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› [VILTROX](#) /

› [VILTROX 27mm f/1.2 Z Lens Instruction Manual](#)

## VILTROX 27mm F1.2

# VILTROX 27mm f/1.2 Z Lens Instruction Manual

For Nikon Z-Mount Mirrorless Cameras

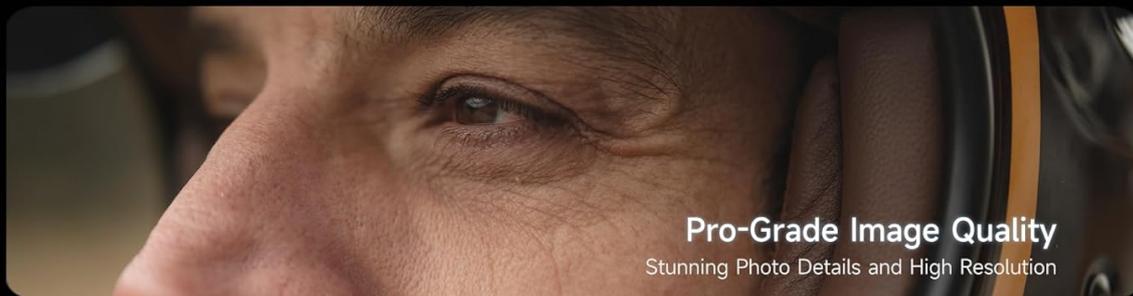
## 1. INTRODUCTION

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Thank you for choosing the VILTROX 27mm f/1.2 Z Lens. This high-performance prime lens is designed for Nikon Z-Mount APS-C mirrorless cameras, offering an ultra-large f/1.2 aperture for exceptional low-light performance and beautiful background blur. Featuring advanced optical design and a fast autofocus system, this lens is suitable for a wide range of photographic styles, including portraits, street photography, and landscapes. Please read this manual thoroughly to understand the lens's features and ensure optimal usage.

# AF 27mm F1.2 Pro

Documentary Photography Ultra Large Aperture Autofocus Prime Lens



*The VILTROX 27mm f/1.2 Z Lens mounted on a compatible Nikon Z-Mount mirrorless camera.*

## 2. WHAT'S IN THE BOX

Please check the contents of your package to ensure all items are present:

- VILTROX 27mm F1.2 Lens for Nikon Z Mount
- Lens Cover
- Lens Cap
- Lotus Lens Hood
- Lens Bag
- User Manual
- Packing Box
- After-sales Card

## What You Get:

1. AF 27mm F1.2 PRO Lens Z Mount
2. Lens Cover
3. Lens Cap
4. Lotus Lens Hood
5. Lens Bag
6. After-sales Card
7. User Manual
8. Packing Box



*The standard package contents for the VILTROX 27mm f/1.2 Z Lens.*

## 3. PRODUCT FEATURES

### 3.1. F1.2 Super Large Aperture

The VILTROX 27mm f/1.2 PRO Z lens features a bright f/1.2 maximum aperture, ideal for shooting in low-light conditions. This large aperture allows for faster shutter speeds and lower ISO settings, resulting in sharp images even in challenging lighting. It also produces a beautiful, soft background blur (bokeh), effectively isolating your subject.



The close focusing distance is only 0.28m, which provides excellent close-up capabilities. Pro-level ultra-high resolution, combined with the superior F1.2 large aperture, effectively highlights the subject.



Thanks to the greater light transmission brought by the F1.2 ultra-large aperture, higher shutter speed and lower ISO index, lossless images with more delicate texture can still be presented under dim light conditions.

*The f/1.2 large aperture creates a beautiful blur effect, making the subject stand out clearly.*

### 3.2. 27mm Focal Length

With a 27mm focal length, this lens provides an approximate 40mm equivalent focal length on APS-C cameras. This perspective is close to the natural human eye, making it versatile for various genres such as street photography, landscapes, and portraits, offering a natural depth perspective.



*The 27mm focal length provides a natural perspective, suitable for diverse photography.*

### 3.3. 0.28m Close-up Distance

The lens offers excellent close-up capabilities with a minimum focusing distance of 0.28 meters. This allows

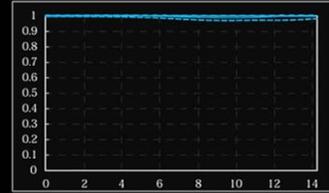
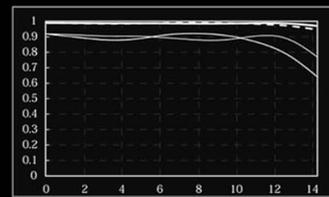
you to capture intricate details and effectively highlight your subject, especially when combined with the f/1.2 aperture for stunning resolution.

