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## VILTROX AF 20mm F2.8 E-Mount Lens

# VILTROX AF 20mm F2.8 E-Mount Lens Instruction Manual

Model: AF 20mm F2.8 E-Mount Lens

## 1. INTRODUCTION

This manual provides comprehensive instructions for the VILTROX AF 20mm F2.8 E-Mount Lens. It covers setup, operation, maintenance, and technical specifications to ensure optimal performance and longevity of your lens. Please read this manual thoroughly before using the product.

## 2. PRODUCT FEATURES

- Wide-Angle Prime Lens:** 20mm focal length with a bright F2.8 aperture, ideal for landscapes, architecture, and astrophotography.
- Autofocus (AF) System:** Equipped with a precise and quiet autofocus motor for quick and accurate focusing.
- E-Mount Compatibility:** Designed specifically for Sony E-mount mirrorless cameras, including full-frame and APS-C models.
- Compact and Lightweight Design:** Facilitates portability and comfortable handling.
- Integrated USB-C Port:** Allows for firmware updates.
- 52mm Filter Thread:** Compatible with standard 52mm filters for creative control and lens protection.
- Durable Construction:** Features a robust metal mount for secure attachment.

## 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- VILTROX AF 20mm F2.8 E-Mount Lens
- Front Lens Cap
- Rear Lens Cap
- Lens Hood
- 52mm UV Filter

- Instruction Manual (this document)



*Image: The VILTRON AF 20mm F2.8 E-Mount lens shown with its included 52mm UV filter and lens hood.*

## 4. PARTS IDENTIFICATION

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Familiarize yourself with the various parts of your VILTRON AF 20mm F2.8 E-Mount Lens.

### Front View



*Image: Front view of the lens, highlighting the front optical element, 52mm filter thread, and the focus ring. Markings for focal length (AF 20mm 1:2.8) and minimum focusing distance (0.19m/0.62ft) are visible.*

### **Rear View (Mount Side)**



*Image: Rear view of the lens, displaying the Sony E-mount, electrical contacts for communication with the camera body, and the rear optical element.*

### **Close-up of Front Element**



*Image: A detailed view of the lens's front element, showing the multi-coating and aperture blades within.*

#### **Close-up of Mount and USB Port**



*Image: A close-up of the lens mount, clearly showing the gold-plated electrical contacts for camera communication and the USB-C port for firmware updates.*

## 5. SETUP

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### 5.1 Attaching the Lens to the Camera

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

### 5.2 Attaching the 52mm UV Filter

1. Carefully remove the front lens cap from the lens.
2. Align the threads of the 52mm UV filter with the filter thread on the front of the lens.

3. Gently rotate the filter clockwise until it is securely attached. Avoid overtightening.



*Image: A hand demonstrating the placement of the 52mm UV filter onto the front of the lens. The filter is designed to protect the lens and enhance light transmission.*

### 5.3 Attaching the Lens Hood

1. Align the lens hood with the front of the lens, ensuring the alignment mark on the hood matches the mark on the lens.
2. Rotate the hood clockwise until it locks into place.
3. The lens hood helps to prevent flare and provides additional protection to the front element.



*Image: The VILTROX AF 20mm F2.8 E-Mount lens with its petal-shaped lens hood securely attached, ready for use.*

## 6. OPERATING THE LENS

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### 6.1 Autofocus Operation

When attached to a compatible Sony E-mount camera, the lens will automatically engage the camera's autofocus system. Select your desired AF mode (e.g., AF-S, AF-C, DMF) on your camera body. The lens's internal focusing motor will provide fast and accurate focusing.

### 6.2 Manual Focus Operation

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

### 6.3 Aperture Control

The aperture of the lens is controlled electronically through the camera body. Adjust the aperture setting (f-stop) using your camera's controls in Aperture Priority (A), Manual (M), or Program (P) modes.

## 6.4 Firmware Updates

The integrated USB-C port allows for firmware updates to improve lens performance and compatibility. Visit the official VILTROX website for the latest firmware and instructions on how to update your lens.

## 7. MAINTENANCE AND CARE

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- **Cleaning the Lens Elements:** Use a lens blower to remove dust, then a soft lens brush. For smudges, use a clean microfiber lens cloth with a small amount of lens cleaning solution. Apply solution to the cloth, not directly to the lens.
- **Cleaning the Lens Body:** Wipe the lens body with a soft, dry cloth. Do not use organic solvents like paint thinner or benzene.
- **Storage:** Store the lens in a cool, dry, and well-ventilated place away from direct sunlight. Avoid storing in areas with high humidity to prevent mold growth. Attach both front and rear lens caps when not in use.
- **Protection:** The included 52mm UV filter provides an additional layer of protection for the front lens element against dust, scratches, and impacts.



*Image: The lens with a UV filter in a snowy mountain setting, demonstrating protection against environmental elements.*

## MULTIPLE SCENE PROTECTION LENSES



*Image: Examples of the lens with a UV filter providing protection in challenging conditions such as snow and sand.*

## 8. TROUBLESHOOTING

| Problem                          | Possible Cause / Solution                                                                                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lens not recognized by camera.   | Ensure the lens is securely attached to the camera body.<br>Clean the electrical contacts on both the lens and camera with a clean, dry cloth.<br>Restart the camera.<br>Check for available firmware updates for the lens and camera. |
| Autofocus is slow or inaccurate. | Ensure sufficient light in the shooting environment.<br>Check camera's AF settings (e.g., AF area mode, AF-S/AF-C).<br>Clean lens elements.<br>Update lens firmware.                                                                   |
| Images are blurry.               | Verify focus.<br>Check shutter speed to avoid camera shake.<br>Ensure lens elements are clean.<br>Check for proper lens attachment.                                                                                                    |

## 9. SPECIFICATIONS

| Parameter        | Value |
|------------------|-------|
| Focal Length     | 20mm  |
| Maximum Aperture | F2.8  |

| Parameter                 | Value                                 |
|---------------------------|---------------------------------------|
| Minimum Aperture          | F16                                   |
| Lens Mount                | Sony E-Mount                          |
| Format Compatibility      | Full-Frame                            |
| Angle of View             | 94.7°                                 |
| Minimum Focusing Distance | 0.19m (0.62ft)                        |
| Maximum Magnification     | 0.17x                                 |
| Optical Design            | 10 Elements in 8 Groups               |
| Diaphragm Blades          | 7                                     |
| Autofocus                 | Yes                                   |
| Filter Size               | 52mm                                  |
| Dimensions (ø x L)        | Approx. 65mm x 59.5mm (2.56" x 2.34") |
| Weight                    | Approx. 157g (5.54 oz)                |
| Firmware Update Port      | USB-C                                 |

## 10. WARRANTY AND SUPPORT

VILTROX products are covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product. Please retain your proof of purchase for warranty claims.

For technical support, service, or warranty inquiries, please visit the official VILTROX website or contact your local authorized VILTROX dealer. You can find contact information and frequently asked questions on the VILTROX support page.

**Official VILTROX Website:** [www.viltrox.com](http://www.viltrox.com)