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Tamron AF061N700

Tamron Auto Focus 28-300mm f/3.5-6.3 XR Di LD Aspherical (IF) Macro Ultra Zoom Lens User Manual

Model: AF061N700

1. Introduction

This user manual provides comprehensive instructions for the Tamron Auto Focus 28-300mm f/3.5-6.3 XR Di LD Aspherical (IF) Macro Ultra Zoom Lens. Please read this manual thoroughly before using your lens to ensure proper operation and to maximize its performance and longevity.

2. Product Overview

The Tamron 28-300mm f/3.5-6.3 XR Di LD Aspherical (IF) Macro Ultra Zoom Lens is a versatile, high-power zoom lens designed for both full-frame and APS-C format Nikon Digital SLR Cameras. It offers an 11x zoom ratio, covering a wide range from wide-angle to super-telephoto, and includes macro capabilities for close-up photography.

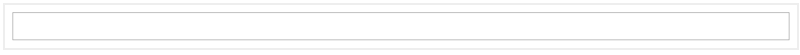

Figure 2.1: Front view of the Tamron 28-300mm lens, showing the focus and zoom rings, and lens cap.



Figure 2.2: The Tamron 28-300mm lens fully extended, illustrating its telephoto reach and barrel markings.



Figure 2.3: Angled view of the Tamron 28-300mm lens, highlighting its compact design and key features like XR, LD, and IF markings.

3. Features and Technologies

- **Di II Design:** Optimized for use with both digital and film cameras, ensuring high image quality across platforms. When used with APS-C size digital SLR cameras, the lens provides an angle of view equivalent to approximately 44-465mm.
- **Low Dispersion (LD) Glass:** Incorporates LD glass elements to significantly reduce chromatic aberration, enhancing image sharpness and color accuracy, particularly at long focal lengths.

- **Anomalous Dispersion (AD) Glass:** Special optical glass for more precise control of chromatic aberrations, improving overall imaging performance and reducing lateral chromatic aberration at wide-angle settings.
- **Extra Refractive Index (XR) Glass:** Allows for a shorter, smaller-diameter, and lighter lens design without compromising lens speed or image quality. XR glass enhances optical power distribution, enabling compact designs with greater zoom ranges.
- **Aspherical Elements (ASL):** Utilizes hybrid aspherical lens elements to achieve superior image quality and compactness, effectively eliminating spherical aberration and image distortion across the zoom range.
- **Internal Focus (IF):** Provides practical benefits such as a non-rotating front filter ring, predictable handling (lens length does not change during focusing), and a closer minimum focusing distance. IF also improves optical performance by minimizing illumination loss.
- **Zoom Lock (ZL):** A mechanical feature that prevents undesired extension of the lens barrel when carrying the camera/lens unit, ensuring convenience and protection.
- **Macro Capability:** Allows for close-up photography with a minimum focusing distance of 0.49m (19.3 inches) and a maximum magnification ratio of 1:2.9.

4. Setup

4.1 Attaching the Lens

1. Ensure your camera is turned off.
2. Remove the rear lens cap and the camera body cap.
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's lens mount and rotate it clockwise (for Nikon F-mount) 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 Detaching the Lens

1. Ensure your camera is turned off.
2. Press and hold the lens release button on your camera body.
3. While holding the button, rotate the lens counter-clockwise until it detaches from the camera body.
4. Immediately attach the rear lens cap to the lens and the body cap to the camera to protect the internal components from dust and damage.

5. Operating Instructions

5.1 Auto Focus (AF) Operation

The Tamron 28-300mm lens supports auto-focusing, which is activated when the camera's shutter button is depressed halfway. While the camera attempts to focus accurately, understanding and selecting the appropriate auto-focus mode can significantly improve your results.

▶ **Watch video online**

Video 5.1: An instructional video demonstrating auto-focus modes and how to select focus points on a DSLR camera. This video highlights the difference between single shot and continuous auto-focus modes, and the importance of choosing the correct focus point for your subject.

Auto-Focus Modes:

- **Single Shot Mode:**
  - Focuses on a specific point.
  - Takes a picture only when the selected point is in focus.
  - Ideal for stationary subjects where precise focus is required.
- **Continuous Mode (or Servo):**
  - Perfect for following action.
  - Continuously refocuses on moving objects, ensuring they remain sharp as they move within the frame.
  - Recommended for sports, wildlife, or any fast-moving subjects.

You can typically change the auto-focus mode through your camera's menu settings. Refer to your camera's instruction manual for specific steps.

5.2 Manual Focus (MF) Operation

While auto-focus is convenient, there are situations where manual focus provides greater control. Your Tamron lens features a switch to toggle between Auto Focus (AF) and Manual Focus (MF) modes. Locate the AF/MF switch on the lens barrel and slide it to the 'MF' position to engage manual focus.
In manual focus mode, you will rotate the focus ring on the lens to achieve sharp focus. Use your camera's viewfinder or Live View display to assist with focusing. Some cameras offer focus peaking or magnification features to aid in precise manual focusing.

5.3 Zoom Operation

To adjust the focal length, rotate the zoom ring on the lens. The focal length markings (e.g., 28mm, 50mm, 100mm, 200mm, 300mm) are indicated on the lens barrel. Extend the lens to increase the focal length (telephoto) and retract it to decrease the focal length (wide-angle).
The Zoom Lock (ZL) switch can be used to prevent the lens barrel from extending unintentionally, especially when carrying the camera with the lens pointed downwards. Engage the ZL switch when the lens is at its most retracted position (28mm) for secure transport.

6. Maintenance

6.1 Cleaning the Lens

- Always use a lens blower or soft brush to remove dust and loose particles from the lens surface before wiping.
- For smudges or fingerprints, use a clean, soft microfiber lens cloth. Breathe lightly on the lens surface to create a slight mist before wiping, or use a small amount of lens cleaning solution applied to the cloth (never directly to the lens).
- Clean the lens body with a soft, dry cloth. Avoid using harsh chemicals or solvents.

6.2 Storage

- When not in use, always attach both front and rear lens caps.
- Store the lens in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, consider using a dehumidifying cabinet or silica gel packets to prevent mold and fungus growth.

7. Troubleshooting

Problem	Possible Cause	Solution
Lens not focusing (AF)	Lens is set to MF; insufficient light; subject lacks contrast.	Switch lens to AF; use flash or brighter lighting; focus on an area with more contrast.
Images are blurry/soft	Incorrect focus; camera shake; dirty lens elements.	Ensure proper focus; use a faster shutter speed or tripod; clean lens surfaces.
Lens barrel extends unintentionally	Zoom Lock (ZL) is disengaged or not present.	Engage the ZL switch when carrying the lens.
Lens not attaching to camera	Incorrect alignment; debris on mount.	Re-align mounting indexes; ensure mount is clean and free of obstructions.

8. Specifications

Feature	Detail
Product Dimensions	3.5 x 2 x 2 inches
Item Weight	1.25 pounds
ASIN	B00066EK4A
Item Model Number	AF061N700
Manufacturer	Tamron
Brand	Tamron
Focal Length Description	28-300 millimeters
Lens Type	Macro
Compatible Mountings	Nikon F

9. Warranty and Support

For warranty information and customer support, please refer to the official Tamron website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.
Legal Disclaimer: No refunds.

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