TTARTISAN 500mm F6.3

TTArtisan 500mm F6.3 Telephoto Lens Instruction Manual

Model: 500mm F6.3

1. Introduction

Thank you for purchasing the TTArtisan 500mm F6.3 Telephoto Lens. This manual provides essential information for the safe and effective use of your new lens. Please read it thoroughly before use and keep it for future reference.

Figure 1: TTArtisan 500mm F6.3 Telephoto Lens. This image shows the full length of the black telephoto lens with its various rings and markings.

Key Features:

- **500mm Focal Length:** A powerful telephoto lens designed for capturing distant subjects.
- **F6.3 Large Aperture:** Allows for good light gathering capabilities, suitable for various lighting conditions.
- **Full Frame Compatibility:** Designed for full-frame mirrorless cameras, compatible with Sony E-Mount.
- **ED (Extra-low Dispersion) Glass:** Incorporates two ED glass elements to reduce chromatic aberration and enhance image quality.
- **Manual Focus:** Provides precise control over focusing.
- **Tripod Mount Ring:** Integrated for stable mounting on tripods, essential for a lens of this size and focal

length.

- **Multi-Layer Coatings:** Features MC Multi-Layer Coatings for improved light transmission and reduced flares.

2. Package Contents

Before use, please ensure all items are present in the package:

- TTArtisan 500mm F6.3 Telephoto Lens
- Front Lens Cap
- Rear Lens Cap
- Lens Hood (Metal)
- Instruction Manual

Figure 2: Package contents including the lens, caps, and hood. The image displays the lens, front and rear caps, a metal lens hood, and a small instruction booklet next to a grey product box.

3. Setup

Attaching the Lens to Your Camera:

1. Ensure your camera is turned off.
2. Remove the rear lens cap from the lens and the body cap from your camera.
3. Align the mounting index on the lens with the corresponding index on your camera body.
4. Gently insert the lens into the camera mount and rotate it clockwise until it clicks into place. Do not force the lens.
5. Attach the lens hood by aligning it with the front of the lens and twisting until secure.

Using the Tripod Mount Ring:

The TTArtisan 500mm F6.3 lens is equipped with a tripod mount ring for enhanced stability, especially given its size and weight. This ring helps balance the camera and lens assembly on a tripod or monopod.

1. Loosen the locking knob on the tripod mount ring to rotate the lens for optimal positioning.
2. Attach your tripod or monopod quick-release plate to the tripod mount ring's screw hole.
3. Securely fasten the quick-release plate.
4. Tighten the locking knob on the tripod mount ring once the desired orientation is achieved.

