

## TTARTISAN 40mm F2.8 APS-C Macro Lens

# TTArtisan 40mm F2.8 APS-C Macro Lens Instruction Manual

Model: 40mm F2.8 APS-C Macro Lens for Nikon Z-Mount

## 1. INTRODUCTION

This manual provides essential information for the proper use and care of your TTArtisan 40mm F2.8 APS-C Macro Lens. Please read this manual thoroughly before using the lens to ensure optimal performance and longevity.

The TTArtisan 40mm F2.8 APS-C Macro Lens is designed for close-up photography, offering a 1:1 magnification ratio and manual focus control. It is compatible with Nikon Z-Mount mirrorless cameras.

## 2. PRODUCT FEATURES

- Optical Design:** The lens features an 8 elements in 7 groups optical design, including 2 Extra Low-dispersion glasses, to enhance image quality and resolution.
- Construction:** Constructed with an all-metal body and an aviation-grade aluminum alloy bayonet for durability.
- Magnification:** Achieves a 1:1 maximum magnification ratio, allowing for detailed close-up shots.
- Minimum Focusing Distance:** Offers a minimum focusing distance of 0.17 meters.
- Aperture:** F2.8 large aperture is suitable for various lighting conditions and contributes to a shallow depth of field.
- Diaphragm:** An 11-blade diaphragm produces smooth and pleasing bokeh.
- Versatility:** Beyond macro photography, it performs well for portraits, night scenes, still life, insects, and jewelry photography.



Figure 1: TTArtisan 40mm F2.8 APS-C Macro Lens, front view with accessories.

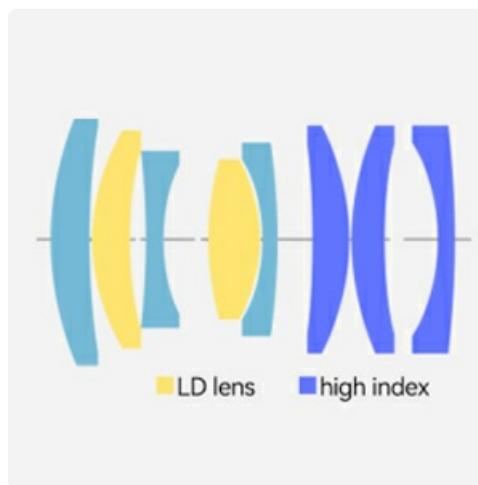


Figure 2: Diagram illustrating the internal optical structure of the lens, showing LD and high index elements.

### 3. CAMERA COMPATIBILITY

This lens is compatible with Nikon Z-Mount Mirrorless Cameras. Ensure your camera model is listed below:

- Nikon Z6

- Nikon Z7
- Nikon Z6II
- Nikon Z7II
- Nikon ZFC
- Nikon Z50



Figure 3: Visual representation of various compatible camera mounts, including Nikon Z-Mount.

## 4. LENS COMPONENTS

The TTArtisan 40mm F2.8 Macro Lens consists of the following main components:

- **Front Element:** The outermost glass element.
- **Focus Ring:** Used to manually adjust the focus.
- **Aperture Ring:** Used to manually set the aperture (f-stop).
- **Lens Mount:** The part that connects to the camera body.
- **Lens Cap:** Protects the front element when not in use.
- **Rear Cap:** Protects the rear element and mount when not attached to a camera.



Figure 4: Front view of the lens, showing the front element and aperture markings.



Figure 5: Rear view of the lens, highlighting the Nikon Z-Mount bayonet.

## 5. SETUP AND INSTALLATION

- 1. Prepare Camera:** Ensure your camera is powered off before attaching or detaching the lens.
- 2. Remove Caps:** Remove the rear lens cap from the TTArtisan 40mm F2.8 lens and the body cap from your Nikon Z-Mount camera.
- 3. Align Mounts:** Align the red dot on the lens mount with the corresponding red dot on your camera's lens mount.
- 4. Attach Lens:** Gently insert the lens into the camera mount and rotate it clockwise until it clicks into place. Do not force the lens.
- 5. Remove Front Cap:** Remove the front lens cap before use.

