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## Nikon 2144

# Nikon AF-S DX NIKKOR 12-24mm f/4G IF-ED Zoom Lens User Manual

Model: 2144

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and effective use of your Nikon AF-S DX NIKKOR 12-24mm f/4G IF-ED Zoom Lens. Please read this manual thoroughly before using the lens to ensure proper operation and to maximize its performance. Keep this manual accessible for future reference.

## 2. PRODUCT OVERVIEW AND FEATURES

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The Nikon AF-S DX NIKKOR 12-24mm f/4G IF-ED is a wide-angle zoom lens designed for Nikon DX-format DSLR cameras. It offers a constant maximum aperture of f/4 across its zoom range, making it suitable for various photographic conditions.



Figure 1: Nikon AF-S DX NIKKOR 12-24mm f/4G IF-ED Zoom Lens. This image displays the lens from a front-side perspective, highlighting its compact design and the front element.

### Key Features:

- **Versatile Zoom Range:** 12-24mm focal length, ideal for wide-angle photography on DX-format cameras.

- **Constant Aperture:** A fixed f/4 maximum aperture ensures consistent exposure settings throughout the zoom range.
- **Advanced Optical Design:** Incorporates 2 Extra-Low Dispersion (ED) glass elements and 3 aspherical lens elements to minimize chromatic aberration and enhance image sharpness and contrast.
- **D-type Design:** Provides precise distance information to the camera for optimal flash and ambient light exposure control.
- **Rounded Diaphragm:** Contributes to a natural-looking blur (bokeh) in out-of-focus areas.
- **Close Focus Distance:** Capable of focusing as close as 11.8 inches (0.3 meters) for detailed close-up shots.

### 3. SETUP

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#### Attaching the Lens:

1. Ensure the camera is turned off.
2. Remove the rear lens cap and the camera body cap.
3. Align the mounting mark on the lens (typically a white dot) with the mounting mark on the camera body.
4. Rotate the lens counter-clockwise (when viewed from the front) until it clicks into place. Do not force the lens.

#### Detaching the Lens:

1. Ensure the camera is turned off.
2. While pressing the lens release button on the camera body, rotate the lens clockwise until it detaches.
3. Replace the front and rear lens caps to protect the lens elements.

### 4. OPERATING INSTRUCTIONS

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#### Focus Mode Switch:

The lens features a focus mode switch with two settings:

- **M/A (Manual-priority autofocus):** Allows for immediate manual focus override even when autofocus is engaged. Rotate the focus ring to adjust focus after the camera has focused.
- **M (Manual focus):** For manual focusing only. Rotate the focus ring to achieve desired focus.

#### Zooming:

To change the focal length, rotate the zoom ring on the lens. The focal length markings (12, 16, 20, 24mm) indicate the current setting. Ensure a firm grip on the lens while zooming.

#### Aperture Control:

This lens does not have an aperture ring. Aperture is controlled electronically via the camera body. Refer to your camera's instruction manual for details on adjusting aperture settings.

### 5. MAINTENANCE AND CARE

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#### Cleaning the Lens:

- Use a blower brush to remove dust and loose particles from the lens surface.
- For smudges or fingerprints, apply a small amount of lens cleaning solution to a clean, soft lens cloth and gently wipe the surface in a circular motion.
- Never use abrasive materials or harsh chemicals on the lens elements.

## Storage:

- When not in use, always attach the front and rear lens caps.
- Store the lens in a cool, dry place, away from direct sunlight and extreme temperatures.
- Avoid storing the lens with mothballs or other chemicals that can damage coatings.

## 6. TROUBLESHOOTING

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### Lens Not Focusing:

- Check if the focus mode switch on the lens is set to **M/A** for autofocus or **M** for manual focus.
- Ensure the camera's focus mode is also set correctly (e.g., AF-S, AF-C, MF).
- Verify that the lens is securely attached to the camera body.
- Clean the lens and camera contacts if focusing issues persist.

### Image Quality Issues (Blurry/Soft Images):

- Confirm that the lens is properly focused on your subject.
- Check for dirt, smudges, or condensation on the front or rear lens elements.
- Ensure shutter speed is fast enough to prevent camera shake, especially at longer focal lengths or in low light. Consider using a tripod.

## 7. SPECIFICATIONS

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Feature	Detail
Model Number	2144
Brand	Nikon
Focal Length	12-24mm
Maximum Aperture	f/4
Lens Type	Wide Angle Zoom
Compatible Mountings	Nikon F (DX-format)
Product Dimensions	3.54 x 4.09 x 4.09 inches (approx.)
Item Weight	1.43 pounds (approx.)

## 8. WARRANTY AND SUPPORT

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This product comes with a **14-day hassle-free satisfaction guarantee** and a **90-day parts and labor warranty**. For warranty claims or technical support, please refer to the original seller or Nikon's official support channels. Ensure you retain your proof of purchase for warranty validation.

*Note: This specific product is listed as "Renewed" and may have specific warranty terms from the renewed product provider. Please consult your purchase documentation for exact warranty details.*

