

VILTROX AF 85mm F2.0 FE

VILTROX 85mm F2 EVO FE Lens Instruction Manual

MODEL: AF 85MM F2.0 FE FOR SONY E-MOUNT

Introduction

This manual provides detailed instructions for the proper use and maintenance of your VILTROX AF 85mm F2.0 EVO FE full-frame portrait lens. Designed for Sony E-Mount cameras, this lens features a wide F2.0 aperture, advanced optical elements, and enhanced autofocus capabilities. Please read this manual thoroughly before using the lens to ensure optimal performance and longevity.

What's in the Box

- VILTROX AF 85mm F2.0 EVO FE Lens
- Lens Pouch
- Front Lens Cap
- Rear Lens Cap
- Lens Hood



Figure 1: Included items with the VILTROX AF 85mm F2.0 EVO FE lens.

Setup

1. Attaching the Lens to Your Camera

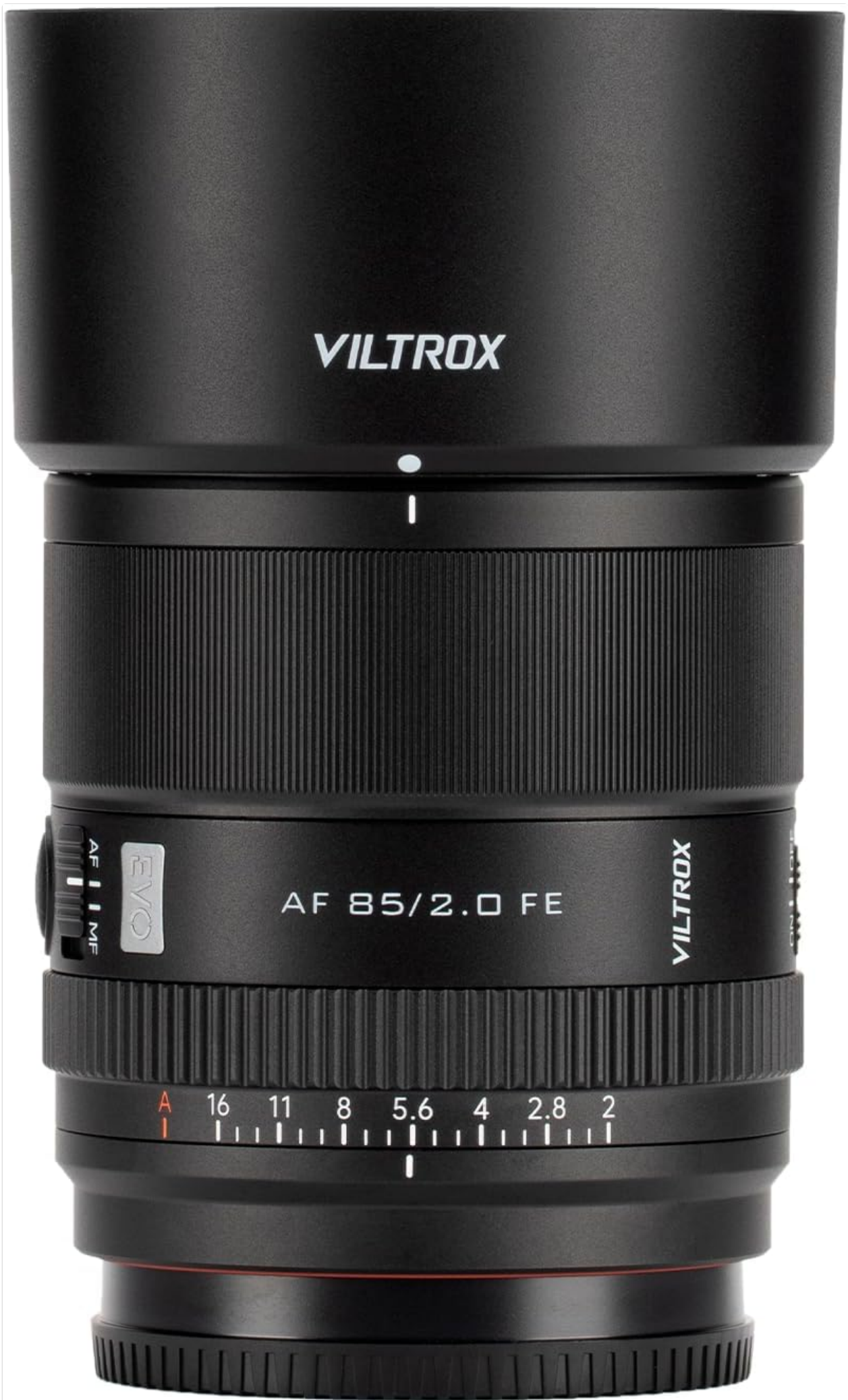
1. Ensure your camera is powered off.
2. Align the white index mark on the lens barrel with the corresponding white index mark on your Sony E-Mount camera body.
3. Gently insert the lens into the camera's lens mount.
4. Rotate the lens clockwise until it clicks into place, indicating it is securely locked.
5. Remove the front lens cap.



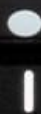
Figure 2: The VILTROX AF 85mm F2.0 EVO FE lens attached to a Sony camera body.

2. Attaching the Lens Hood

- Align the lens hood with the front of the lens.
- Twist the hood until it locks into position. The lens hood helps to prevent flare and protect the front element.



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A 16 11 8 5.6 4 2.8 2

Figure 3: The lens with the lens hood installed.

