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#### VILTROX 50mm F2.0 Full Frame

# VILTROX 50mm F2.0 Z-Mount AF Prime Lens User Manual

For Nikon Z-Mount Cameras

### 1. Introduction

This manual provides detailed instructions for the proper use and maintenance of your VILTROX 50mm F2.0 Z-Mount AF Prime Lens. Please read this manual thoroughly before using the product to ensure optimal performance and longevity. This lens is designed for Nikon Z-Mount mirrorless cameras, offering a standard focal length with a large aperture for various photographic applications.

### 2. PRODUCT OVERVIEW

The VILTROX 50mm F2.0 Z-Mount lens is a full-frame prime lens featuring a fast F2.0 aperture, STM autofocus motor, and advanced optical design. It is suitable for portraits, street photography, landscapes, and video recording.

#### 2.1 What's in the Box

- 1x VILTROX 50mm F2.0 Z-Mount Lens
- 1x Lens Hood
- 1x Pouch Case
- 1x Front Lens Cap
- 1x Rear Lens Cap
- 1x Clean Cloth
- 1x Warranty Card



Figure 1: Package contents of the VILTROX 50mm F2.0 Z-Mount lens.

## 2.2 Key Features

- 50mm Focal Length: Provides a natural and authentic perspective, ideal for various photography styles.
- Large F2.0 Aperture: Features 9 aperture blades for artistic bokeh and effective subject isolation.
- Advanced Optical Design: Comprises 13 elements in 9 groups, including 3 ED (Extra-low Dispersion) lenses, 4 high refractive index lenses, and 1 aspherical lens for enhanced color reproduction and image clarity.
- Efficient & Reliable Autofocus: Integrated STM (Stepping Motor) provides precise and quiet autofocus, supporting eye/face AF for improved tracking.
- Video Shooting Capabilities: Supports in-body stabilization, offers low distortion, and minimal breathing effect, making it suitable for vlogging and video production.

## 3. SETUP

## 3.1 Attaching the Lens to Your Camera

1. Ensure your camera is powered off.

- 2. Remove the rear lens cap from the VILTROX 50mm F2.0 lens and the body cap from your Nikon Z-Mount camera.
- 3. Align the white mounting mark on the lens barrel with the corresponding mark on your camera's lens
- 4. Insert the lens into the camera mount and rotate it clockwise until it clicks into place. Do not force the lens.
- 5. Attach the lens hood by aligning the mark on the hood with the mark on the lens, then twist until it locks.



Figure 2: VILTROX 50mm F2.0 Z-Mount lens mounted on a Nikon Z-Mount camera.

## 3.2 Firmware Updates

For optimal compatibility and performance, it is recommended to keep your lens firmware updated. If you encounter any compatibility issues, especially with newer camera models, check the VILTROX official website for the latest firmware. You will typically need to connect the lens to a computer via a USB port (if available on the lens) or update through the camera body, following specific instructions provided by VILTROX. For firmware updates and compatibility information, please visit the official VILTROX website:www.viltrox.com

## 4. OPERATING THE LENS

## 4.1 Autofocus (AF)

The lens features an STM stepping motor for fast and quiet autofocus. It supports various AF modes available on your Nikon Z-Mount camera, including:

- Single-servo AF (AF-S): For stationary subjects.
- Continuous-servo AF (AF-C): For moving subjects.
- Full-time AF (AF-F): For video recording.
- Eye/Face Detection AF: Enhances focus accuracy on human subjects.

Refer to your camera's instruction manual for detailed information on selecting and utilizing different AF modes.

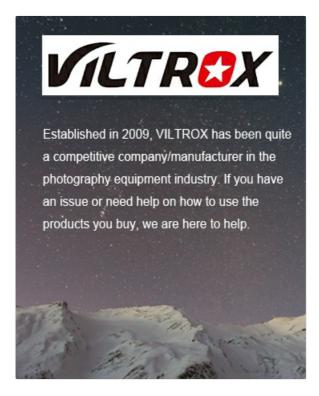


Figure 3: Demonstration of Eye/Face Auto Focus in action.