## Pro-level Image Quality Presentation

Delivers extraordinary image clarity. With superior resolving power, it restores every detail with stunning accuracy. A lens engineered for professionals seeking perfection.



- 5 high-refractive index lenses combine high image quality with a compact and lightweight design
- 2 ED lenses effectively suppress dispersion and chromatic aberration
- 1 aspherical lens provides excellent distortion control



Spatial Frequency	F1.2		F8	
	S	M	S	M
10 Line Pairs/ Millimeter	—	—	—	—
30 Line Pairs/ Millimeter	—	—	—	—

MTF Chart

*Capture fine details with the 0.28m minimum focusing distance.*

### 3.4. Fast and Precise Autofocus

Equipped with a quiet STM stepper motor, this lens delivers excellent autofocus performance. It supports various automatic focusing modes, including eye and face autofocus, and animal autofocus, ensuring accurate and reliable capture of decisive moments. An on-body MF/AF switch allows for quick transitions between manual and automatic focusing.

## Excellent Autofocus Performance

High-speed autofocus, always grasp the decisive moment. Uses a quiet and highly responsive STM stepping motor for fast and accurate autofocus. With Viltrox's excellent autofocus performance, every decisive moment can be accurately and reliably captured.



*The lens features fast and precise autofocus with support for Eye AF and high-speed tracking.*

### 3.5. Excellent Optical Structure

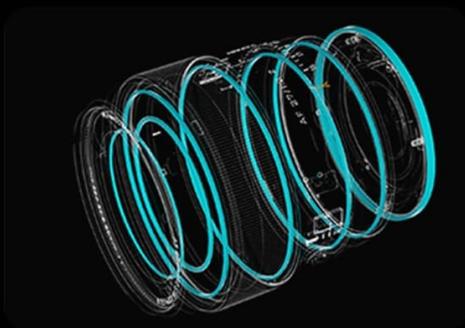
The lens boasts an 11-group, 15-element optical structure, incorporating HOYA aspherical elements, 2 Extra-low Dispersion (ED) lenses, and 5 high-refractive lenses. These elements, combined with high-definition nano-multilayer coatings, effectively control dispersion, ghosting, and glare, delivering extraordinary image clarity and resolution from center to edge.

# All-round Reliability Design

High Durability and Reliability



Efficient dust-proof and splash-proof structure fearless in complex environments



Built-in high-grade dust ring  
to effectively avoid dust



Front lens waterproof and  
HD multi-layer coating

*Detailed diagram of the lens's advanced optical elements.*

## 3.6. Optimize Video Shooting Performance

The large aperture and sophisticated autofocus system contribute to excellent video shooting performance. The lens exhibits an undetectable breathing effect, allowing for flexible creation and concentration on your video content without distracting focus shifts.

## 3.7. Stepped Aperture Ring Design

The lens features a stepped aperture ring with smooth damping, providing tactile control over aperture adjustments. This design allows for quick and precise changes without needing to look away from the viewfinder, preventing accidental touches and ensuring a smooth operational feel.

## Comprehensive and Efficient Control System



Multifunctional Control Ring(XF/E/Z-Mount)



CLICK ON/OFF(E/Z-Mount)



All Metal Body



Brass Plated Bayonet



AF/MF Switching (E/Z-Mount)



Focus Lock Button (E/Z-Mount)



Metal Electronic Contact



USB Type-C Upgrade Interface



Φ67mm Filter Size & Lotus-shade Hood

*The stepped aperture ring provides precise and tactile control.*

### 3.8. All-round Reliability Design

Constructed with an efficient dust-proof and splash-proof structure, this lens is designed to perform reliably in complex environments. It includes a built-in high-grade dust ring and features front lens waterproof and HD multi-layer coatings, offering enhanced durability and protection.

# AF 27mm F1.2 Z Standard Package



1. Packing box
2. Lens
3. Carrying pouch
4. Lens hood
5. Rear cap
6. Lens cap
7. User manual
8. Warranty card

*The lens features a robust dust-proof and splash-proof design for outdoor use.*

## 3.9. Comprehensive and Efficient Control System

The lens integrates a multifunctional control ring, an AF/MF switching mechanism, and a focus lock button for intuitive operation. A USB Type-C upgrade interface is also included for convenient firmware updates, ensuring your lens remains up-to-date with the latest performance enhancements.



*Key control features including the lens hood position, aperture ring, focusing ring, focus lock button, focusing mode switch, CLICK switch, lens hood index, lens mounting index, rubber seal, electronic contacts, and USB upgrade port.*

## 4. SETUP

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### 4.1. Attaching the Lens

1. Ensure your camera is powered off.
2. Align the mounting index (red dot) on the lens with the mounting index on your camera body.
3. Rotate the lens clockwise until it clicks into place. Do not force the lens.

