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› VILTROX AF 90mm F2.2 Evo APS-C Lens for Fuji XF User Manual

VILTROX AF 90mm F2.2 Evo

VILTROX AF 90mm F2.2 Evo APS-C Lens User Manual

Model: AF 90mm F2.2 Evo | Brand: VILTROX

1. INTRODUCTION

Thank you for choosing the VILTROX AF 90mm F2.2 Evo APS-C Autofocus Prime Lens. This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of your new lens. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

The VILTROX AF 90mm F2.2 Evo is a high-performance autofocus prime lens designed for APS-C mirrorless cameras, specifically compatible with Fuji XF mounts. It offers a 35mm equivalent focal length of approximately 135mm, making it ideal for portraits, street photography, and cinematic telephoto scenes. Its large F2.2 aperture allows for beautiful bokeh and excellent low-light performance.

90mm APS-C Telephoto Lens

It delivers an **equivalent 135mm full-frame focal length** — a classic choice for **portrait photography**, creates natural compression and smooth bokeh.



StreetPhoto



PetPhotography



Portrait

Image 1: Examples of photography styles suitable for the VILTROX AF 90mm F2.2 Evo lens.

2. PRODUCT OVERVIEW

2.1 Key Features

- **F2.2 Large Aperture:** Provides sharp detail, smooth bokeh, and excellent low-light performance.
- **Advanced Optical Design:** Features 10 elements in 8 groups, including 2 ED (Extra-low Dispersion) and 2 HR (High Refractive) elements for superior image quality and chromatic aberration correction.
- **Rapid & Responsive Autofocus:** Equipped with an STM motor for fast, precise, and quiet autofocus performance, suitable for both photography and video.
- **0.74m Minimum Focusing Distance:** Allows for capturing intricate close-up details with a maximum magnification of 0.14X.
- **Compact & Lightweight Design:** Weighing approximately 325g (for Fuji XF mount), it offers comfortable handling and portability.

- **Intuitive Handling Controls:** Includes a customizable Fn button, AF/MF switch, and CLICK switch for aperture control.
- **Durable Construction:** Robust design with a rubber gasket mount for enhanced weather sealing.
- **USB-C Port:** For convenient firmware updates.

2.2 Lens Components

Familiarize yourself with the various parts of your VILTROX AF 90mm F2.2 Evo lens.

