

Nikon D600

Nikon D600 Digital SLR Camera User Manual

Brand: Nikon | Model: D600

1. INTRODUCTION

The Nikon D600 is a high-performance FX-format digital single-lens reflex (SLR) camera designed for passionate photographers. It features a 24.3-megapixel CMOS sensor, delivering exceptional image quality with lifelike sharpness and rich detail. Powered by the EXPEED 3 image processing engine, the D600 offers remarkable speed and accuracy, supporting continuous shooting at up to 5.5 frames per second at full resolution. Its advanced low-light performance allows for crystal-clear images across a wide ISO range from 100 to 6400, expandable to 50 and up to 25600 for challenging lighting conditions. This manual provides essential information for setting up, operating, and maintaining your Nikon D600 camera.

2. SETUP

2.1 Unpacking and Initial Inspection

Carefully unpack all items from the box and ensure all components are present. The standard package for the Nikon D600 (Body Only) includes:

- EN-EL15 Rechargeable Li-ion Battery
- MH-25 Quick Charger
- EG-D2 Audio Video Cable
- UC-E15 USB Cable
- BM-14 LCD Monitor Cover
- DK-21 Rubber Eyecup
- AN-DC8 Strap
- DK-5 Eyepiece Cap
- BF-1B Body Cap
- BS-1 Accessory Shoe Cap
- NikonView NX2 CD ROM

Inspect the camera body and accessories for any signs of damage. If any items are missing or damaged, contact your retailer.

2.2 Battery Installation and Charging

Insert the supplied EN-EL15 Rechargeable Li-ion Battery into the battery chamber at the bottom of the camera. Ensure it clicks securely into place. To charge the battery, use the MH-25 Quick Charger. Connect the charger to a power outlet and insert the battery. The charging indicator will show the charging status. A full charge typically takes approximately 2 hours and 35 minutes, providing power for about 900 photos.

2.3 Memory Card Installation

The Nikon D600 features dual SD card slots, supporting SD/SDHC/SDXC memory cards up to 2 TB. Open the memory card slot cover on the side of the camera. Insert the memory cards into the slots with the label facing the correct direction until they click into place. Close the cover securely.

2.4 Attaching a Lens

To attach a lens, first remove the body cap from the camera and the rear lens cap from the lens. Align the mounting mark on the lens with the mounting mark on the camera body. Rotate the lens counter-clockwise until it clicks into place. Ensure the lens is firmly attached before use.



Figure 2.4.1: Front view of the Nikon D600 camera body, showing the lens mount and various controls.

2.5 Initial Settings

Upon first power-on or after a long period without battery, you may be prompted to set the date, time, and language. Follow the on-screen instructions using the multi-selector and OK button to configure these settings for accurate timestamping of your photos and videos.

3. OPERATING THE CAMERA

3.1 Basic Photography Modes

The D600 offers various exposure modes accessible via the mode dial:

- **P (Programmed Auto):** Camera sets both shutter speed and aperture for optimal exposure.
- **S (Shutter-Priority Auto):** You set the shutter speed, and the camera selects the aperture.
- **A (Aperture-Priority Auto):** You set the aperture, and the camera selects the shutter speed.
- **M (Manual):** You control both shutter speed and aperture.
- **Scene Modes:** Pre-set modes for specific scenes (e.g., Portrait, Landscape) to simplify settings.

3.2 Autofocus System

The D600 features a precise 39-point autofocus (AF) system with 9 cross-type sensors, utilizing the Multi-CAM 4800 autofocus sensor module. This system provides wide-area AF coverage and various focus modes including Single-Servo AF (AF-S) for stationary subjects and Continuous-Servo AF (AF-C) for moving subjects. In Live View, responsive contrast-detect AF ensures accurate full-time autofocusing.

3.3 ISO Sensitivity

The camera's standard ISO sensitivity ranges from 100 to 6400, allowing for excellent performance in various lighting conditions. For extreme situations, the ISO can be expanded down to 50 (Lo 1) and up to 25600 (Hi 2).

3.4 Metering

The D600 employs Nikon's intelligent Scene Recognition System with 3D Color Matrix Metering II, using a 2,016-pixel RGB sensor. This system accurately evaluates brightness, contrast, subject distance, and colors to ensure consistently accurate exposures and auto white balance.

