

VILTROX AF 23mm/1.4 E

VILTROX 23mm f/1.4 Auto Focus E-Mount Lens Instruction Manual

Brand: **VILTROX** | Model: **AF 23mm/1.4 E**

1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, maintenance, and troubleshooting of your VILTROX 23mm f/1.4 Auto Focus E-Mount Lens. Please read this manual thoroughly before using the product to ensure optimal performance and longevity. This lens is designed for Sony E-mount cameras, offering a wide-angle perspective with a large aperture, suitable for various photographic applications.

2. PRODUCT OVERVIEW

The VILTROX 23mm f/1.4 lens is a prime wide-angle lens featuring a bright f/1.4 maximum aperture. It is compatible with APS-C format Sony E-mount mirrorless cameras such as the A6600, A6500, A6400, A6300, A6100, and full-frame cameras like the A9, A7RIII, A7RII, A7II, A7S, and A7R. Its design incorporates an STM stepping motor for quick, quiet, and precise autofocus.

Key Features:

- **23mm f/1.4 AF Lens for Sony:** Prime wide-angle lens designed for Sony E-mount APS-C and full-frame cameras.
- **Auto Focus:** Equipped with a Viltrox STM stepping motor for fast, quiet, and precise autofocus performance, including full-time manual focus override.
- **Large Aperture:** Bright F1.4 maximum aperture allows for beautiful defocusing effects, excellent low-light performance, and shallow depth of field, ideal for portraits, action, and nighttime photography.
- **Optical Construction:** Features 11 elements in 10 groups, including 2 ED lenses and 2 high refraction index lenses to effectively suppress chromatic aberration. HD Nano multilayer coating enhances water resistance and minimizes aberrations.
- **Durable and Portable Design:** Constructed with a durable metal body, weighing approximately 0.57lb

(260g), offering a compact and precise structure with a comfortable hand feeling. An integrated micro-USB port allows for firmware updates.

Product Components:



The VILTROX 23mm f/1.4 E-Mount Lens shown with its included lens hood, highlighting its compact design and aperture ring.



The VILTROX 23mm f/1.4 E-Mount Lens without the lens hood, displaying the focus and aperture rings.



A close-up image of the lens's aperture blades, demonstrating the circular opening for light control.

Large Aperture Lens Specially Designed For Sony E-mount

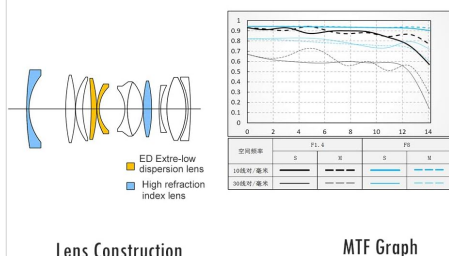
The focal length of this lens is equivalent to 35mm format, which is suitable for a wide range of scenes like portraiture, landscape, indoor shot, architecture, night view, etc.



The VILTROX 23mm f/1.4 lens securely mounted on a Sony E-mount mirrorless camera, ready for use.

11 Elements in 10 Groups CLASSIC PRIME LENS

11 lens elements in 10 groups includes 2 ED lenses and 2 high refraction index lenses, which can effectively suppress chromatic aberration. The depth of field under the large aperture of F1.4 is very small, and a large blur appears from near the focal point



An illustration detailing the internal optical construction of the lens, including ED and high refraction index elements, alongside an MTF (Modulation Transfer Function) graph indicating optical performance.

F1.4 Large Aperture WIDE VIEWING ANGLE

Easy to get soft and beautiful out of focus. The bright F1.4 maximum aperture enables greater control over depth of field for isolating subject matter.



An example photograph taken with the lens, showcasing its wide viewing angle and the soft, blurred background achieved with its large aperture.

Track the Subject SUPPORT EYE-AF

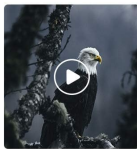
Accurate eye detection, focus easily on human eyes, and track moving subjects in real time.



A portrait image illustrating the lens's Eye-AF capability, with a green focus box precisely tracking the subject's eye.

STM Silent Motor QUITE AND SMOOTH AUTOFOCUS

STM silent focus motor can accurately control the moving position then brings precise and smooth focusing.

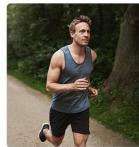


Video Shooting

STM silent motor with low noise to record snapshot

High-speed Snapshot

Improve focusing efficiency and achieve accurate and smooth autofocus.



A composite image demonstrating the lens's suitability for both video shooting with its silent STM motor and high-speed snapshots with accurate autofocus.

3. SETUP

3.1 Attaching the Lens

1. Ensure your camera is powered off.
2. Remove the rear lens cap and the camera body cap.
3. Align the white index mark on the lens barrel with the white index mark on your camera's lens mount.
4. Insert the lens into the camera mount and rotate it clockwise until it clicks into place. Do not force the lens.