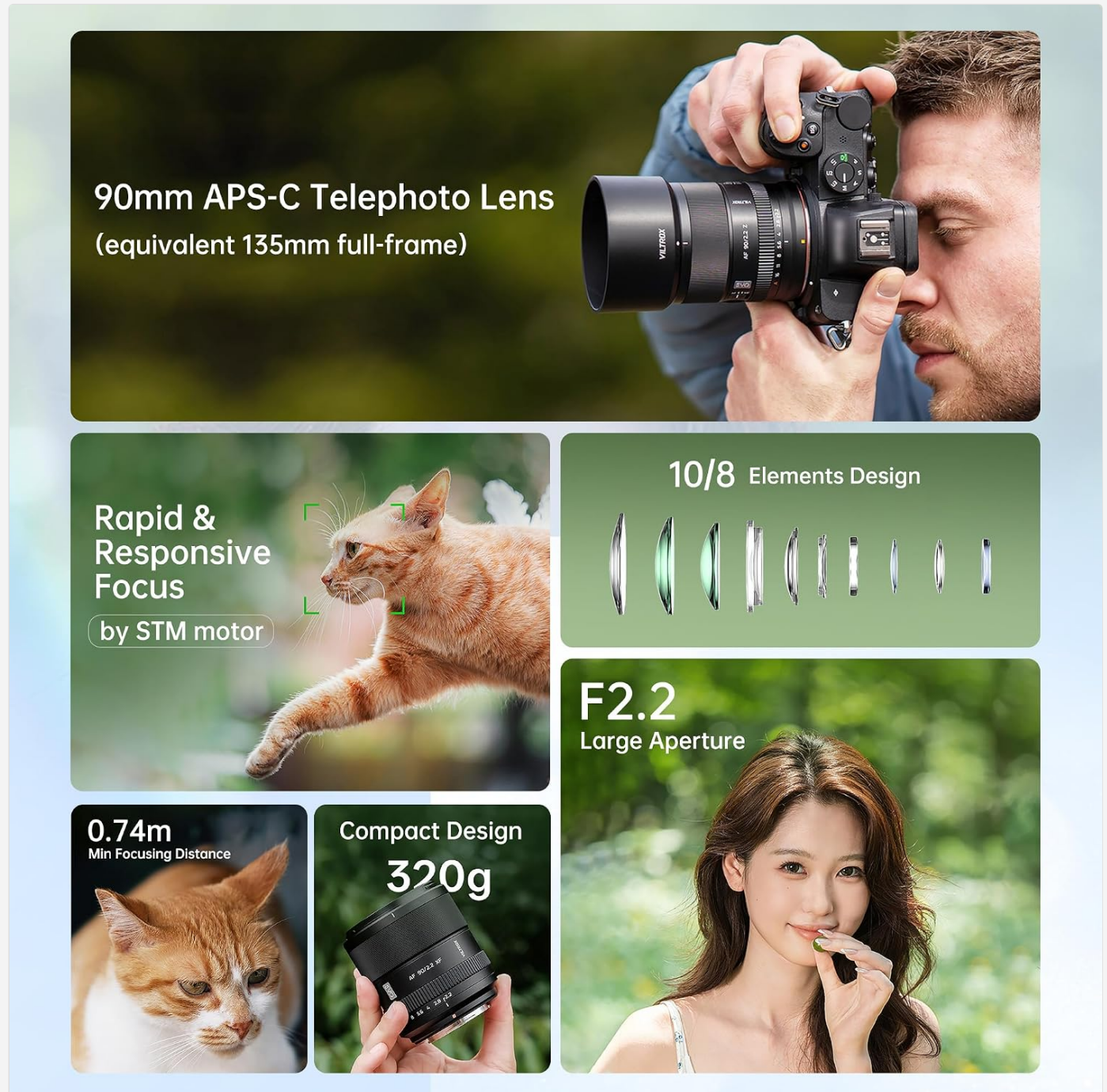


Image 2: Overview of the VILTROX AF 90mm F2.2 Evo lens highlighting its main features and design elements.

- **Front Lens Cap:** Protects the front element.
- **Lens Hood:** Reduces flare and provides additional protection.
- **Focus Ring:** For manual focusing.
- **Aperture Ring:** For adjusting the aperture.
- **Fn Button:** Customizable function button.

- **AF/MF Switch:** Toggles between autofocus and manual focus.
- **CLICK Switch:** Enables/disables click stops on the aperture ring.
- **Lens Mount:** Connects the lens to the camera body.
- **Rear Lens Cap:** Protects the rear element and mount.
- **USB-C Port:** For firmware updates.

2.3 Compact Design

320g Compact Design

The AF 90mm F2.2 EVO just over 320g, it stays comfortable for extended handheld use while delivering strong optical performance.



≈320g



Image 3: The compact and lightweight design of the VILTROX AF 90mm F2.2 Evo lens.

The AF 90mm F2.2 Evo lens weighs just over 320g, making it comfortable for extended handheld use while delivering strong optical performance.

3. SETUP

3.1 Attaching the Lens to Your Camera

1. Ensure both the camera and the lens are powered off.
2. Remove the rear lens cap from the lens and the body cap from your camera.
3. Align the mounting index (usually a white dot or line) on the lens with the corresponding index on your camera body.
4. Insert the lens into the camera mount and rotate it clockwise until it clicks into place. Do not force the lens.
5. Once attached, remove the front lens cap.

3.2 Attaching the Lens Hood

1. Align the lens hood with the front of the lens.
2. Rotate the hood clockwise until it locks securely.
3. To store, the hood can be reversed and attached to the lens.

3.3 Firmware Updates

The lens features a USB-C port for firmware updates. Visit the official VILTROX website for the latest firmware and instructions.

4. OPERATING INSTRUCTIONS

4.1 Focusing Modes (AF/MF Switch)

STM Motor

Fast & Accurate Autofocus

Powered by STM motor, it captures every vital moment with fast and accurate autofocus performance. keeping focus accurately even on moving people and pets.

