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› Tamron AF 90mm f/2.8 Di SP AF/MF 1:1 Macro Lens for Nikon DSLR Cameras User Manual

Tamron AF272NII-700

Tamron AF 90mm f/2.8 Di SP AF/MF 1:1 Macro Lens for Nikon DSLR Cameras User Manual

Model: AF272NII-700

1. INTRODUCTION

This manual provides essential instructions for the proper use and care of your Tamron AF 90mm f/2.8 Di SP AF/MF 1:1 Macro Lens. This high-performance lens is designed for Nikon Digital SLR Cameras, offering 1:1 life-size macro capabilities, excellent optical quality, and versatile focusing options. The 'Di' designation indicates its optimization for digital SLR cameras, while 'SP' signifies its Super Performance series design for superior image quality.

Please read this manual thoroughly before using the lens to ensure optimal performance and longevity.

2. SETUP

2.1 Attaching the Lens

1. Ensure both the camera and lens are powered off.
2. Align the mounting index on the lens barrel with the corresponding index on your Nikon DSLR camera body.
3. Rotate the lens clockwise until it clicks into place, indicating it is securely locked.

2.2 Detaching the Lens

1. Ensure the camera is powered off.
2. While pressing the lens release button on the camera body, rotate the lens counter-clockwise until it detaches.

2.3 Included Accessories

- **Lens Hood:** Attach the lens hood to reduce flare and protect the front element.
- **Lens Case:** Use the provided case for safe storage and transport.



Figure 1: Front view of the Tamron AF 90mm f/2.8 Di SP AF/MF 1:1 Macro Lens, showing the front element and focus ring.

3. OPERATING THE LENS

3.1 Autofocus (AF) and Manual Focus (MF) Switching

This lens features an intuitive AF/MF switch mechanism integrated into the focus ring. To switch between autofocus and manual focus modes, simply slide the focus ring back and forth. This allows for quick transitions, which is beneficial in various shooting scenarios, including sports and nature photography.

- **AF Mode:** For automatic focusing. The lens has a built-in motor designed for use with Nikon cameras.
- **MF Mode:** For precise manual focusing. The wide, textured focusing ring provides smooth control.



Figure 2: Side view of the lens, highlighting the AF/MF switch mechanism on the focus ring.

3.2 Focus Limiter Switch

The lens is equipped with a focus limiter switch. This feature prevents the lens from cycling through its entire focus range, which can be particularly useful when shooting subjects within a specific distance range. For instance, when focusing on distant subjects, engaging the limiter can prevent the lens from searching through the macro focus range, speeding up autofocus acquisition.

3.3 General Usage Considerations

- This is a prime lens, meaning it has a fixed focal length of 90mm and is not zoomable.
- The f/2.8 aperture allows for good low-light performance and shallow depth of field.

- For macro photography, a tripod and remote shutter release are recommended to minimize camera shake, especially at minimum focusing distances.
- While excellent for macro, this lens also performs well for portraits and landscapes due to its sharpness and pleasing bokeh.



Figure 3: Side view of the lens, displaying the focus distance window and various markings.

4. MAINTENANCE

4.1 Cleaning the Lens

- **Lens Elements:** Use a lens blower to remove dust, then gently wipe with a clean, soft lens cloth. For stubborn smudges, use a small amount of lens cleaning fluid on the cloth.
- **Lens Body:** Wipe the exterior with a soft, dry cloth. Avoid using harsh chemicals or solvents.

4.2 Storage

- Always attach the front and rear lens caps when not in use.
- Store the lens in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, consider using a dehumidifying agent to prevent mold growth.

5. TROUBLESHOOTING

5.1 Autofocus is Slow or Noisy

- **Observation:** The autofocus mechanism may be slower than newer lenses and can produce audible noise during operation. This is a characteristic of the lens design and not typically an indication of a malfunction.
- **Solution:** For critical macro work, switch to manual focus (MF) for precise control. When shooting portraits or landscapes, the autofocus speed is generally sufficient.

5.2 Lens Not Mounting Correctly

- **Check Compatibility:** Ensure the lens is designed for Nikon F-mount cameras.
- **Alignment:** Re-check the alignment of the mounting indexes on both the lens and camera body.
- **Obstructions:** Inspect the lens mount and camera mount for any debris or damage that might prevent proper attachment.

6. SPECIFICATIONS

Feature	Specification
Model Number	AF272NII-700
Focal Length	90 mm
Maximum Aperture	f/2.8
Lens Type	Macro
Compatible Mountings	Nikon F
Product Dimensions	3.82 x 2.83 x 2.83 inches
Item Weight	14.3 ounces
Date First Available	February 13, 2007

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Specific warranty details for your Tamron lens are typically provided with the product packaging or can be found on the official Tamron website. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, service, or further inquiries regarding your Tamron AF 90mm f/2.8 Di SP AF/MF 1:1 Macro Lens, please contact Tamron customer support directly. Visit the official Tamron website for contact information and support resources.

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