To detach the lens, press the lens release button on your camera body and rotate the lens counter-clockwise until it detaches.



Figure 6: The TTArtisan 40mm F2.8 lens attached to a mirrorless camera body.

## 6. OPERATING INSTRUCTIONS

### 6.1. Manual Focus

This is a manual focus lens. To achieve sharp images:

1. Set your camera to manual focus (MF) mode.
2. Look through the viewfinder or use the camera's LCD screen.
3. Rotate the focus ring on the lens until your subject appears sharp. Utilize your camera's focus peaking or magnification assist features for precise focusing, especially at 1:1 magnification.
4. The lens features a focus distance scale and depth of field scales to assist with focusing.

### 6.2. Aperture Control

The aperture is controlled via the aperture ring on the lens:

1. Rotate the aperture ring to select your desired f-stop (from F2.8 to F16).
2. A wider aperture (smaller f-number like F2.8) allows more light and creates a shallower depth of field (more background blur).
3. A narrower aperture (larger f-number like F16) allows less light and creates a deeper depth of field (more of the scene in focus).

### 6.3. Exposure Settings

Since this is a manual lens, you will need to adjust your camera's shutter speed and ISO settings to achieve correct exposure based on your chosen aperture. Many mirrorless cameras can display a live preview of exposure, or you can use the camera's light meter.

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Video 1: An overview of the TTArtisan 40mm F2.8 Macro Lens, demonstrating its features and usage.

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Video 2: Detailed information about the TTArtisan 40mm F2.8 lens, including its optical characteristics and applications.

## 7. MAINTENANCE AND CARE

- **Cleaning Lens Elements:** Use a lens blower brush to remove dust. For smudges, use a clean microfiber cloth and a small amount of lens cleaning solution. Wipe gently in a circular motion from the center outwards.
- **Cleaning Lens Body:** Use a soft, dry cloth to wipe the lens body. Avoid harsh chemicals.
- **Storage:** Store the lens in a cool, dry place away from direct sunlight and extreme temperatures. Use front and rear caps to protect the elements.
- **Avoid Moisture:** Do not expose the lens to rain or high humidity. If it gets wet, dry it immediately with a soft cloth.

## 8. TROUBLESHOOTING

- **Camera not recognizing lens:** Ensure the lens is securely mounted. Check camera settings to allow shooting without a lens (often called 'Release shutter without lens' or similar).
- **Images are blurry:** Verify that the camera is set to manual focus (MF). Use focus peaking or magnification assist for accurate focusing. Ensure adequate lighting and appropriate shutter speed to prevent camera shake.
- **Exposure issues:** Since the lens is manual, adjust shutter speed and ISO on your camera to achieve correct exposure. Use your camera's light meter as a guide.

## 9. SPECIFICATIONS

Feature	Description
Focal Length	40mm
Maximum Aperture	F2.8
Minimum Aperture	F16
Lens Mount	Nikon Z
Format Compatibility	APS-C
Angle of View	39°
Minimum Focus Distance	0.17m (6.7 inches)
Maximum Magnification	1:1
Optical Design	8 Elements in 7 Groups (including 2 ED elements)
Diaphragm Blades	11

Feature	Description
Filter Size	52mm
Weight	Approximately 371g (1.57 pounds)
Dimensions (D x L)	63mm x 77mm (Nikon Z version)



Figure 7: Comparison of lens dimensions for different mounts, including the Nikon Z version.

