

VILTROX TC-2.0X

VILTROX TC-2.0X Auto Focus Teleconverter Lens Instruction Manual

Model: TC-2.0X

1. INTRODUCTION

This manual provides comprehensive instructions for the VILTROX TC-2.0X Auto Focus Teleconverter. This accessory is designed to extend the focal length of compatible Sony E-mount lenses by 2.0 times, allowing for enhanced telephoto capabilities while maintaining autofocus functionality and image quality.

2. PRODUCT OVERVIEW

Key Features

- **2x Focal Length Extension:** Extends the telephoto shooting focal length without increasing the number of lenses.
- **Wide Compatibility:** Achieves a focal length of 2.0X that of the original lens while maintaining overall image quality and autofocus.
- **Accurate Autofocus:** Minimizes the decrease in autofocus accuracy and speed for comfortable shooting.
- **Advanced Optical Structure:** Features 9 elements in 5 groups, utilizing the performance of the main lens and reducing image distortion and color difference.
- **Reliable Design:** Includes dustproof and anti-drip construction to protect internal components and an easy-to-rotate anti-slip rolling design.



Image: The VILTROX TC-2.0X Teleconverter shown with its protective front and rear caps, and a soft carrying pouch.

What's in the Box

- 1 x VILTROX TC-2.0X Teleconverter
- 1 x Front Cap
- 1 x Rear Cap
- 1 x Storage Bucket (Pouch)
- 1 x Electronic Manual (QR code or link)
- 1 x Packaging Box

What's in the box



Image: All items included in the VILTROX TC-2.0X Teleconverter package, neatly arranged.

3. SETUP AND INSTALLATION

1. **Power Off Camera:** Ensure your camera is powered off before attaching or detaching any lenses or accessories.
2. **Attach Teleconverter to Camera:** Align the mounting index on the teleconverter with the corresponding index on your camera body. Rotate the teleconverter clockwise until it clicks securely into place.
3. **Attach Lens to Teleconverter:** Align the mounting index on your compatible lens with the corresponding index on the teleconverter. Rotate the lens clockwise until it clicks securely into place.
4. **Remove Caps:** Remove the front cap from the lens and the rear cap from the teleconverter before use.

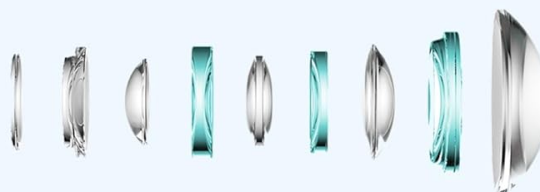
To detach, reverse the process: press the lens release button on the teleconverter to remove the lens, then press the camera's lens release button to remove the teleconverter.

- Expand to 2x focal length

2X



- Support auto focus, EXIF information transmission



9 Elements of 5 Groups Optical Structures

- USB-C firmware upgrade interface



- Dustproof and anti drip design



Image: The VILTROX TC-2.0X Teleconverter shown correctly installed between a camera and a compatible lens, ready for use.

4. OPERATING INSTRUCTIONS

Focal Length Extension

The TC-2.0X Teleconverter doubles the focal length of the attached lens. For example, a 70-200mm lens will effectively become a 140-400mm lens when used with this teleconverter. This allows for greater magnification of distant subjects.

Expand to 2x Focal Length

The **2.0X TELECONVERTER** extends the telephoto shooting focal length without increasing the number of lenses.



Without TELECONVERTER 2.0X



▲ 1.0X

With TELECONVERTER 2.0X



▲ 2.0X

Image: A visual demonstration of the 2x focal length extension, showing a subject at original magnification and then at double magnification.

Autofocus Functionality

The VILTROX TC-2.0X Teleconverter is designed to maintain the autofocus capabilities of the attached lens. While autofocus accuracy and speed are largely preserved, minor variations may occur depending on lighting conditions and the specific lens used.



Accurate Autofocus

The **2.0X TELECONVERTER** achieves comfortable shooting by minimizing the decrease in autofocus accuracy and speed.



Image: A demonstration of the teleconverter's accurate autofocus, highlighting a subject in focus.

EXIF Information Transmission

The teleconverter supports the transmission of EXIF data between the lens and the camera body. This ensures that focal length, aperture, and other relevant shooting information are correctly recorded in your image files.

