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TTARTISAN 100mm F2.8 2X Macro

TTArtisan 100mm F2.8 2X Macro Full Frame Lens Instruction Manual

For E-Mount Mirrorless Cameras

1. INTRODUCTION

This manual provides detailed instructions for the proper use and care of your TTArtisan 100mm F2.8 2X Macro Full Frame Lens. Please read this manual thoroughly before using the lens to ensure optimal performance and longevity. This lens is designed for E-Mount mirrorless cameras, offering exceptional macro capabilities with 2X magnification.

2. PRODUCT OVERVIEW AND COMPONENTS

The TTArtisan 100mm F2.8 2X Macro lens is a precision optical instrument. Familiarize yourself with its components and included accessories.



Figure 2.1: The TTArtisan 100mm F2.8 2X Macro Lens shown with its packaging, front lens cap, rear lens cap, and cold shoe mount bracket.

The lens features a black anodized aluminum body with engraved markings for aperture and focus distance.

2.1 What's in the Box

- Lens body
- Cold Shoe Mount Bracket
- Front lens cap
- Rear lens cap

3. COMPATIBILITY

This lens is specifically designed for Sony E-Mount mirrorless cameras. Ensure your camera model is listed below for proper functionality.



Figure 3.1: Image displaying compatible Sony E-mount camera models.

3.1 Compatible Sony E-Mount Cameras

- A5000, A5100, A6000, A6100, A6300, A6400, A6500, A6600, A6700
- NEX-3, NEX-3N, NEX-5C, NEX-3R, NEX-5T, NEX-5R, NEX-5, NEX-5N, NEX-7, NEX-6, NEX-C3, NEX-F3
- ZVE-10, ZVE-10II, FX30, ZV-E1
- A7, A7II, A7III, A7IV, A7R, A7RII, A7RIII, A7RIV, A7RV, A7S, A7SII, A7SIII, A7C, A9, A9II, A1, A9III, A1II, A7C2, A7CR

4. SETUP

4.1 Attaching the Lens to Your Camera

1. Ensure your camera is powered off.
2. Remove the rear lens cap from the TTArtisan 100mm F2.8 2X Macro lens and the body cap from your camera.
3. Align the mounting index (usually a white dot) 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. Remove the front lens cap. Your lens is now ready for use.

4.2 Attaching the Cold Shoe Mount Bracket

The lens features four screw holes on its front barrel for attaching accessories like the included cold shoe mount bracket or an LED light.



Figure 4.1: The cold shoe mount bracket, designed to attach to the front of the lens for additional accessories.

1. Identify the four screw holes on the front of the lens barrel.
2. Align the cold shoe mount bracket with these holes.
3. Secure the bracket using the provided screws.
4. You can now attach compatible accessories such as ring lights or external microphones to the cold shoe.

5. OPERATING THE LENS

This is a manual focus lens. All adjustments for focus and aperture are made directly on the lens barrel.

5.1 Manual Focus

Rotate the focus ring to adjust the focus. For macro photography, precise focusing is critical. Utilize your camera's focus peaking or magnification assist features for accurate focus.

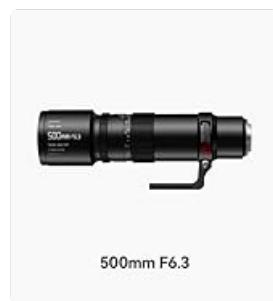


Figure 5.1: Detail of the lens showing the focus distance scale and the clicked aperture ring.

5.2 Aperture Control

The lens features a clicked aperture ring. Rotate the aperture ring to select your desired f-stop (from F2.8 to F22). The 12-blade aperture system contributes to smooth bokeh.

5.3 2X Macro Magnification

This lens offers a true 2X life-size reproduction ratio, allowing for extreme close-up photography. The minimum focusing distance is 0.25m (9.8 inches).



Figure 5.2: An example of high-resolution macro photography, showcasing the detail captured by the lens at 2X magnification.

6. OPTICAL DESIGN AND PERFORMANCE

The lens incorporates a sophisticated optical structure to deliver high image quality.

6.1 Optical Elements

The optical design consists of 14 elements in 10 groups, including 6 high-refractive elements. This configuration minimizes chromatic aberration and ensures sharpness across the frame.

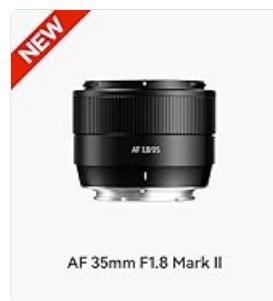


Figure 6.1: Diagram illustrating the internal optical structure of the TTArtisan 100mm F2.8 Macro lens, highlighting the high-refractive elements.