### 4.2 Manual Focus (MF)

To use manual focus, set your camera's focus mode to MF. Rotate the focus ring on the lens to adjust focus. Your camera's focus peaking or magnification features can assist in achieving precise manual focus.

### 4.3 Aperture Control

The lens features an aperture ring for direct control over the aperture setting. You can also control the aperture through your camera's settings, depending on the camera model and selected mode.

## 4.4 Video Shooting

The VILTROX 50mm F2.0 lens is well-suited for video recording due to its quiet STM motor and minimal focus breathing. When shooting video, consider using continuous autofocus (AF-F) and your camera's in-body image stabilization (if available) for smoother footage.

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Video 1: An overview of the VILTROX 50mm F2.0 Z-Mount lens, demonstrating its compact size and mounting on a Nikon Z camera.

### 5. MAINTENANCE

## 5.1 Cleaning the Lens

- Use a soft, lint-free cloth (like the one provided) to gently wipe dust and smudges from the lens surfaces.
- For stubborn smudges, use a lens cleaning solution specifically designed for optical elements, applied to a cleaning cloth, not directly to the lens.
- · Avoid touching the glass elements with your fingers.

## 5.2 Storage

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

## 6. TROUBLESHOOTING

## **6.1 Lens Not Mounting Correctly**

Ensure the lens is correctly aligned with the camera's mounting marks and rotated until it clicks. If it feels excessively tight or loose, do not force it. Verify that both the lens and camera mount are clean and free of obstructions. Confirm your camera model is compatible with Nikon Z-Mount lenses.

### 6.2 Autofocus Issues

- Check that the camera's focus mode is set to AF.
- Ensure there is sufficient light for the autofocus system to operate effectively.
- Clean the lens contacts on both the lens and camera body.
- Consider updating the lens firmware (refer to Section 3.2).

## **6.3 Image Quality Concerns**

- Ensure the lens elements are clean (refer to Section 5.1).
- Check camera settings such as ISO, shutter speed, and aperture.
- · Verify that the lens is securely mounted to the camera.

### 7. Specifications

Feature	Specification
Brand	VILTROX
Model Number	50mm F2.0 Full Frame
Focal Length	50mm
Maximum Aperture	F2.0
Lens Type	Standard Prime Lens
Compatible Mountings	Nikon Z

Optical Structure	13 elements in 9 groups (including 3 ED, 4 high refractive index, 1 aspherical lens)
Autofocus Motor	STM (Stepping Motor)
Item Weight	14.1 ounces (approximately 400g)
Product Dimensions	8.66 x 4.72 x 3.94 inches

# 8. WARRANTY AND SUPPORT

VILTROX products are covered by a manufacturer's warranty. Please refer to the included Warranty Card for specific terms and conditions regarding your VILTROX 50mm F2.0 Z-Mount lens. For technical support, service, or further inquiries, please visit the official VILTROX website or contact their customer service directly. Official Website: www.viltrox.com

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### Related Documents - 50mm F2.0 Full Frame

	Viltrox AF 23mm f/1.4 XF and Z Mount Camera Lens Specifications  Comprehensive technical specifications, features, and performance data for the Viltrox AF 23mm f/1.4 camera lenses designed for Fujifilm X and Nikon Z mounts, including MTF charts and optical design details.
Thank you for choosing Vittors Land  Thank you f	Viltrox AF 50/2.0 Z Lens Manual and Specifications Comprehensive guide for the Viltrox AF 50/2.0 Z lens, covering features, attachment, detachment, lens hood usage, construction, MTF graphs, safety notes, tips, cleaning, and detailed specifications for Z-mount cameras.
VILTROX AF 135/1.8 LAB Z Z-mount  Finally you for chooling viltrox Lens 1 brick methods and right special for special	VILTROX AF 135/1.8 LAB Z Lens: Features, Specifications, and Manual Comprehensive guide to the VILTROX AF 135/1.8 LAB Z Z-mount camera lens, covering features, identification of parts, functions, handling, safety, and technical specifications.