5. COMPATIBILITY

The VILTROX TC-2.0X Teleconverter is compatible with specific Sony E-mount lenses and the Viltrox 135mm F1.8 LAB FE lens. Refer to the compatibility list below. When a teleconverter is installed, the lens aperture value will be doubled (e.g., f/2.8 becomes f/5.6). Simultaneously, with reduced light intake and enhanced diffraction, image quality may suffer from decreased resolution and increased vignetting at extreme apertures. Therefore, when using a teleconverter, the lens will block both large and small apertures; select a mid-range aperture for optimal image quality.

2.0X Teleconverter Compatibility List

NOTE : When a teleconverter is installed, the lens aperture value will be doubled (e.g., f/2.8 becomes f/5.6). Simultaneously, with reduced light intake and enhanced diffraction, image quality may suffer from decreased resolution and increased vignetting at extreme apertures. Therefore, when using a teleconverter, the lens will block both large and small apertures; select a mid-range aperture for optimal image quality.

Lens name	Photo/video mode	Lens name	Photo/video mode
Viltrox 135mmF1.8 LAB FE	✔ compatible	Sony SEL200-600G	✔ compatible
Sony SEL70-200G2	✔ compatible	Sony SEL400-800G	✔ compatible
Sony SEL70-200GM2	✔ compatible	Sony SEL300F28GM	✔ compatible
Sony SEL70-200GM	✔ compatible	Sony SEL400F28GM	✔ compatible
Sony SEL100-400GM	✔ compatible	Sony SEL600F40GM	✔ compatible

TC-2.0X(E-mount) Lens firmware version v1.0.2

Things to note!

- Stacking of adapter rings (including Viltrox E-Z adapter ring) is not supported.
- Lenses not on the compatibility list are not supported (products not on the compatibility list may damage the lens or camera).
- When using a teleconverter, the camera must be turned off before disassembling and installing it.

Image: A detailed compatibility list for the VILTROX TC-2.0X Teleconverter, showing supported lenses and their photo/video mode compatibility.

Important Notes

- Stacking of adapter rings (including Viltrox E-Z adapter ring) is not supported.
- Lenses not on the compatibility list are not supported; using them may damage the lens or camera.
- When using a teleconverter, the camera must be turned off before disassembling and installing it.

6. MAINTENANCE

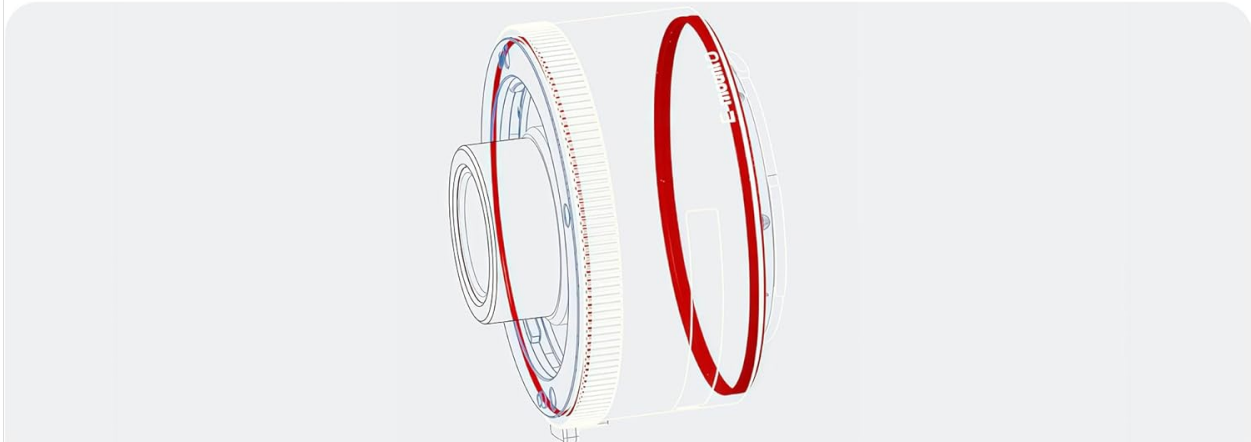
The VILTROX TC-2.0X Teleconverter features a dustproof and anti-drip design to protect its internal components from environmental elements. To ensure longevity and optimal performance:

- Keep the lens surfaces clean using a soft, lint-free cloth and lens cleaning solution.
- Avoid touching the electrical contacts on either side of the teleconverter. If necessary, clean them gently with a dry, clean cloth.
- Store the teleconverter with its front and rear caps attached in a dry, cool place when not in use.
- Avoid exposing the teleconverter to extreme temperatures or humidity.

