

Nikon 2163

Nikon AF-S NIKKOR 14-24mm f/2.8G ED Lens User Manual

Model: 2163

1. PRODUCT OVERVIEW

The Nikon AF-S NIKKOR 14-24mm f/2.8G ED is a high-performance, ultra-wide-angle zoom lens designed for both FX- and DX-format Nikon cameras. It is engineered to deliver exceptional sharpness, contrast, and color, making it suitable for a wide range of photographic applications, including landscapes, architecture, and group shots.

Key features include:

- **Focal Length Range:** 14-24mm, providing an ultra-wide perspective.
- **Constant Aperture:** f/2.8, allowing for excellent low-light performance and shallow depth of field.
- **Optical Design:** Incorporates two Extra-low Dispersion (ED) elements and PGM aspherical lenses to minimize chromatic aberrations and enhance image quality.
- **Nano Crystal Coat:** Reduces ghosting and flare for superior image clarity.
- **Silent Wave Motor (SWM):** Ensures fast, accurate, and quiet autofocus operation.
- **Internal Focus (IF):** Maintains the lens length during focusing, preserving working distance.
- **Rugged Construction:** Professional-grade dust and moisture resistance for durability in various environments.



Figure 1: The Nikon AF-S NIKKOR 14-24mm f/2.8G ED lens, showcasing its robust design and integrated lens hood.

2. SETUP AND INSTALLATION

2.1 Attaching the Lens

1. Ensure your camera is turned off.
2. Remove the body cap from the camera and the rear lens cap from the lens.
3. Align the mounting mark on the lens (usually a white dot) with the corresponding mounting mark on the camera body.
4. Insert the lens into the camera's lens mount and rotate it counter-clockwise until it clicks into place. Do not force the lens.



Figure 2: Front view of the lens, highlighting the large front element and integrated hood.

2.2 Detaching the Lens

1. Turn off the camera.
2. While pressing the lens release button on the camera body, rotate the lens clockwise until it detaches.
3. Attach the front and rear lens caps to protect the lens and camera sensor.



Figure 3: Rear view of the lens with the rear cap, showing the F-mount interface.

3. OPERATING THE LENS

3.1 Focus Mode Switch (M/A and M)

- **M/A (Autofocus with Manual Override):** This mode allows for quick switching between autofocus and manual focus. You can manually adjust focus even when the camera is in autofocus mode by rotating the focus ring.
- **M (Manual Focus):** In this mode, focus is adjusted manually by rotating the focus ring. This is ideal for precise focusing in specific situations or when autofocus struggles.

3.2 Zooming

To change the focal length, rotate the zoom ring on the lens. The lens offers a range from 14mm (ultra-wide) to 24mm (wide-angle). The zoom mechanism is designed for smooth operation.



Figure 4: The lens with its zoom ring visible, allowing adjustment of focal length between 14mm and 24mm.

3.3 Aperture Control

The lens features a constant maximum aperture of f/2.8 across its entire zoom range. Aperture is controlled via the camera body. Refer to your camera's manual for specific instructions on adjusting aperture settings.

4. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, lint-free cloth to clean the lens surfaces. For stubborn smudges, use a lens cleaning solution specifically designed for optical elements. Avoid touching the glass directly with your fingers.
- **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. The included CL-M3 semi-soft case provides additional protection during storage and transport.
- **Dust and Moisture:** While the lens offers dust and moisture resistance, it is not waterproof. Avoid exposing it to heavy rain or dusty environments for prolonged periods.



Figure 5: The CL-M3 semi-soft case, designed to protect the lens during transport and storage.

5. TROUBLESHOOTING

- **Autofocus Issues:** Ensure the lens is set to M/A mode and the camera's focus mode is correctly configured. Check for sufficient light and contrast in your subject. If issues persist, try cleaning the lens and camera contacts.
- **Image Softness:** Verify that the lens is properly attached and clean. Check your camera's shutter speed and aperture settings. Using a tripod can help eliminate camera shake.

- **Dust on Sensor/Lens:** If dust spots appear in your images, first clean the lens elements. If spots persist, the dust may be on your camera's sensor, requiring professional cleaning.

6. SPECIFICATIONS

Feature	Detail
Model Number	2163
Focal Length Range	14-24 mm
Maximum Aperture	f/2.8
Minimum Aperture	f/22
Lens Construction	14 elements in 11 groups (2 ED glass elements, 3 aspherical lenses, 1 Nano Crystal Coat)
Angle of View	114° - 84° (FX format)
Minimum Focus Distance	0.9 feet (0.28 meters)
Autofocus Motor	Silent Wave Motor (SWM)
Filter Size	No front filter thread (built-in lens hood)
Dimensions (Diameter x Length)	5.2 x 3.86 x 3.86 inches (approx.)
Weight	2.14 pounds (approx.)
Compatible Mountings	Nikon F (FX)

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This product includes a Limited 1-Year Warranty, with a Limited 4-Year USA Extension upon registration. Please refer to the warranty card included with your purchase for full terms and conditions. Keep your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, service, or additional product information, please visit the official Nikon website or contact Nikon customer support directly. You can find contact details on the Nikon website or in the documentation provided with your lens.

Online Resources: www.nikonusa.com