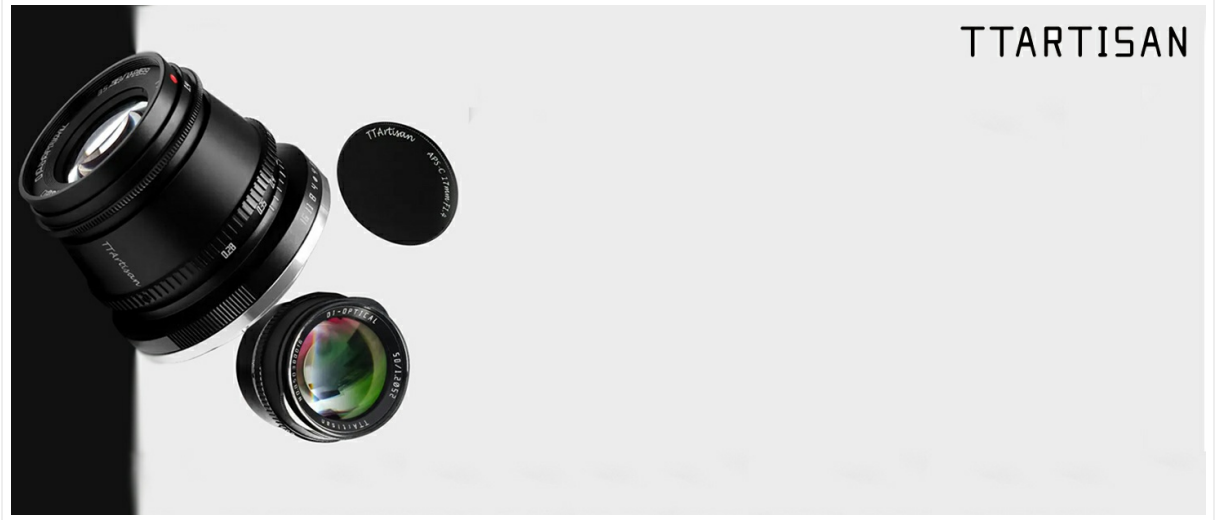

Figure 3: The 500mm F6.3 lens attached to a camera body, resting on a tripod via its integrated tripod mount ring. This illustrates the proper way to support the lens for stability.

4. Operating the Lens

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 your camera's live view screen.
3. Rotate the focus ring on the lens until your subject appears sharp. Utilize your camera's focus peaking or magnification features for precise focusing.

Aperture Control:

The lens features a manual aperture ring. Rotate the aperture ring to select your desired f-stop (from F6.3 to F32). A wider aperture (smaller f-number) allows more light and creates shallower depth of field, while a narrower aperture (larger f-number) allows less light and creates greater depth of field.

Photography Applications:

- **Deep-Sky Astrophotography:** The F6.3 aperture and ED glass elements are beneficial for capturing celestial objects.
- **Distant Subjects:** Ideal for photographing subjects that are far away, such as wildlife, sports, and airplanes.
- **Humanist Photography:** Allows photographers to maintain a comfortable distance from subjects while capturing candid moments.
- **Simplified Composition:** The telephoto compression helps isolate subjects and simplify backgrounds.

Figure 4: Overview of lens features including ED glass, multi-layer coatings, focus gear ring, and tripod mount ring. This collage highlights key optical and mechanical aspects of the lens.