Reliable design

#Dustproof and anti drip design

Prevent dust and water droplets from entering the interior of the camera, and keep the camera connections undamaged.



#Easy to rotate anti slip rolling design



Image: A visual representation of the teleconverter's reliable design, highlighting its dustproof and anti-drip features.

7. TROUBLESHOOTING

If you encounter issues with your VILTROX TC-2.0X Teleconverter, consider the following:

- **Autofocus Issues:** Ensure the teleconverter and lens are securely mounted. Check for clean electrical contacts. Autofocus performance may be reduced in very low light or with subjects lacking contrast.
- **Image Quality Concerns:** Verify that your lens is on the compatibility list. As noted, using a teleconverter can affect image quality, especially at wide-open or very narrow apertures. Try shooting at a mid-range aperture.
- **Camera Not Recognizing Lens:** Power off the camera, detach and reattach the teleconverter and lens, ensuring secure connections and clean contacts.
- **Firmware Update:** The teleconverter features a USB-C firmware upgrade interface. Check the VILTROX official website for the latest firmware updates and instructions if you experience compatibility or performance issues.

8. SPECIFICATIONS

Feature	Specification
Product Dimensions	1.1 x 2.36 x 2.36 inches
Item Weight	0.124 ounces
Brand	VILTROX
Lens Type	Teleconverter
Camera Lens Description	2x Of Base Lens Focal Length
Optical Structure	9 Elements in 5 Groups

Optical Structure Diagram

9 Elements of 5 Groups

Optical Structures

Its optical design fully utilizes the performance of the main lens, reducing image distortion and color difference caused by the use of the magnifying glass.

