
Images are blurry.	Incorrect focus, camera shake, or dirty lens. Check focus mode, use a faster shutter speed or tripod, clean the lens.
Memory card error.	Card is full, corrupted, or incompatible. Try formatting the card (this will erase all data) or use a different card.
Flash does not fire.	Flash mode is off, or subject is too far. Check flash settings; ensure subject is within flash range.
Spots appear on images.	Dust on the image sensor. Perform sensor cleaning via the camera menu or consult a service center.

Specifications

Feature	Detail
Product Dimensions	5.55 x 3.23 x 4.45 inches
Item Weight	1.87 pounds
Item Model Number	1540
Batteries	1 Lithium Ion batteries required (included)
Manufacturer	Nikon
Compatible Mountings	Nikon F
Aspect Ratio	16:9, 3:2
Photo Sensor Technology	CMOS
Supported File Format	NEF (RAW): 12 or 14 bit, lossless compressed, compressed or uncompressed, JPEG
Image Stabilization	No
Optical Zoom	3.5 x
Maximum Aperture	1.8 Millimeters
Expanded ISO Minimum	50
Metering Description	Multi, Center-weighted, Average, Spot

Supplied Accessories

The following accessories are typically included with your Nikon D610 camera body:

- EN-EL15 Rechargeable Li-ion Battery
- MH-25 Quick Charger
- UC-E15 USB Cable
- BM-14 LCD Monitor Cover
- DK-21 Rubber Eyecup
- AN-DC10 Strap
- DK-5 Eyepiece Cap
- BF-1B Body Cap
- BS-1 Accessory Shoe Cap
- NikonView NX2 CD ROM (Software)

Warranty and Support

Nikon products are manufactured to the highest standards and come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Nikon website. For comprehensive operational details, advanced settings, and in-depth troubleshooting, please consult the official Nikon D610 User Manual (PDF): [Download User Manual](#)

For further assistance, product registration, or to explore other Nikon products, visit the official Nikon support

website or the Nikon Store:

Visit the Nikon Store on Amazon