Eyes AF

Face AF

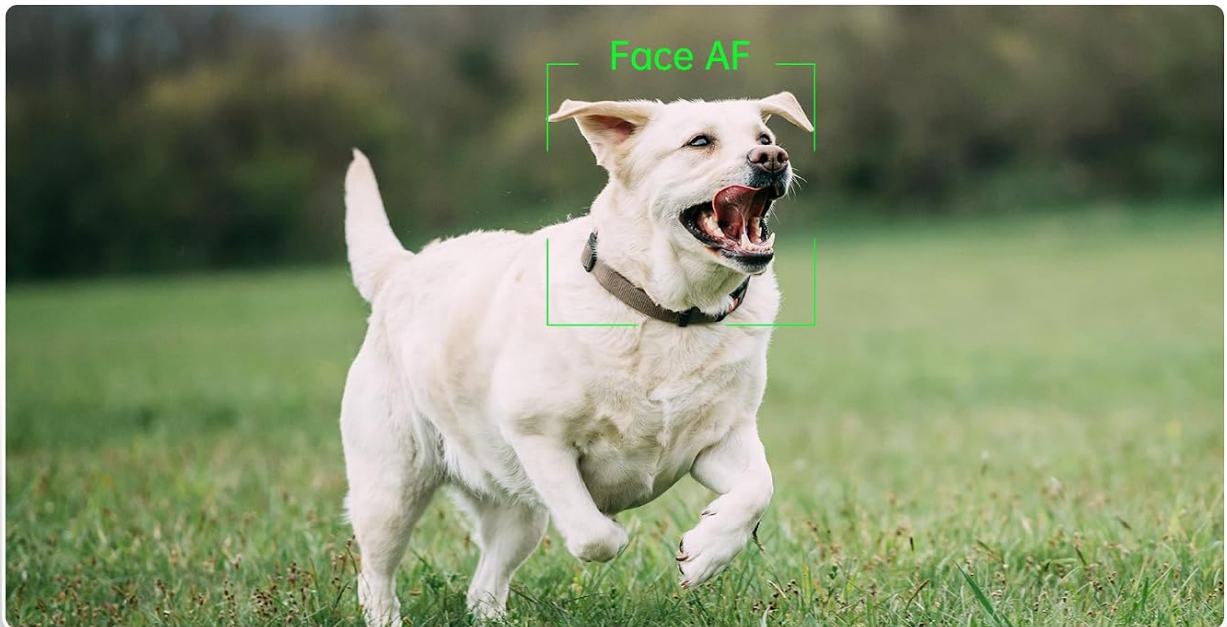


Image 4: Demonstrating the fast and accurate autofocus capabilities of the lens.

- **AF (Autofocus):** Slide the AF/MF switch to 'AF' for automatic focusing. The STM motor provides quick and precise focus, even for moving subjects.
- **MF (Manual Focus):** Slide the AF/MF switch to 'MF' for manual focusing. Rotate the focus ring on the lens to adjust focus. Your camera's focus peaking or magnification assist features can aid in precise manual focusing.

4.2 Aperture Control (F2.2 Large Aperture)

f/2.2



F2.2 Large Aperture

Bright F2.2 aperture expands versatility, delivering clean. It produces soft, natural bokeh with smooth transitions, making subjects stand out.



Image 5: Illustrating the effect of the F2.2 large aperture on depth of field and bokeh.

- The lens features an aperture ring for direct control over the F-stop.
- **CLICK Switch:** This switch allows you to enable or disable the click stops on the aperture ring.
 - When 'CLICK' is ON, the aperture ring will have distinct clicks at each F-stop, useful for photography.
 - When 'CLICK' is OFF, the aperture ring will rotate smoothly without clicks, which is beneficial for video recording to avoid audible clicks during aperture adjustments.

4.3 Minimum Focusing Distance

Immersive 0.74m MOD



Image 6: Highlighting the lens's ability to focus closely at 0.74m for detailed shots.

The lens can focus as close as 0.74 meters (2.43 feet), allowing for detailed close-up shots with a maximum magnification of 0.14X.

4.4 Customizable Fn Button

Intuitive Control

Featuring dedicated physical controls, intuitive handling and seamless operation.



Fn Button



AF/MF Switch



CLICK Switch

Image 7: Detailed view of the Fn Button, AF/MF Switch, and CLICK Switch.

The Fn button on the lens can be customized through your camera's menu settings. Refer to your camera's instruction manual for details on assigning functions to this button.