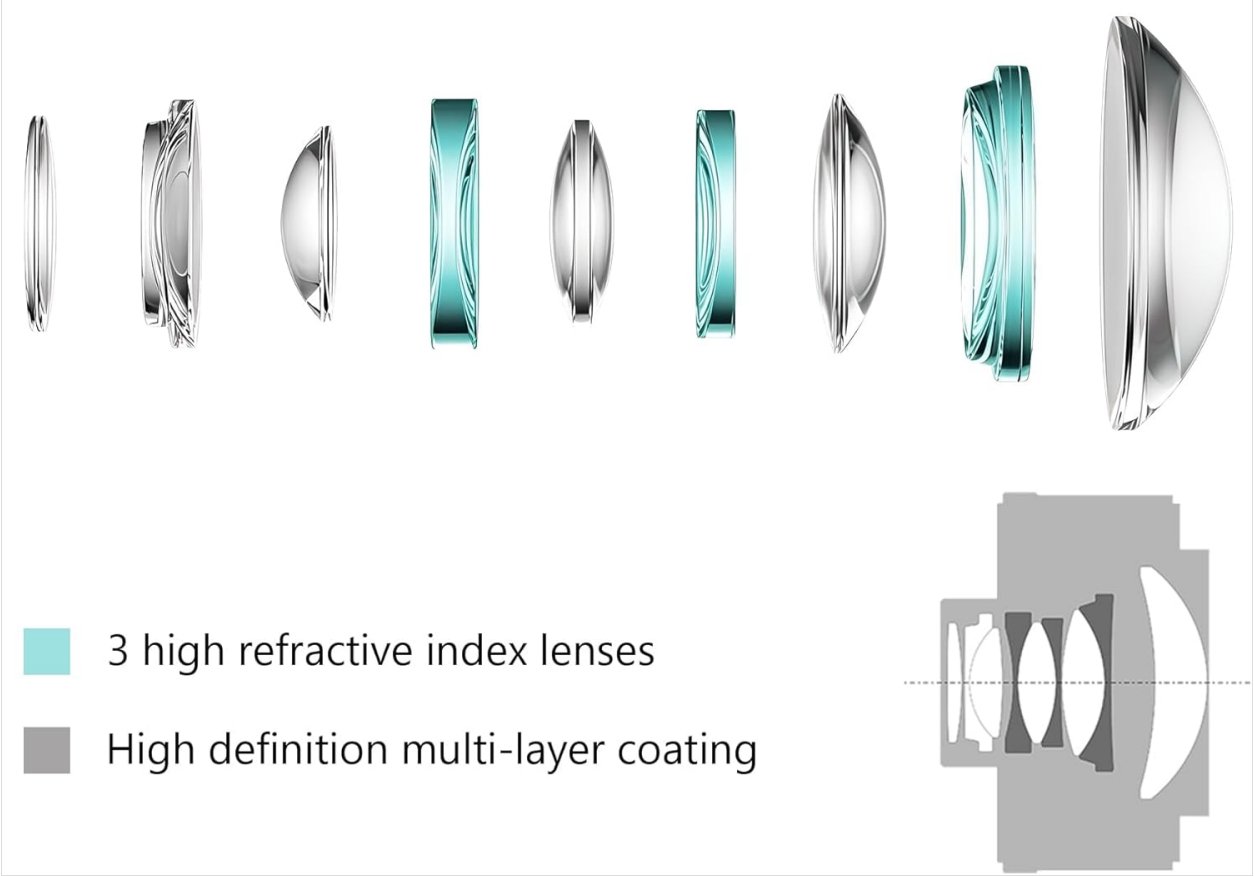


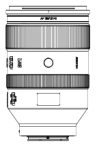
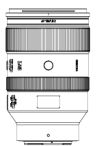


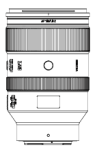
Image: A detailed diagram showing the internal optical elements and their arrangement within the teleconverter.

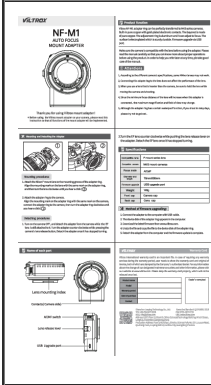
9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product

or visit the official VILTROX website. Contact information for customer service is typically available on the manufacturer's support pages.

Related Documents - TC-2.0X

<p>VILTROX AF 135/1.8 LAB FE E-mount</p>  <p>Thank you for choosing Viltrox Lens! Before mounting the lens onto your camera, please read the manual carefully to be in accordance with your Viltrox AF 135/1.8 LAB FE lens.</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</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>
<p>VILTROX AF 135/1.8 LAB Z Z-mount</p>  <p>Thank you for choosing Viltrox Lens! Before mounting the lens onto your camera, please read the manual carefully to be in accordance with your Viltrox AF 135/1.8 LAB Z lens.</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</p>	<p>Viltrox AF 135/1.8 LAB Z Lens: Manual and Specifications</p> <p>Comprehensive guide to the Viltrox AF 135/1.8 LAB Z Z-mount camera lens, covering features, operation, safety, and technical specifications.</p>
<p>VILTROX AF 135/1.8 LAB Z Z-mount</p>  <p>Thank you for choosing Viltrox Lens! Before mounting the lens onto your camera, please read the manual carefully to be in accordance with your Viltrox AF 135/1.8 LAB Z lens.</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</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 9/2.8 E E-Mount</p>  <p>Thank you for choosing Viltrox Lens! Before mounting the lens onto your camera, please read the manual carefully to be in accordance with your Viltrox AF 9/2.8 E lens.</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</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 Z-mount</p>  <p>Thank you for choosing Viltrox Lens! Before mounting the lens onto your camera, please read the manual carefully to be in accordance with your Viltrox AF 135/1.8 LAB Z lens.</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</p> <p>Shenzhen Viltrox Technology Co., Ltd. Shenzhen, China Tel: +86 755 2671 1048 Fax: +86 755 2671 1049 Email: sales@viltrox.com Website: www.viltrox.com</p>	<p>Viltrox AF 135mm f/1.8 LAB Z Z-Mount Lens Manual</p> <p>Comprehensive user manual for the Viltrox AF 135mm f/1.8 LAB Z lens with Z-mount. Learn about features, parts identification, focus lock, AB preset object distance, lens attachment/detachment, lens hood usage, technical specifications, and safety precautions.</p>



[Viltrox NF-M1 Auto Focus Mount Adapter User Manual](#)

Comprehensive user manual for the Viltrox NF-M1 Auto Focus Mount Adapter, detailing its functions, specifications, installation, and firmware update procedures for M4/3 cameras with Nikon F mount lenses.