Tamron AFA056S700

Tamron 70-180mm F/2.8 Di III VXD Lens Instruction Manual

Model: AFA056S700

Brand: Tamron

1. Introduction

The Tamron 70-180mm F/2.8 Di III VXD (Model A056) is a large aperture telephoto zoom lens designed for Sony E-mount full-frame mirrorless cameras, also compatible with APS-C mirrorless cameras. It delivers superb performance with a high-speed F/2.8 aperture across the entire zoom range, all within a lightweight and compact package (5.9" length at 70mm, 28.6 oz weight). Utilizing special lens elements, it achieves excellent optical performance from center to edge. With a short Minimum Object Distance (MOD) of 33.5", it expands photographic expression possibilities. The newly developed VXD (Voice-coil eXtreme-torque Drive) linear motor focus mechanism ensures high-speed and high-precision autofocus for both stills and video. This lens allows for a light and long shooting experience.

2. Product Features

- **Compact and Lightweight:** World's lightest and most compact in its class of fast telephoto zooms for Sony full-frame mirrorless cameras.
- **High-Speed Autofocus:** Features the VXD (Voice-coil eXtreme-torque Drive) linear motor focus mechanism for high-speed and high-precision autofocus performance.
- **Superior Optical Design:** Achieves uncompromised image quality from center to edge across the zoom range.
- **Advanced Coatings:** Moisture-Resistant Construction and Fluorine Coating on the front element repel water and oil, enhancing durability and ease of cleaning.
- **Zoom Lock Switch:** Prevents unwanted barrel extension during transport.
- **Camera-Based Firmware Updates:** Supports lens unit firmware updates directly via the camera body.
- **Close-Up Capability:** Short Minimum Object Distance (MOD) of 33.5" (0.85m) at the wide end and 37.4" (0.95m) at the telephoto end for creative close-up shots.

3. Package Contents

Ensure all items are present in the box:

- Tamron 70-180mm F/2.8 Di III VXD Lens
- Front Lens Cap
- Rear Lens Cap
- Lens Hood

4. Parts of the Lens

Familiarize yourself with the key components of your Tamron 70-180mm lens.

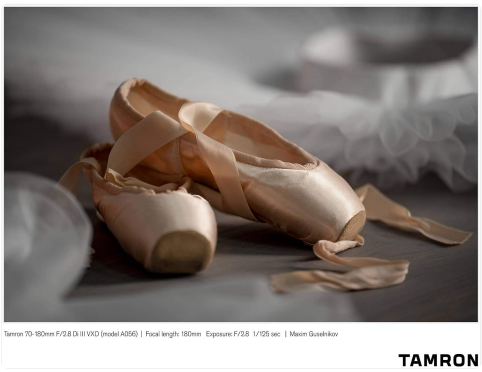


Figure 4.1: Side view of the lens with zoom ring, focus ring, and lock switch.



Figure 4.2: Front element of the lens.



Figure 4.3: Rear element and E-mount of the

lens.

5. Setup

To attach the lens to your Sony E-mount camera:

1. Remove the rear lens cap from the Tamron lens and the body cap from your camera.
2. Align the mounting index (white dot) on the lens barrel with the mounting index on your camera body.
3. Insert the lens into the camera mount and rotate it clockwise until it clicks into place.
4. Remove the front lens cap.

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



Figure 5.1: Lens mounted on a Sony mirrorless camera.

6. Operating the Lens

The Tamron 70-180mm F/2.8 Di III VXD lens offers intuitive controls for optimal shooting.

- **Zoom Ring:** Rotate the zoom ring to adjust the focal length between 70mm and 180mm. The lens barrel extends when zooming towards the telephoto end.
- **Focus Ring:** In manual focus (MF) mode, rotate the focus ring to adjust focus. In autofocus (AF) mode, the VXD linear motor provides fast and precise focusing. This lens is compatible with Sony's Fast Hybrid AF system and Eye AF function.
- **Zoom Lock Switch:** Use the LOCK switch to secure the lens at the 70mm position, preventing accidental extension during transport or when carrying the camera.

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Video 6.1: Official Tamron product video showcasing the 70-180mm F/2.8 Di III VXD lens features and capabilities.

7. Optical Performance

The Tamron 70-180mm F/2.8 Di III VXD lens is engineered for excellent optical performance. Its design,

incorporating special lens elements, ensures high image quality from the center to the edges of the frame. The fast F/2.8 constant aperture provides beautiful background blur (bokeh) and allows for shooting in challenging low-light conditions with faster shutter speeds.

8. Maintenance and Care

- **Cleaning:** Use a soft, clean cloth to wipe dust and smudges from the lens surface. For stubborn marks, use a lens cleaning solution and a microfiber cloth. The fluorine coating on the front element makes cleaning easier.
- **Storage:** Store the lens in a cool, dry place away from direct sunlight and extreme temperatures. Use the front and rear lens caps to protect the glass elements when not in use.
- **Moisture Protection:** The lens features moisture-resistant construction, offering protection against light rain and splashes. However, it is not waterproof; avoid exposing it to heavy rain or submerging it in water.
- **Handling:** Avoid dropping or subjecting the lens to strong impacts.

9. Troubleshooting

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

- **Autofocus not working:** Ensure the lens is securely mounted to the camera. Check your camera's focus mode settings (AF/MF). Clean the lens contacts on both the lens and camera body.
- **Image blur:** Verify that your shutter speed is appropriate for the lighting conditions and focal length. While the lens relies on in-camera stabilization, excessive camera shake can still lead to blur. Check your camera's image stabilization settings.
- **Lens not recognized by camera:** Detach and reattach the lens, ensuring a firm connection. Clean the electrical contacts on both the lens and camera body. Ensure your camera's firmware is up to date.
- **Zoom ring stuck:** Check if the Zoom Lock switch is engaged. Disengage it to allow free movement of the zoom ring.

If problems persist, consult your camera's instruction manual or contact Tamron customer support.

10. Specifications

Feature	Detail
Product Dimensions	5.9 x 3.18 x 3.18 inches
Item Weight	1.79 pounds
ASIN	B086Q57BVY
Item model number	AFA056S700
Date First Available	April 2, 2020
Manufacturer	Tamron
Brand	Tamron
Focal Length Description	70-180 Millimeters
Lens Type	Telephoto

Feature	Detail
Compatible Mountings	Sony E
Camera Lens Description	Tamron 70-180mm F/2.8 Di III VXD for Sony Full Frame/APS-C E-Mount, Black

11. Warranty and Support

For warranty information, product registration, or technical support, please refer to the official Tamron website or contact Tamron customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

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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.

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