

Nikon 1455

Nikon 105mm f/2.8D AF Micro-Nikkor Lens Instruction Manual

Model: 1455

INTRODUCTION

This manual provides detailed instructions for the proper use and care of your Nikon 105mm f/2.8D AF Micro-Nikkor Lens. Please read this manual thoroughly before using the lens to ensure optimal performance and longevity.

The Nikon 105mm f/2.8D AF Micro-Nikkor is a versatile prime macro lens designed for Nikon SLR cameras. It features a 105mm focal length and a maximum aperture of f/2.8, making it suitable for close-up photography, portraits, and general use. The lens incorporates 10 elements in 9 groups and offers a 1:2 reproduction ratio.

PACKAGE CONTENTS

Verify that your package contains the following items:

- Nikon 105mm f/2.8D AF Micro-Nikkor Lens
- Front Lens Cap
- Rear Lens Cap
- Lens Hood (if included with your specific purchase)

NOMENCLATURE

Familiarize yourself with the parts of your lens:





Image: Side view of the Nikon 105mm f/2.8D AF Micro-Nikkor Lens, showing the textured focus ring and "MADE IN JAPAN" inscription.

- **Focus Ring:** Used for manual focusing.
- **Aperture Ring:** Used to set the aperture (f-stop).

- **Focus Mode Switch (M/A):** Switches between manual and autofocus.
- **Focus Limit Switch (LIMIT/FULL):** Restricts the focus range for faster autofocus.
- **Lens Mount Index:** Alignment mark for attaching the lens to the camera body.
- **Distance Scale:** Indicates the current focus distance.
- **Reproduction Ratio Scale:** Indicates the magnification ratio in macro photography.

SETUP AND ATTACHMENT

1. Attaching the Lens:

Align the lens mount index mark on the lens with the corresponding mark on your Nikon F-mount camera body. Rotate the lens clockwise until it clicks into place. Ensure the lens is securely attached.



Image: Rear view of the lens, showing the Nikon F-mount and electrical contacts. This is the part that connects to the camera body.

2. Removing the Lens:

While pressing the lens release button on the camera body, rotate the lens counter-clockwise until it detaches. Immediately attach the front and rear lens caps to protect the lens elements.

OPERATING THE LENS

Focusing



Image: Top-down view of the lens, highlighting the focus distance scale, reproduction ratio, and the M/A switch.

1. Autofocus (AF):

Set the focus mode switch on the lens to "A" (Autofocus). Ensure your camera body is also set to an autofocus mode. The lens will automatically focus when the camera's shutter release button is pressed halfway.

2. Manual Focus (M):

Set the focus mode switch on the lens to "M" (Manual). Rotate the focus ring to achieve sharp focus. This mode is often preferred for precise macro photography.

3. Focus Limit Switch:

The lens features a "LIMIT - FULL" switch. In "FULL" mode, the lens focuses across its entire range. In "LIMIT" mode, the lens restricts its focus range, which can speed up autofocus when shooting subjects that are not extremely close.

Aperture Control

The 105mm f/2.8D AF Micro-Nikkor lens has an aperture ring. For cameras that support it, you can set the aperture directly on the lens. For modern Nikon DSLRs, it is generally recommended to set the aperture ring to its minimum aperture (f/32) and control the aperture via the camera body's command dial. Consult your camera's manual for specific instructions on aperture control with D-type lenses.



Image: View of the lens showing the aperture ring with f-stop markings (2.8, 4, 5.6, 8, 11, 16, 22, 32).

Macro Photography

This lens is designed for macro photography, offering a 1:2 reproduction ratio. For true 1:1 macro, an extension tube or teleconverter may be required. When shooting macro, consider the following:

- **Depth of Field:** At close focusing distances, the depth of field becomes very shallow. Use smaller apertures (higher f-numbers) to increase depth of field.
- **Stability:** A tripod is highly recommended for macro photography to minimize camera shake and ensure precise focusing.
- **Lighting:** Adequate and even lighting is crucial for macro subjects. Consider using a ring flash or other dedicated macro lighting solutions.

MAINTENANCE AND CARE

- **Cleaning the Lens:**
Use a soft, lint-free cloth or a lens brush to remove dust. For smudges or fingerprints, use a specialized lens cleaning solution and a clean microfiber cloth. Apply solution to the cloth, not directly to the lens element.
- **Storage:**

When not in use, always attach the front and rear lens caps. Store the lens in a dry, cool place, away from direct sunlight and extreme temperatures. If storing for extended periods, a dehumidified environment is ideal to prevent mold growth.

- **Handling:**
Avoid dropping or subjecting the lens to strong impacts. Do not force any moving parts. Keep the lens away from water and excessive moisture.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Autofocus does not work.	<ul style="list-style-type: none"> • Lens focus mode switch set to "M". • Camera body not set to AF mode. • Lens not compatible with camera's AF system (e.g., D5000 series requires built-in AF motor). 	<ul style="list-style-type: none"> • Set lens switch to "A". • Set camera to AF mode. • For cameras without an internal AF motor, manual focus is required.
Images are blurry.	<ul style="list-style-type: none"> • Incorrect focus. • Camera shake. • Shallow depth of field. 	<ul style="list-style-type: none"> • Re-focus carefully. • Use a faster shutter speed or a tripod. • Use a smaller aperture (higher f-number).
Lens not attaching to camera.	<ul style="list-style-type: none"> • Misalignment of mount index. • Obstruction on mount. 	<ul style="list-style-type: none"> • Ensure index marks are aligned. • Check for debris on lens or camera mount.

SPECIFICATIONS

Feature	Detail
Model Number	1455
Focal Length	105 mm
Maximum Aperture	f/2.8
Minimum Aperture	f/32
Lens Type	Macro
Compatible Mountings	Nikon F
Elements/Groups	10 elements in 9 groups
Reproduction Ratio	1:2
Autofocus	Yes (with compatible camera bodies)

Feature	Detail
Product Dimensions	1 x 1 x 1 inches (approximate)
Item Weight	1.5 pounds
Date First Available	September 22, 2002

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Nikon website or contact your local Nikon authorized service center. Keep your purchase receipt as proof of purchase for warranty claims. For additional resources and frequently asked questions, visit the [Nikon Store on Amazon](#) or the official Nikon support pages.