3.5 Continuous Shooting

For capturing fast-moving action, the D600 can shoot continuously at approximately 5.5 frames per second (fps) at full resolution.

3.6 Video Recording (D-Movie)

The D600 supports Full HD 1080p video recording with selectable frame rates of 30p, 25p, or 24p, using MPEG-4 AVC/H.264 compression. For ultra-smooth playback of fast-moving subjects or slow-motion footage, 720p HD recording is available at 60p, 50p, or 30p. The camera offers manual exposure control, full-time AF with face-priority and subject tracking, and dedicated inputs for a stereo microphone and headphones for professional audio capture. Uncompressed video can also be recorded via HDMI output.

3.7 Image Playback

Review your photos and videos on the camera's 3.2-inch LCD monitor, which features 921,000 dots for clear and detailed viewing. The display includes automatic brightness adjustment and manual monitor adjustments for optimal visibility.



Figure 3.7.1: Rear view of the Nikon D600 camera body, highlighting the LCD screen and various control buttons for navigation and settings.

3.8 Connectivity

The D600 provides USB and HDMI connectivity for transferring files and connecting to external displays. For wireless capabilities, the optional WU-1b Wireless Mobile Adapter allows you to transfer photos to a smartphone or tablet and remotely control the camera.

4. MAINTENANCE

4.1 Cleaning the Camera

Regular cleaning helps maintain your camera's performance and longevity. Use a soft, lint-free cloth to wipe the camera body. For the LCD screen, use a specialized screen cleaner and cloth. The image sensor may accumulate dust over time; use a blower brush or a professional sensor cleaning kit for careful cleaning. Avoid touching the sensor directly.

4.2 Battery Care

To maximize battery life, store the EN-EL15 battery in a cool, dry place when not in use. Avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to about 50% capacity.

4.3 Storage

When storing the camera for long periods, remove the battery and memory cards. Store the camera in a dry, well-ventilated area, ideally in a camera bag or case, to protect it from dust, moisture, and extreme temperatures.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Nikon D600. For more detailed troubleshooting, refer to the comprehensive user manual PDF.

| Problem | Possible Cause / Solution |
|-------------------------------|--|
| Camera does not power on. | Ensure the battery is fully charged and correctly inserted. Check if the battery contacts are clean. |
| Images are blurry. | Check focus mode and ensure the lens is properly focused. Verify shutter speed is fast enough to prevent camera shake. Clean the lens and sensor if smudges or dust are present. |
| Memory card error. | Ensure the memory card is inserted correctly. Try formatting the card (this will erase all data). Use a different memory card to check if the card is faulty. |
| Dust spots visible on images. | Perform a sensor cleaning procedure (refer to Maintenance section or full manual). Avoid changing lenses in dusty environments. |

6. SPECIFICATIONS

Key technical specifications for the Nikon D600 camera:

| Feature | Detail |
|---------------------------|---|
| Model Name | Nikon D600 |
| Photo Sensor Resolution | 24.3 MP |
| Photo Sensor Size | Full Frame (35mm) |
| Photo Sensor Technology | CMOS |
| ISO Sensitivity | 100-6400 (expandable to 50-25600) |
| Autofocus Points | 39 (9 cross-type) |
| Continuous Shooting Speed | 5.5 fps |
| Video Resolution | FHD 1080p |
| LCD Screen Size | 3.2 Inches |
| LCD Dots Per Screen | 921,000 |
| Memory Slots | 2 Secure Digital (SD) |
| Battery Type | Lithium Ion (EN-EL15) |
| Battery Average Life | Approx. 900 Photos |
| Item Weight | 1.87 Pounds (Body Only) |
| Connectivity | USB, HDMI, Wireless (with optional adapter) |

7. WARRANTY AND SUPPORT

7.1 Warranty Information

New Nikon D600 products typically come with a 1-year manufacturer's warranty. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation included with your camera or visit the official Nikon website.

7.2 Additional Support

For comprehensive details, advanced features, and in-depth troubleshooting, please refer to the official Nikon D600 User Manual in PDF format:

[Download Official User Manual \(PDF\)](#)

You can also visit the [Nikon Store on Amazon](#) for product information and accessories.