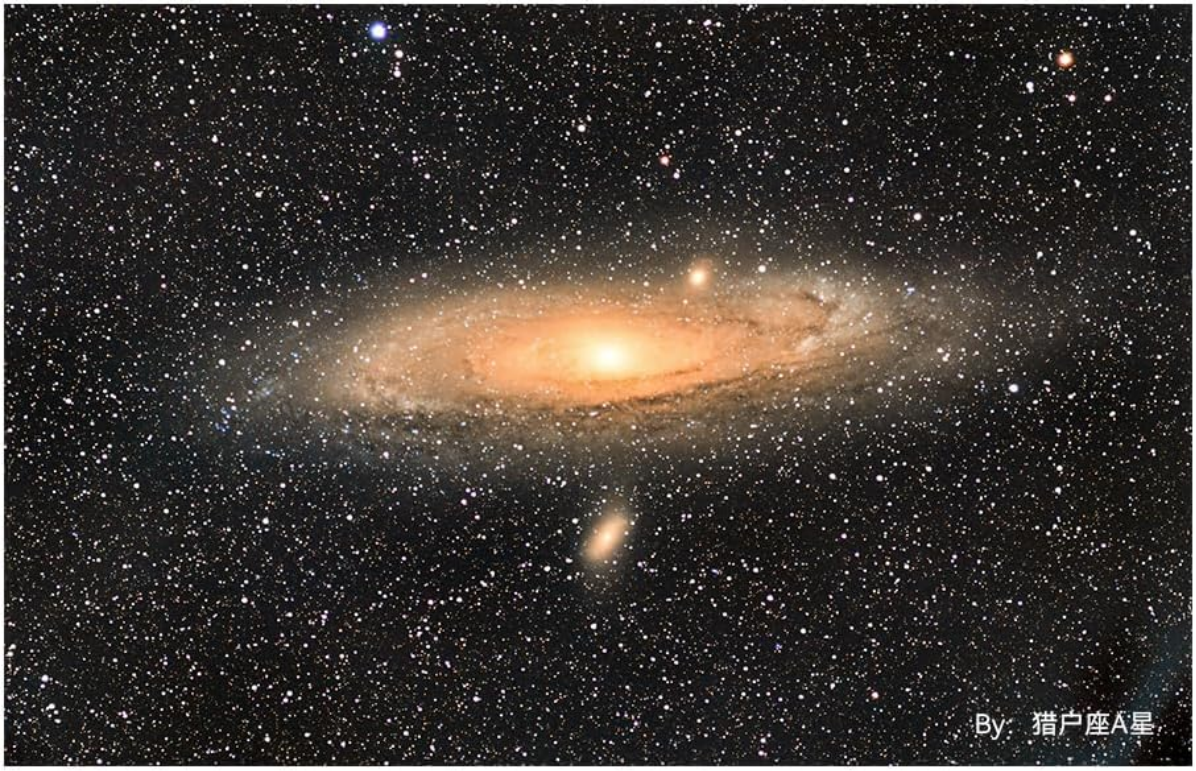

Figure 5: An example of deep-sky astrophotography, showcasing a galaxy captured with the 500mm F6.3 lens. The image demonstrates the lens's capability for capturing distant celestial objects.

“Get Closer” to the World

The telephoto lens is ideal for photographing distant subjects that you cannot get closer to.
Such as airplanes, sports and wildlife, etc.

Figure 6: A telephoto shot of an airplane taking off, illustrating the lens's ability to 'get closer' to distant subjects. This image highlights the lens's utility for capturing subjects from afar.

Figure 7: A photograph of a person riding a motorcycle on a winding road, demonstrating the lens's suitability for humanist photography by maintaining distance. This image shows how the lens can capture subjects without intrusion.

Figure 8: Two images demonstrating simplified composition: one of the sun behind a ferris wheel, and another of the sun behind a pagoda. These examples illustrate how the telephoto lens can isolate subjects and create impactful compositions.

Vignetting:

The E-mount version of this lens may exhibit slight vignetting on full-frame cameras at F6.3. Vignetting is typically reduced or eliminated at narrower apertures (e.g., F22). No vignetting is expected for Z, RF, and L-mount versions.

Figure 9: A comparison showing slight vignetting at F6.3 on an E-mount camera versus no vignetting at F22. The image displays two identical scenes, one with darker corners (vignetting) and one without, illustrating the effect of aperture on vignetting.

5. Maintenance

Proper care and maintenance will ensure the longevity and performance of your lens.

- **Cleaning the Lens:** Use a soft, lint-free cloth or a lens brush to remove dust. For smudges, use a specialized lens cleaning solution and a microfiber cloth. Avoid touching the lens elements directly with your fingers.
- **Storage:** Store the lens in a cool, dry place away from direct sunlight and extreme temperatures. Use the front and rear lens caps when not in use to protect the elements.
- **Handling:** Always handle the lens carefully. Avoid dropping it or subjecting it to strong impacts.
- **Water Resistance:** This lens is **not water resistant**. Avoid exposure to rain, splashes, or high humidity.