3.2 Removing 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. Gently pull the lens straight out from the camera mount.
4. Attach the rear lens cap to the lens and the body cap to the camera to protect them from dust.

3.3 Firmware Updates

The lens features an integrated micro-USB port for firmware updates. To update the firmware:

1. Visit the official VILTROX website for the latest firmware and update instructions.
2. Download the appropriate firmware file for your lens model.
3. Connect the lens to your computer using a micro-USB cable.
4. Follow the instructions provided by VILTROX to complete the firmware update process.

4. OPERATING INSTRUCTIONS

4.1 Autofocus (AF)

The VILTROX 23mm f/1.4 lens utilizes an STM stepping motor for fast and quiet autofocus. Ensure your camera's focus mode is set to AF. The lens supports advanced AF functions like Eye-AF on compatible Sony cameras, allowing for precise tracking of human eyes.

4.2 Manual Focus (MF)

To use manual focus, set your camera's focus mode to MF. Rotate the focus ring on the lens barrel to adjust focus. The lens also supports full-time manual focus override, allowing you to fine-tune focus even when in AF mode, depending on your camera settings.

4.3 Aperture Control

The lens features an aperture ring on the barrel for direct control over the aperture. Rotate the ring to select your desired f-stop, ranging from f/1.4 (maximum aperture) to f/16 (minimum aperture). The bright f/1.4 aperture is ideal for achieving shallow depth of field and performing well in low-light conditions.

***Note:** Some users have reported that the aperture ring can be easily changed inadvertently. Exercise care when handling the lens to maintain your desired aperture setting.*

5. MAINTENANCE

5.1 Cleaning the Lens

- Use a blower brush to remove dust from the lens surface.
- For smudges or fingerprints, use a clean, soft microfiber cloth specifically designed for optics, along with a small amount of lens cleaning solution.
- Wipe gently in a circular motion from the center outwards.
- 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 an extended period, consider using a dehumidifying cabinet or silica gel packets to prevent mold growth.

5.3 Handling Precautions

- Avoid dropping or subjecting the lens to strong impacts.
- Do not expose the lens to water or high humidity. The lens is not sealed against weather.
- Do not attempt to disassemble the lens, as this will void the warranty.

6. TROUBLESHOOTING

Common Issues and Solutions:

Problem	Possible Cause	Solution
Autofocus is slow or hunts in low light.	Insufficient light for the AF system; subject lacks contrast.	Use a brighter light source, focus on a high-contrast area, or switch to manual focus. Ensure camera firmware is up to date.
Aperture setting changes unexpectedly.	Accidental rotation of the aperture ring.	Be mindful of the aperture ring during handling. Some users apply tape to secure the ring if using a fixed aperture.
Lens not recognized by camera.	Improper mounting; dirty electrical contacts; outdated firmware.	Re-attach the lens securely. Clean the lens and camera electrical contacts with a clean, dry cloth. Update lens and camera firmware.
Images are soft or out of focus.	Incorrect focus; camera shake; lens defect.	Verify focus point. Use a faster shutter speed or tripod to prevent camera shake. If problem persists, contact support.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact VILTROX customer support for further assistance.

7. SPECIFICATIONS

Product Information		
Name	Mount Type	Lens Elements
AF23/1.4 E	E-mount	10/11
Focal Length	Viewing Angle	Max.Aperture
23mm	63.4°	F1.4
Min.Aperture	Filter Size	Aperture Blades
F16	Φ52	9
Focus Mechanism	Focus Range	Focus Motor
Internal Focus	0.3m-∞	STM+Lead screw
Focus Mode	Max.Magnification	Outer Diameter Size
AF,MF	0.1	Φ65mmx72mm
Weight		
260g		

A visual representation of the VILTROX 23mm f/1.4 E-Mount Lens's key specifications.

Feature	Detail
Product Name	AF23/1.4 E
Mount Type	Sony E-mount

Feature	Detail
Focal Length	23 mm
Lens Elements / Groups	11 Elements in 10 Groups
Maximum Aperture	F1.4
Minimum Aperture	F16
Aperture Blades	9
Viewing Angle	63.4°
Focus Mechanism	Internal Focus
Focus Range	0.3m - ∞
Focus Motor	STM + Lead screw
Focus Mode	AF, MF
Maximum Magnification	0.1
Filter Size	Φ52 mm
Outer Diameter Size	Φ65mm x 72mm
Item Weight	9.2 ounces (260g)
Product Dimensions	2.56 x 2.56 x 2.83 inches
Compatible Mountings	Sony E
Date First Available	July 21, 2020

8. WARRANTY AND SUPPORT

VILTROX products, including the 23mm f/1.4 E-Mount Lens, are typically backed by a manufacturer's warranty. This product is offered with an **Eight-year warranty** when purchased from an official authorized dealer like PhoZoom US. For warranty claims, technical assistance, or professional support, please retain your proof of purchase and contact your authorized dealer or VILTROX customer service directly. For more information and support resources, please visit the official [VILTROX Store](#).