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> Tamron SP 90mm F/2.8 Di VC USD 1:1 Macro Lens for Canon Cameras - Instruction Manual

Tamron AFF017C700

Tamron SP 90mm F/2.8 Di VC USD 1:1 Macro Lens for Canon Cameras

Model: AFF017C700 | Brand: Tamron

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Tamron SP 90mm F/2.8 Di VC USD 1:1 Macro Lens. This high-performance macro lens is designed for Canon cameras, offering exceptional optical quality and advanced features for detailed close-up photography and versatile general-purpose use.

Key features include Vibration Compensation (VC) with XY-Shift compensation for improved image stabilization, moisture-proof and dust-resistant construction, and advanced coating technologies to reduce flare and ghosting.

2. SAFETY INFORMATION

- Do not look at the sun or strong light sources through the lens, as this can cause permanent eye damage.
- Keep the lens away from direct sunlight when not in use to prevent fire hazards.
- Avoid dropping or subjecting the lens to strong impacts.
- Do not attempt to disassemble or modify the lens. Repairs should only be performed by authorized service personnel.
- Keep out of reach of children.

3. PARTS IDENTIFICATION

Familiarize yourself with the various parts of your Tamron SP 90mm F/2.8 Di VC USD 1:1 Macro Lens:





Figure 1: Overview of the Tamron SP 90mm F/2.8 Di VC USD 1:1 Macro Lens.

1. **Focus Ring:** Used for manual focusing.
2. **Focus Distance Window:** Displays the current focus distance in feet (ft) and meters (m).

3. **Focus Limiter Switch:** Limits the autofocus range to improve focusing speed. Options include:
 - **FULL:** Allows focusing across the entire range (0.3m to infinity).
 - **0.5m - ∞:** Limits focus to distances from 0.5 meters to infinity.
 - **0.3m - 0.5m:** Limits focus to distances between 0.3 meters and 0.5 meters (ideal for close-up macro).
4. **AF/MF Switch:** Toggles between Autofocus (AF) and Manual Focus (MF) modes.
5. **VC (Vibration Compensation) Switch:** Turns the image stabilization function ON or OFF.
6. **Lens Mount Index:** Alignment mark for attaching the lens to the camera body.
7. **Lens Hood Mount:** Area for attaching the dedicated lens hood.
8. **Filter Thread:** For attaching filters (Ø62mm).

4. SETUP

4.1 Attaching the Lens

1. Remove the rear lens cap and the camera body cap.
2. Align the red dot on the lens barrel (Lens Mount Index) with the corresponding red dot on your Canon camera body.
3. Insert the lens into the camera mount and turn it clockwise until it clicks into place.

4.2 Detaching the Lens

1. While holding down the lens release button on the camera body, turn the lens counter-clockwise until it stops.
2. Remove the lens from the camera mount.
3. Attach the front and rear lens caps to protect the lens elements.

4.3 Attaching the Lens Hood

Align the red dot on the lens hood with the white dot on the lens barrel. Push the hood onto the lens and turn it clockwise until it clicks into place. To reverse, turn counter-clockwise while pressing the release button on the hood.

5. OPERATING THE LENS

5.1 Autofocus (AF) and Manual Focus (MF)

- Set the **AF/MF switch** to **AF** for automatic focusing. The camera will focus when the shutter button is half-pressed.
- Set the **AF/MF switch** to **MF** for manual focusing. Rotate the **Focus Ring** to adjust focus. This lens features Full-Time Manual Focus (FTM), allowing manual adjustment even in AF mode without switching.

5.2 Vibration Compensation (VC)

- Set the **VC switch** to **ON** to activate image stabilization. This helps reduce blur caused by camera shake, especially in low light or when shooting handheld.
- Set the **VC switch** to **OFF** when using a tripod or in situations where stabilization is not required.

5.3 Focus Limiter

Use the **Focus Limiter Switch** to optimize autofocus performance based on your shooting distance:

- For general photography, set to **FULL**.
- For subjects further than 0.5 meters, set to **0.5m - ∞**.
- For extreme close-up macro shots (0.3m to 0.5m), set to **0.3m - 0.5m**. This prevents the lens from hunting for focus

across its entire range, speeding up acquisition.

5.4 Macro Photography (1:1 Magnification)

This lens offers true 1:1 life-size macro magnification, allowing you to capture intricate details of small subjects. For best results in macro photography:

- Consider using a tripod to minimize camera shake, even with VC enabled, for critical sharpness.
- Utilize the **0.3m - 0.5m** focus limiter setting for faster and more precise autofocus in the macro range.
- For extremely precise focus, switch to**MF** and fine-tune using the focus ring.

6. MAINTENANCE

- **Cleaning:** Use a soft, clean microfiber cloth to gently wipe dust and smudges from lens surfaces. For stubborn marks, use a lens cleaning solution specifically designed for optical glass. Never use harsh chemicals or abrasive materials.
- **Storage:** Store the lens in a cool, dry place away from direct sunlight and extreme temperatures. Use lens caps when not in use to protect the front and rear elements.
- **Moisture and Dust:** While the lens features moisture-proof and dust-resistant construction, avoid exposing it to heavy rain or dusty environments for prolonged periods.

7. TROUBLESHOOTING

- **Autofocus is slow or hunts:**
 - Ensure sufficient light is available for the autofocus system.
 - Check the **Focus Limiter Switch** setting; select a narrower range if applicable.
 - Clean the lens contacts on both the lens and camera body.
- **Images are blurry:**
 - Ensure the **VC switch** is **ON** if shooting handheld.
 - Check your shutter speed; use a faster speed or a tripod if necessary.
 - Verify that the lens is securely attached to the camera body.
- **Lens not recognized by camera:**
 - Remove and reattach the lens, ensuring proper alignment and a secure click.
 - Clean the electronic contacts on both the lens and camera body.
 - Ensure your camera's firmware is up to date.

8. SPECIFICATIONS

Feature	Detail
Brand	Tamron
Model Number	AFF017C700
Focal Length	90mm

Feature	Detail
Maximum Aperture	F/2.8
Minimum Aperture	F/32
Lens Type	Macro
Compatible Mountings	Canon EF
Filter Diameter	Ø62mm
Minimum Focus Distance	11.8 inches (0.3 meters)
Max. Magnification Ratio	1:1
Image Stabilization	VC (Vibration Compensation) with XY-Shift compensation
Construction	Moisture-Proof and Dust-Resistant
Dimensions (L x W x H)	4.6 x 4.5 x 4.5 inches
Item Weight	1.4 pounds

9. WARRANTY AND SUPPORT

For warranty information, product registration, and technical support, please refer to the official Tamron website or contact your local Tamron distributor. Keep your proof of purchase for warranty claims.

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