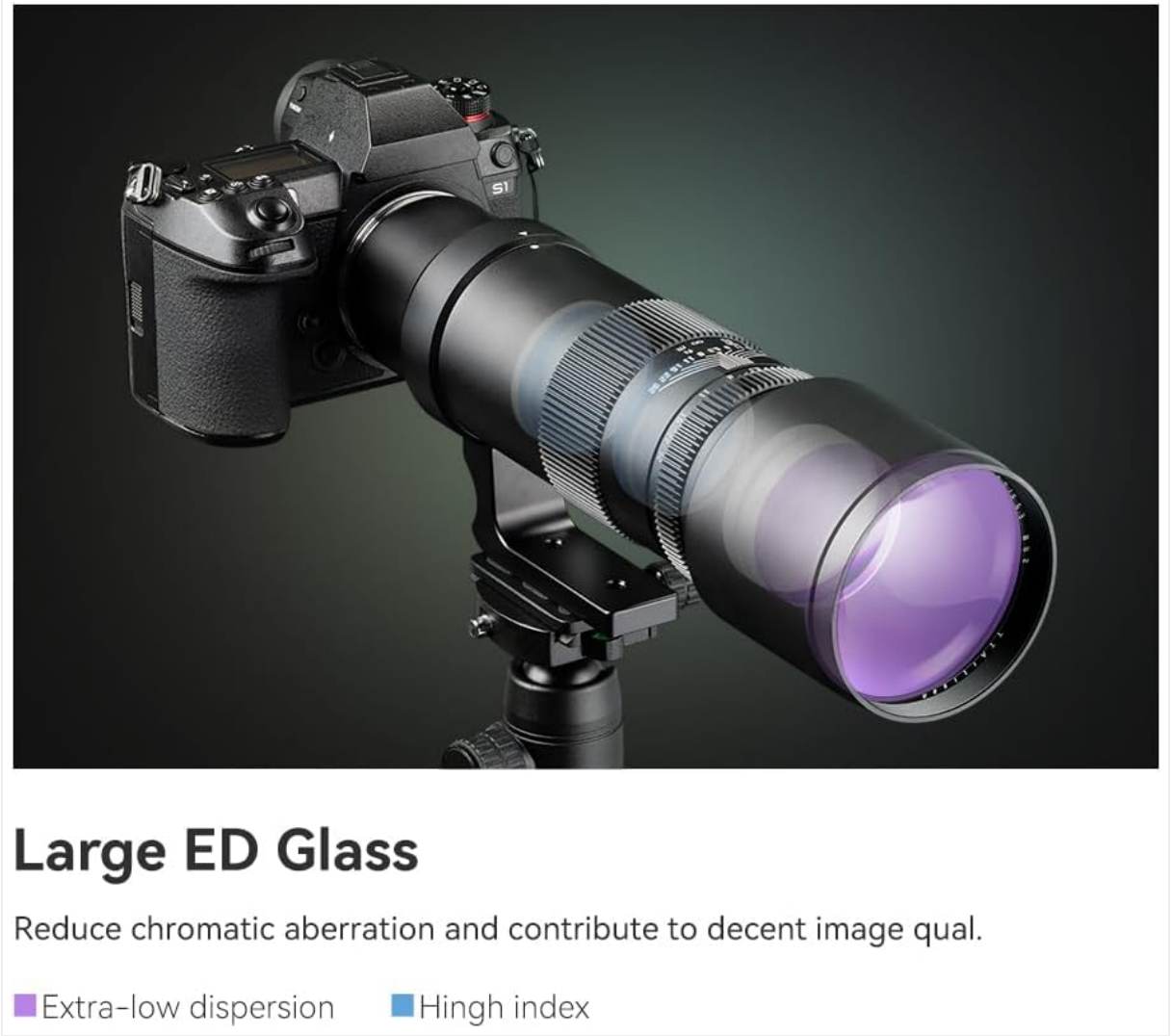

Figure 10: A close-up view of the lens's front element, highlighting the large ED glass. This image emphasizes the optical quality and the importance of keeping the lens elements clean.

6. Troubleshooting

If you encounter issues with your lens, consider the following:

- **Unsharp Images:** Ensure your camera is set to manual focus (MF) mode and that you are carefully rotating the focus ring to achieve critical focus. Use focus peaking or magnification aids on your camera.
- **Dark Corners (Vignetting):** This is normal at wider apertures (F6.3) on full-frame E-mount cameras. Try stopping down the aperture (e.g., to F11 or F22) to reduce or eliminate vignetting.
- **Lens Not Mounting:** Ensure the lens is correctly aligned with the camera mount and rotated until it clicks. Do not force it. Check for any obstructions on the mount.
- **Dust on Images:** Clean the front and rear elements of the lens as described in the Maintenance section. If dust persists, it may be on your camera's sensor, which requires professional cleaning.

7. Specifications

Brand	TTARTISAN
Model Name	TTARTISAN 500mm F6.3 Full Frame Telephoto Manual Focus Lens
Focal Length	500mm

Maximum Aperture	F6.3
Minimum Aperture	F32
Lens Design	Prime
Optical Design	8 Elements in 5 Groups (including 2 ED glass elements)
Diaphragm Blades	12
Focus Type	Manual Focus
Closest Focusing Distance	3.3m
Filter Size	82mm
Compatible Mountings	Sony E (also available for R/Z/L/XF/EF/F/GFX mounts)
Angle of View	5°
Lens Coating	Nano Crystal Coating
Weight	Approx. 1603-1617g
Color	Black

8. Warranty and Support

Warranty Information:

This TTArtisan lens comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship. It does not cover damage caused by misuse, accident, unauthorized modification, or normal wear and tear.
Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, warranty service, or any questions regarding your TTArtisan 500mm F6.3 lens, please contact your retailer or visit the official TTArtisan website for support information.