## Compatible

All for Mirrorless Cameras, Not for SLR Cameras

**Fuji X-mount**

X-A1, X-A10, X-A2, X-A2, X-A3, X-A5, X-A7, X-M1, X-M2, X-H1, X-T1, X-T10, X-T2, X-T20, X-T3, X-T4, X-T100, X-T200, X-T30, X-PR01, X-PR02, X-PR03, X-E1, X-E2, X-E2S, X-E3, XS10

**Canon EOS M-mount**

M1, M2, M3, M5, M6M6II, M10, M100, M50

**SONY E-mount**

A5000, A5100, A6000, A6100, A6300, A6400, A6500, A6600, NEX-3, NEX-3N, NEX-3R, NEX-5T, NEX-5R, NEX-5, NEX-5N, NEX-7, NEX5C, A7, A7II(A7M2), A7III, (A7M3), A7R, A7RII(A7RM2), A7RIII(A7RM3), A7RIV(A7M4), A7S, A7SII(A7SM2), A7SIII(A7SM3), A9

**Nikon Z-mount**

Z50, ZFC, Z6, Z6II, Z7, Z7II

**OLYMPUS M43-mount**

EPM1, EPM2, EPL1, EPL2, EPL3, EPL5, EPL6, EPL7, EPL8, EPL9, E-P1, E-P2, E-P3, E-P5, E-P6, E-M1, E-M5, E-M10, E-M10II, E-M10III, PEN-F

**Panasonic M43-mount**

G1, G2, G3, G5, G6, G7, G85, GF1, GF2, GF3, GF5, GF6, GF7, GF8, GF9, GX1, GX7, GX8, GX9, GM1, GM5, GM10, GH1, GH2, GH3, GH4, GH5

Figure 8: The TTArtisan 40mm F2.8 Macro Lens is designed to be compact and portable, weighing approximately 371g.

## 10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official TTArtisan website. Contact details for customer service are typically provided on the product packaging or the manufacturer's website.

## 11. SAMPLE IMAGES



Figure 9: Macro photograph of a bug on a leaf, showcasing the lens's detail capture.



Figure 10: Portrait photograph of a woman, demonstrating the lens's ability for subject isolation and bokeh.



Figure 11: Macro photograph of a spiderweb with a spider, highlighting intricate details.

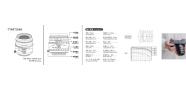
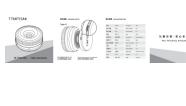
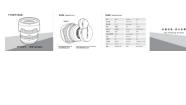


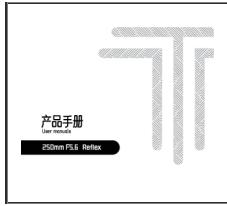
By: 猫哥 Jagger

Figure 12: Macro photograph of two bees, illustrating the lens's capability for capturing fine textures.

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## Related Documents - 40mm F2.8 APS-C Macro Lens

	<p><a href="#"><b>TTArtisan 14mm F2.8 Lens User Manual and Specifications</b></a></p> <p>Comprehensive user manual for the TTArtisan 14mm F2.8 wide-angle lens, covering specifications, installation, uninstallation, camera settings, optical design, and care tips.</p>
	<p><a href="#"><b>TTArtisan Tilt 35mm f1.4 APS-C Lens User Manual and Specifications</b></a></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><a href="#"><b>TTARTISAN AF 14mm f3.5 Lens User Manual &amp; Specifications</b></a></p> <p>Comprehensive user manual and technical specifications for the TTARTISAN AF 14mm f3.5 APS-C prime camera lens. Includes installation, safety, and care instructions.</p>
	<p><a href="#"><b>TTArtisan AF 75mm F2 Autofocus Lens User Manual and Specifications</b></a></p> <p>Detailed specifications, installation, uninstallation, and usage tips for the TTArtisan AF 75mm F2 full-frame autofocus lens. Includes safety warnings and technical details.</p>
	<p><a href="#"><b>TTArtisan 23mm f1.4 APS-C Lens: Manual, Specifications, and Usage Guide</b></a></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>



## [TTArtisan 250mm F5.6 Reflex Lens User Manual and Specifications](#)

Comprehensive user manual for the TTArtisan 250mm F5.6 Reflex lens, covering specifications, M42 mount information, MTF charts, optical design, safety warnings, and usage tips. Features full-frame compatibility and manual focus.