5. MAINTENANCE

5.1 Cleaning the Lens

- **Lens Elements:** Use a lens blower to remove dust. For smudges or fingerprints, use a soft, clean microfiber lens cloth with a small amount of lens cleaning fluid. Wipe gently in a circular motion from the center outwards.
- **Lens Body:** Wipe the lens body with a soft, dry cloth. Do not use organic solvents like thinner or benzene.
- **Lens Mount:** Keep the lens mount clean and free of dust. Avoid touching the electronic contacts.

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, and well-ventilated place, away from direct sunlight and high humidity.
- If storing for an extended period, place the lens in an airtight container with desiccant to prevent mold and mildew.

5.3 Handling Precautions

- Avoid exposing the lens to extreme temperatures, sudden temperature changes, or high humidity.
- Do not drop or subject the lens to strong impacts.
- Keep the lens away from strong magnetic fields.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lens not recognized by camera.	• Lens not properly attached. • Dirty electronic contacts. • Outdated camera firmware.	• Re-attach the lens securely. • Clean the lens and camera contacts with a clean, dry cloth. • Update camera firmware to the latest version.
Autofocus is slow or inaccurate.	• Low light conditions. • Subject lacks contrast. • AF/MF switch set to MF. • Outdated lens firmware.	• Use a brighter light source or manual focus. • Focus on an area with more contrast. • Set the AF/MF switch to 'AF'. • Update lens firmware via the USB-C port.
Aperture ring does not click.	CLICK switch is set to OFF.	Slide the CLICK switch to the ON position.
Image quality issues (e.g., soft images, chromatic aberration).	• Lens elements are dirty. • Improper focus. • Lens firmware issue.	• Clean lens elements carefully. • Ensure proper focus technique. • Update lens firmware.

If the problem persists after trying these solutions, please contact VILTROX customer support.

7. SPECIFICATIONS

Model Name	AF 90mm F2.2 EVO
Focal Length	90mm (135mm equivalent on 35mm full-frame)
Maximum Aperture	F2.2
Minimum Aperture	F22

Lens Format Coverage	APS-C
Lens Mount	Fuji XF
Optical Design	10 elements in 8 groups (2 ED, 2 HR)
Diaphragm Blades	9
Minimum Focusing Distance	0.74 m (2.43 ft)
Maximum Magnification	0.14X
Filter Size	58 mm
Autofocus Motor	STM + Lead Screw
Dimensions (Ø x L)	Ø69 mm x 76 mm (for XF mount)
Weight	Approx. 325 g (for XF mount)
Lens Coating	Nano Crystal Coating
Angle of View	18.6 degrees

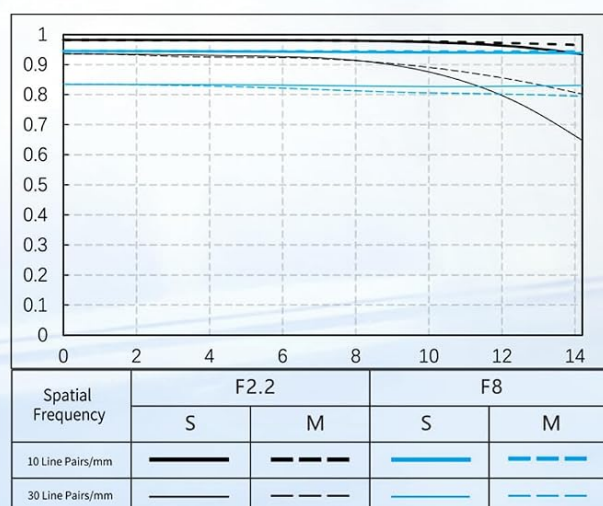
Advanced Optical Design

The AF 90mm F2.2 EVO features a new optical design. Chromatic aberration is deeply optimized, It performs reliably in backlighting, high contrast, and bright edges.



ED low-dispersion lenses

High refractive lenses



10 elements in **8** groups

2 ED low Dispersion Lenses

2 High Refractive Index Elements



Image 8: Optical design and MTF chart of the VILTROX AF 90mm F2.2 Evo lens.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

VILTROX products are covered by a limited warranty against defects in materials and workmanship. The specific warranty period and terms may vary by region. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the warranty card included with your product or visit the official VILTROX website.

8.2 Customer Support

For technical assistance, service, or inquiries regarding your VILTROX AF 90mm F2.2 Evo lens, please contact VILTROX customer support. You can find contact information on the official VILTROX website: www.viltrox.com.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question