### 4.2. Detaching the Lens

1. Ensure your camera is powered off.
2. While pressing the lens release button on your camera body, rotate the lens counter-clockwise until it stops.
3. Carefully remove the lens from the camera body.

### 4.3. Attaching the Lens Hood

Align the mark on the lens hood with the mark on the front of the lens. Rotate the hood clockwise until it locks into place. The lens hood helps to block stray light and protect the front element of the lens.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Autofocus (AF) / Manual Focus (MF) Switch

Locate the AF/MF switch on the side of the lens. Slide the switch to 'AF' for automatic focusing or 'MF' for manual focusing. In MF mode, rotate the focusing ring to adjust focus manually.

### 5.2. Aperture Ring

The lens features an aperture ring for direct control over the aperture. Rotate the ring to select your desired f-stop. The 'CLICK' switch allows you to enable or disable the click stops on the aperture ring, providing a smooth, de-clicked operation for video recording.

### 5.3. Focus Lock Button

The focus lock button can be customized via your camera's menu to perform various functions, such as locking focus, activating Eye AF, or other programmable controls.

### 5.4. Firmware Updates

To ensure optimal performance and compatibility, VILTROX may release firmware updates for your lens. Connect the lens to your computer via the USB Type-C port and visit the official VILTROX website for instructions and software to perform updates.

## 6. MAINTENANCE

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### 6.1. Cleaning the Lens

- Use a soft, lint-free cloth or a lens brush to remove dust from the lens surfaces.
- For stubborn smudges or fingerprints, apply a small amount of lens cleaning solution to a microfiber cloth and gently wipe the lens in a circular motion.
- Avoid using abrasive materials or harsh chemicals, as these can damage the lens coatings.

## 6.2. Storage

- When not in use, attach the front and rear lens caps and store the lens in its protective bag.
- Store the lens in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for an extended period, consider using a dehumidifier or desiccant to prevent mold and mildew growth.

## 7. TROUBLESHOOTING

### 7.1. Autofocus Issues

- **Lens not focusing:** Ensure the AF/MF switch on the lens is set to 'AF'. Check your camera's focus mode settings.
- **Slow or inaccurate autofocus:** Ensure there is sufficient light on your subject. Clean the lens contacts on both the lens and camera body. Update the lens firmware if available.

### 7.2. Image Quality Concerns

- **Soft images:** Check if the lens is properly focused. Ensure the aperture is not too wide or too narrow for your desired depth of field.
- **Vignetting or distortion:** While the lens is designed to minimize these, some may occur. These can often be corrected in post-processing software using lens profiles.

### 7.3. General Malfunctions

- **Lens not recognized by camera:** Power off the camera, detach and reattach the lens, then power on. Clean the electronic contacts.
- **Unusual noises:** If you hear unusual noises from the lens, discontinue use and contact customer support.

For further assistance, please refer to the VILTROX official website or contact their customer support.

## 8. SPECIFICATIONS

Feature	Description
Item	AF 27/1.2 Pro Z
Lens Mount	Z-mount

Feature	Description
Sensor Format	APS-C
Lens Elements	15/11 (15 elements in 11 groups)
Focal Length	F=27mm
Viewing Angle	55.3°
Aperture	F1.2-F16
Number of Aperture Blades	11
Shooting Distance	0.28m-∞
Focus Mechanism	Internal focus
Focus Motor	STM+Lead screw
Focus Mode	MF/AF
Max. Magnification	0.15X
Lens Size	Z: ≈82x92mm
Weight	Z: ≈605g
Filter Size	Φ67mm

### Specification:

Item:	AF 27/1.2 Pro XF/E/Z	Shooting Distance:	0.28m-∞
Lens Mount:	X/E/Z-mount	Focus Mechanism:	Internal focus
Sensor Format:	APS-C	Focus Motor:	STM+Lead screw
Lens Elements:	15/11	Focus Mode:	MF,AF
Focal length:	F=27mm	Max.magnification:	0.15X
Viewing Angle:	55.3°	Lens Size:	XF/E/Z: Φ82x92mm/82x92mm/82x94mm
Aperture:	F1.2-F16	Weight:	XF: ≈560g E: ≈565g Z: ≈605g
Number of Aperture Blades:	11	Filter Size:	Φ67mm

*Detailed technical specifications for the VILTROX 27mm f/1.2 Z Lens.*

## 9. WARRANTY AND SUPPORT

This VILTROX product is covered by a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the 'After-sales Card' included in your package or visit the official VILTROX website. For technical support, troubleshooting assistance, or service inquiries, please contact VILTROX customer service through their official channels.

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