6.2 MTF Chart

The Modulation Transfer Function (MTF) chart provides an objective measure of lens performance, indicating sharpness and contrast.

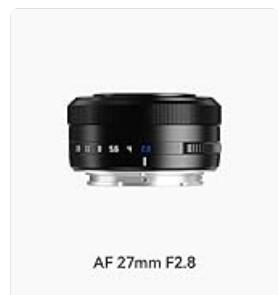


Figure 6.2: MTF chart showing the lens's resolution and contrast performance at various apertures.

7. MAINTENANCE

7.1 Cleaning the Lens

- Use a soft, lint-free cloth or a lens brush to remove dust from the lens surfaces.
- For stubborn smudges, 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.

7.2 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 extended periods, consider using a dehumidifying agent to prevent mold growth.

7.3 General Care

- Avoid exposing the lens to water or excessive moisture.
- Do not drop or subject the lens to strong impacts.
- Do not attempt to disassemble the lens, as this will void the warranty and may cause damage.

8. TROUBLESHOOTING

8.1 Image is blurry/out of focus

- Ensure the focus ring is properly adjusted for your subject distance.
- Utilize your camera's focus peaking or magnification assist for critical focus, especially in macro photography.
- Check that the lens is securely mounted to the camera body.

8.2 Dark corners (Vignetting)

Slight vignetting may be observed at certain magnification ratios, particularly at 2:1. This effect typically diminishes or disappears at a 1:1 ratio.



Figure 8.1: Example images demonstrating vignetting at 2:1 magnification and its absence at 1:1 magnification.

8.3 Lens not recognized by camera

- Ensure the lens is correctly and securely attached to the camera mount.
- As this is a manual lens, some camera functions (like EXIF data for aperture) may not be available. This is normal.
- Check your camera's settings to ensure 'Release without lens' or similar option is enabled if you encounter issues with the shutter not firing.

9. SPECIFICATIONS

Feature	Specification
Focal Length	100mm
Maximum Aperture	F2.8
Minimum Aperture	F22
Lens Mount	Sony E-Mount
Format Compatibility	Full Frame
Magnification Ratio	2X
Minimum Focusing Distance	0.25m (9.8 inches)
Optical Design	14 Elements in 10 Groups (including 6 high-refractive elements)
Diaphragm Blades	12
Filter Size	Not specified (typically 67mm based on product images)
Dimensions (Approx.)	3.9 x 2.6 x 2.6 inches (100mm x 66mm x 66mm)
Weight (Approx.)	2.68 pounds (1.22 kg)
Material	Aerospace-grade Aluminum (All-Metal Lens Body)



Figure 9.1: Diagram showing the approximate dimensions of the TTArtisan 100mm F2.8 Macro lens across different camera mounts, including E-mount.

10. WARRANTY AND SUPPORT

10.1 Warranty Information

TTArtisan products typically come with a 12-month warranty against manufacturing defects. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the official TTArtisan website or contact customer support.

10.2 Customer Support

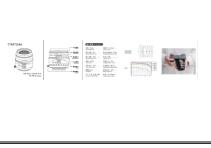
For technical assistance, troubleshooting, or service inquiries, please visit the official TTArtisan website or contact their customer support team. You can often find contact information on the product packaging or the brand's official online store.

Official TTArtisan Store: [TTArtisan Amazon Store](#)

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	TTArtisan 14mm F2.8 Lens User Manual and Specifications Comprehensive user manual for the TTArtisan 14mm F2.8 wide-angle lens, covering specifications, installation, uninstallation, camera settings, optical design, and care tips.
	TTArtisan AF 75mm F2 Autofocus Lens User Manual and Specifications Detailed specifications, installation, uninstallation, and usage tips for the TTArtisan AF 75mm F2 full-frame autofocus lens. Includes safety warnings and technical details.
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	<p>TTArtisan Tilt 35mm f1.4 APS-C Lens User Manual and Specifications</p> <p>Comprehensive guide to the TTArtisan Tilt 35mm f1.4 APS-C lens, covering installation, camera settings, specifications, optical design, and usage tips.</p>
	<p>TTArtisan 23mm f1.4 APS-C Lens: Manual, Specifications, and Usage Guide</p> <p>Explore the TTArtisan 23mm f1.4 APS-C lens with this comprehensive manual. Find detailed specifications, installation instructions, camera compatibility settings, optical design insights, MTF performance charts, safety warnings, and essential usage tips.</p>