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> [Nikon 70-210mm f/4.0 1:4 Nikkor AF Lens Instruction Manual](#)

Nikon Nikkor

Nikon 70-210mm f/4.0 1:4 Nikkor AF Lens Instruction Manual

Model: Nikkor

1. INTRODUCTION

This manual provides comprehensive instructions for the Nikon 70-210mm f/4.0 1:4 Nikkor AF lens. This telephoto zoom lens is designed for Nikon F-mount cameras and features autofocus capabilities. It offers a constant maximum aperture of f/4.0 across its zoom range, making it suitable for various photographic situations.



Figure 1: Front view of the Nikon 70-210mm f/4.0 1:4 Nikkor AF lens, showcasing its barrel and front element.

2. SETUP

2.1 Attaching the Lens

1. Align the mounting index on the lens barrel with the mounting index on the camera body.
2. Rotate the lens counter-clockwise until it clicks into place.
3. Ensure the lens is securely attached before use.

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 elements.

2.3 Camera Compatibility and AF Engagement

This lens is compatible with Nikon F-mount cameras. For autofocus functionality, your camera body must have a built-in autofocus motor. Without an AF motor in the camera body, the lens will operate in manual focus mode only.

To enable autofocus and allow the camera to control the aperture, the aperture ring on the lens must be set to its minimum aperture (f/32) and locked in that position. Failure to do so may result in an AF error or prevent the shutter from releasing.

3. OPERATING THE LENS

3.1 Focusing

- **Autofocus (AF):** When the lens aperture ring is set to f/32 and locked, and the camera body has an AF motor, the camera will control focusing. The outer ring of the lens may move during autofocus operation.
- **Manual Focus (MF):** To focus manually, set the camera to manual focus mode. Rotate the focusing ring on the lens barrel until the subject appears sharp in the viewfinder.

3.2 Zooming

To change the focal length, rotate the zoom ring on the lens barrel. The lens maintains its physical length during zooming and does not change focus when the focal length is adjusted.

3.3 Aperture Control

This lens features a constant maximum aperture of f/4.0. When the aperture ring is locked at f/32, the camera body controls the aperture setting. Adjust the aperture through your camera's settings.

4. MAINTENANCE

4.1 Cleaning the Lens

- Use a blower brush to remove dust from the lens surface.
- For smudges or fingerprints, apply a small amount of lens cleaning fluid to a clean microfiber cloth and gently wipe the lens in a circular motion.
- Avoid touching the lens elements directly with your fingers.
- Do not use organic solvents such as paint thinner or benzene to clean the lens.

4.2 Storage

- When not in use, attach the front and rear lens caps.
- Store the lens in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for an extended period, place the lens in a sealed container with a desiccant to prevent mold and mildew.

5. TROUBLESHOOTING

- **Autofocus not working:**
 - Ensure your camera body has a built-in AF motor.
 - Verify that the lens aperture ring is set to f/32 and locked.

- Check camera settings to ensure AF mode is selected.
- **Lens not attaching securely:**
 - Ensure the mounting indexes on the lens and camera body are correctly aligned.
 - Rotate the lens until it clicks firmly into place.
- **Image quality issues (e.g., soft focus, chromatic aberration):**
 - Ensure the lens elements are clean and free from dust or smudges.
 - Verify proper focus.
 - Some optical characteristics, such as slight chromatic aberration or unique bokeh (due to 7-sided diaphragm), are inherent to the lens design.

6. SPECIFICATIONS

Brand	Nikon
Model Number	Nikkor
Focal Length	70-210mm
Maximum Aperture	f/4.0 (constant)
Lens Type	Telephoto Zoom
Compatible Mountings	Nikon F
Item Weight	1.95 pounds (approx. 0.88 kg)
Package Dimensions	6.6 x 6.2 x 6.2 inches (approx. 16.8 x 15.7 x 15.7 cm)
ASIN	B005MGVGDW
Date First Available	September 11, 2011

Note: Specifications are subject to change without notice.

7. WARRANTY AND SUPPORT

For information regarding warranty coverage, service, or technical support, please refer to the warranty card included with your product or visit the official Nikon website. Contact details for customer service can typically be found on the manufacturer's support pages.

Nikon Official Website: www.nikonusa.com