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## Nikon D5100

# Nikon D5100 Digital SLR Camera Instruction Manual

Model: D5100

## INTRODUCTION

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The Nikon D5100 is a 16.2-megapixel DX-format CMOS Digital SLR camera designed for both photography and video enthusiasts. It features a 3-inch Vari-Angle LCD monitor, full HD movie capabilities, and various in-camera special effects modes. Powered by the EXPEED 2 image processing engine, the D5100 delivers high-quality images with excellent dynamic range and performance for everyday shooting.



Front view of the Nikon D5100 Digital SLR Camera body, showcasing its compact design and lens mount.

## SETUP

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### 1. Battery Installation

The Nikon D5100 uses a rechargeable Li-ion battery (EN-EL14). To install the battery:

1. Locate the battery chamber cover on the bottom of the camera.
2. Slide the battery chamber cover latch to open the cover.
3. Insert the EN-EL14 battery into the chamber with the contacts facing the correct direction, as indicated by the diagram inside the chamber.
4. Gently push the battery until it clicks into place.
5. Close the battery chamber cover and slide the latch back to secure it.

### 2. Memory Card Insertion

The camera supports SD/SDHC/SDXC memory cards. To insert a memory card:

1. Open the memory card slot cover on the side of the camera.
2. Insert the memory card into the slot with the label facing the back of the camera, until it clicks into place.

3. Close the memory card slot cover.

### 3. Lens Attachment

The D5100 is compatible with a wide range of AF-S and AF-I NIKKOR lenses. To attach a lens:

1. Remove the body cap from the camera and the rear lens 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.

## OPERATING THE CAMERA

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### 1. Power On/Off

To turn the camera on or off, rotate the power switch located around the shutter-release button.

### 2. Vari-Angle LCD Monitor

The 3-inch, 921,000-dot Vari-Angle LCD monitor can be rotated and tilted to various positions, allowing for flexible shooting angles, including low-angle shots, overhead shots, and self-portraits. This feature is particularly useful for live view shooting and video recording.

### 3. Shooting Modes

The mode dial on the top of the camera allows you to select various shooting modes:

- **Auto Mode:** For simple point-and-shoot operation.
- **Scene Modes:** Optimized settings for specific scenes (e.g., Portrait, Landscape, Child, Sports, Close Up, Night Portrait).
- **Effects Mode:** Apply special effects to photos and videos (e.g., Selective Color, Night Vision, High Key, Low Key, Miniature Effect, Color Sketch).
- **P (Programmed Auto):** Camera sets shutter speed and aperture for optimal exposure.
- **S (Shutter-Priority Auto):** You set shutter speed, camera sets aperture.
- **A (Aperture-Priority Auto):** You set aperture, camera sets shutter speed.
- **M (Manual):** You control both shutter speed and aperture.

### 4. HD Movie Recording

The D5100 can record stunning Full 1080p HD movies with full-time autofocus. To start recording, press the dedicated movie-record button. The camera also supports external stereo microphones for enhanced audio quality.

### 5. Autofocus System

The camera features an 11-point AF system that provides precise focus, even when subjects are off-center. Combined with the Scene Recognition System, it can track moving subjects effectively using Nikon's 3D-tracking technology.

### 6. HDR (High Dynamic Range)

For scenes with high contrast, the HDR setting combines two exposures to create an image with a wider dynamic range, preserving detail in both highlights and shadows.



This video provides a visual tour of the Nikon D5100 camera, demonstrating its key features such as the Vari-Angle LCD monitor, special effects modes, and HD video recording capabilities.

## MAINTENANCE

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### 1. Cleaning

- Use a blower to remove dust from the lens and camera body.
- For stubborn smudges, use a soft, clean cloth specifically designed for camera lenses.
- Avoid using organic solvents like paint thinner or benzene to clean the camera.

### 2. Battery Care

- Always use the provided quick charger to charge the EN-EL14 battery.
- Store batteries in a cool, dry place when not in use.
- Avoid exposing batteries to extreme temperatures.

## TROUBLESHOOTING

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If you encounter any issues with your Nikon D5100, please refer to the following general troubleshooting tips:

- **Camera not turning on:** Ensure the battery is fully charged and correctly inserted.
- **Images are blurry:** Check your focus settings, ensure adequate lighting, and consider using a tripod or increasing shutter speed.
- **Memory card error:** Ensure the memory card is inserted correctly and is not full or corrupted. Try reformatting the card (this will erase all data).
- **Flash not firing:** Check flash mode settings and ensure the flash is raised if using the built-in flash.

For more detailed troubleshooting, consult the full user manual or contact Nikon support.

## SPECIFICATIONS

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<b>Model Name</b>	Nikon D5100
<b>Photo Sensor Resolution</b>	16.2 MP
<b>Sensor Type</b>	CMOS (APS-C)
<b>Screen Size</b>	3 Inches
<b>Display Type</b>	Vari-Angle TFT-LCD monitor
<b>Video Resolution</b>	FHD 1080p
<b>Continuous Shooting Speed</b>	4 frames per second
<b>ISO Range (Expanded)</b>	100 to 6400
<b>Autofocus Points</b>	11
<b>Compatible Mountings</b>	Nikon F (DX), Nikon F (FX)

<b>Connectivity Technology</b>	HDMI, USB
<b>Item Weight</b>	1.2 Pounds

## WHAT'S IN THE BOX

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The Nikon D5100 (Body Only) package typically includes:

- Nikon D5100 Camera Body
- Rechargeable Li-ion Battery (EN-EL14)
- Quick Charger
- Rubber Eyecup
- USB Cable
- AV Cable
- Camera Strap
- Eyepiece Cap
- Shoe Cover

## WARRANTY INFORMATION

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Your Nikon D5100 camera is covered by a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms, conditions, and duration of coverage. Keep your proof of purchase for warranty claims.

## SUPPORT

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For further assistance, technical support, or service inquiries regarding your Nikon D5100, please visit the official Nikon support website or contact their customer service. Contact information can typically be found in your product documentation or on the Nikon website.