3. Unboxing and Initial Inspection

Video 1: An overview of the VILTROX AF 85mm F2.0 EVO FE lens, including unboxing and initial handling.

Operating the Lens

1. Focus Mode Switch (AF/MF)

The lens features a switch on the barrel to select between Autofocus (AF) and Manual Focus (MF) modes. Slide the switch to your desired mode.

- **AF (Autofocus):** The camera will automatically focus on your subject. This mode is ideal for most shooting situations.
- **MF (Manual Focus):** Allows you to manually adjust the focus by rotating the focus ring on the lens. This is useful for precise focusing in specific scenarios or when autofocus struggles.



Figure 4: The AF/MF switch on the lens barrel.

2. Aperture Control

The lens features an aperture ring for direct control over the aperture setting. You can choose between F2.0 (wide open) to F16. The wider aperture (smaller f-number) allows more light and creates a shallower depth of field (more background blur), while a narrower aperture (larger f-number) allows less light and creates a deeper depth of field (more in focus).



Figure 5: The aperture ring on the VILTROX AF 85mm F2.0 EVO FE lens.

3. Demonstrating Aperture Effects (Daylight)

Video 2: This video demonstrates the effect of different aperture settings (F2.0 to F16) on depth of field and background blur in daylight conditions.

4. Demonstrating Aperture Effects (Night Scene)

Video 3: This video illustrates how varying aperture settings (F2.0 to F16) impact the appearance of night scenes, particularly bokeh and light rendition.

Maintenance

1. Cleaning the Lens

- Use a soft, lint-free cloth or a lens brush to remove dust from the lens surfaces.
- For 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 touching the glass elements directly with your fingers.

2. Storage

- Always attach both 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, consider using a dehumidifying cabinet or silica gel packets to prevent mold growth.

Troubleshooting

1. Autofocus Issues in Low Light

In very low light conditions, the autofocus system may struggle to acquire focus. This is a common characteristic of many lenses and camera systems.

- **Solution:** Switch to Manual Focus (MF) mode and adjust focus manually.
- **Solution:** Use an external light source to illuminate your subject, aiding the autofocus system.
- **Solution:** Ensure your camera's firmware and the lens's firmware (if applicable) are up to date, as updates can sometimes improve autofocus performance.

2. Vignetting at Wide Apertures

Some vignetting (darkening of the image corners) may be noticeable at wider apertures (e.g., F2.0 to F4). This can be a creative effect for portraits but can also be corrected.

- **Solution:** Stop down the aperture to a narrower setting (e.g., F5.6 or higher) to reduce vignetting.
- **Solution:** Vignetting can often be corrected in post-processing software using lens profiles or manual adjustments.

Specifications

Feature	Detail
Brand	VILTROX
Model	AF 85mm F2.0 FE
Focal Length	85mm (Fixed)
Maximum Aperture	F2.0
Minimum Aperture	F16
Lens Type	Standard, Portrait
Compatible Mountings	Sony FE (E-Mount)
Autofocus Motor	Stepping Motor (STM)
Minimum Focusing Distance	0.74 meters (2.43 feet)
Optical Design	10 elements in 8 groups (including ED and HR lenses)
Product Dimensions	3 x 2.7 x 2.7 inches
Item Weight	12 ounces (340g)
ASIN	B0FSZF3WBT
Date First Available	September 28, 2025

Lens Construction Diagram



Figure 6: Exploded view of the lens optical elements.

Modulation Transfer Function (MTF) Chart



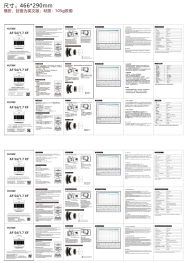
Figure 7: MTF chart illustrating lens performance.

Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the warranty card included in your product packaging or visit the official VILTROX website. Keep your proof of purchase for warranty claims.

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	<p>Viltrox 20mm F2.8 AF STM Lens for Sony E-Mount: User Manual and Specifications</p> <p>Comprehensive guide to the Viltrox 20mm F2.8 AF STM lens for Sony E-mount cameras, covering features, specifications, optical performance, and usage instructions.</p>
	<p>Viltrox AF 85mm f/2.0 EVO FE Lens for E-Mount - User Manual and Specifications</p> <p>Comprehensive user manual and technical specifications for the Viltrox AF 85mm f/2.0 EVO FE autofocus lens for E-mount cameras. Learn about features, installation, maintenance, and product parameters.</p>
	<p>Viltrox AF 9mm f/2.8 E-Mount Lens - User Manual and Specifications</p> <p>Comprehensive user manual and technical specifications for the Viltrox AF 9mm f/2.8 E lens, designed for E-mount cameras. Covers features, installation, safety precautions, cleaning, and detailed performance data.</p>
	<p>VILTROX AF 135/1.8 LAB Z Lens: Features, Specifications, and Manual</p> <p>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.</p>
	<p>Viltrox AF 135/1.8 LAB FE E-mount Lens - User Manual</p> <p>User manual for the Viltrox AF 135/1.8 LAB FE E-mount lens, detailing features, specifications, usage instructions, and safety notes.</p>



[Viltrox AF 56/1.7 XF Lens for Fujifilm X-Mount - Features, Specifications, and Guide](#)

Detailed information on the Viltrox AF 56/1.7 XF prime lens for Fujifilm X-Mount cameras. Discover its features, optical design, specifications, MTF charts, and usage instructions for professional photography.