

## Tamron AFA032C700

# Tamron SP 24-70mm F/2.8 Di VC USD G2 Lens Instruction Manual

For Canon DSLR Cameras

## 1. INTRODUCTION

Welcome to the instruction manual for your Tamron SP 24-70mm F/2.8 Di VC USD G2 lens. This high-performance standard zoom lens is designed for Canon DSLR cameras, offering a versatile focal range, a fast f/2.8 aperture, advanced Vibration Compensation (VC), and a fast Ultrasonic Silent Drive (USD) autofocus motor. This manual provides essential information for safe and effective use, setup, operation, and maintenance of your lens.

The Tamron SP 24-70mm F/2.8 Di VC USD G2 is engineered to maximize the potential of modern high-pixel-density cameras, delivering exceptional image quality across its zoom range. Its robust construction and advanced optical design make it suitable for a wide variety of photographic applications, from landscapes and portraits to event photography.

## 2. SAFETY PRECAUTIONS

To ensure safe operation and prevent damage to your lens or camera, please observe the following precautions:

- **Avoid Direct Sunlight:** Do not leave the lens exposed to direct sunlight for extended periods, as this can cause internal damage or fire.
- **Keep Dry:** This lens features moisture-resistant construction, but it is not waterproof. Avoid exposing it to heavy rain or submerging it in water.
- **Handle with Care:** Lenses are precision optical instruments. Avoid dropping or subjecting the lens to strong impacts.
- **Cleaning:** Use only approved lens cleaning solutions and cloths. Never use organic solvents like paint thinner or benzene.
- **Storage:** Store the lens in a cool, dry place, away from direct sunlight and extreme temperatures. Use a desiccant if storing in humid environments.
- **Electrical Contacts:** Do not touch the electrical contacts on the lens mount. Dust or dirt on these contacts can cause malfunctions.

### 3. PARTS IDENTIFICATION

Familiarize yourself with the various components of your Tamron SP 24-70mm F/2.8 Di VC USD G2 lens:



*This image displays the Tamron SP 24-70mm F/2.8 Di VC USD G2 lens. Visible features include the zoom ring with focal*

length markings (24mm, 35mm, 50mm, 70mm), the manual focus ring, the focus distance window, and the lens lock switch. The lens also features a filter thread at the front for attaching filters.

- **Filter Thread:** Located at the front of the lens for attaching filters.
- **Zoom Ring:** Used to adjust the focal length from 24mm to 70mm. Marked with focal lengths 24, 35, 50, and 70.
- **Lens Lock Switch:** Engages to prevent the lens from extending when carried, typically at the 24mm position.
- **Focus Ring:** Used for manual focusing.
- **Focus Distance Window:** Displays the current focus distance in meters (m) and feet (ft).
- **AF/MF Switch:** Toggles between Autofocus (AF) and Manual Focus (MF) modes.
- **VC ON/OFF Switch:** Activates or deactivates the Vibration Compensation (image stabilization) function.
- **Lens Mount Index:** Alignment mark for attaching the lens to the camera body.
- **Lens Mount:** The part of the lens that connects to the camera body.

## 4. SETUP

### 4.1 Attaching the Lens

1. Remove the rear lens cap and the camera body cap.
2. Align the lens mount index mark on the lens with the corresponding mark on your Canon DSLR camera body.
3. Insert the lens into the camera mount and rotate it clockwise until it clicks into place. Ensure it is securely locked.

### 4.2 Detaching the Lens

1. While holding down the lens release button on the camera body, rotate the lens counter-clockwise.
2. Once unlocked, carefully remove the lens from the camera body.
3. Attach the rear lens cap to the lens and the body cap to the camera to protect them from dust and damage.

## 5. OPERATING THE LENS

### 5.1 Autofocus (AF) and Manual Focus (MF)

The lens features an AF/MF switch to select your desired focusing mode:

- **AF (Autofocus):** Set the switch to 'AF' for automatic focusing. The Ultrasonic Silent Drive (USD) motor provides fast, precise, and quiet autofocus performance.
- **MF (Manual Focus):** Set the switch to 'MF' to manually adjust focus using the focus ring. This mode allows for fine-tuned focusing control.

### 5.2 Vibration Compensation (VC)

The Vibration Compensation (VC) mechanism helps reduce camera shake, allowing for sharper images when shooting handheld, especially in low light or at slower shutter speeds. The VC system in this lens offers a CIPA image stabilization performance level of 5 stops.

- **VC ON:** Set the VC switch to 'ON' to activate image stabilization.
- **VC OFF:** Set the VC switch to 'OFF' when using a tripod or when image stabilization is not desired.
- **VC Auto Detect Mode 2:** This lens features an advanced VC system that automatically detects panning motion,

optimizing stabilization for such shots.

## 5.3 Zooming

To change the focal length, rotate the zoom ring. The lens allows for smooth adjustment between 24mm (wide-angle) and 70mm (short telephoto). The focal length markings on the ring provide a visual guide.

## 5.4 Lens Lock Mechanism

The lens is equipped with a lock switch to prevent the lens barrel from extending unintentionally, particularly when carrying the camera with the lens attached. This lock is effective only at the 24mm wide-angle position.

- **To Lock:** Rotate the zoom ring to the 24mm position and slide the lock switch to the 'LOCK' position.
- **To Unlock:** Slide the lock switch back to the 'UNLOCKED' position.

# 6. MAINTENANCE AND CARE

## 6.1 Cleaning the Lens

Keep your lens clean to maintain optimal image quality:

- Use a blower brush to remove dust and loose particles from the lens surfaces.
- For smudges or fingerprints, use a clean, soft microfiber lens cloth and a small amount of lens cleaning solution. Apply the solution to the cloth, not directly to the lens.
- Clean the lens mount contacts with a dry, clean cloth if they appear dirty.

## 6.2 Storage

When not in use, store the lens with both front and rear caps attached. Keep it in a protective case or bag, away from dust, moisture, and extreme temperatures. If storing for extended periods in humid conditions, consider using a desiccant to prevent mold growth.

## 6.3 Fluorine Coating

The front element of this lens features a fluorine coating, which repels water and oil, making it easier to wipe away smudges, fingerprints, and dirt. This contributes to easier maintenance and improved durability.

## 6.4 Moisture-Resistant Construction

The lens incorporates moisture-resistant construction, providing enhanced protection against dust and moisture ingress. This makes the lens more reliable for outdoor photography in various weather conditions, though it is not fully waterproof.

# 7. TROUBLESHOOTING

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

- **Autofocus Not Working:**
  - Ensure the AF/MF switch on the lens is set to 'AF'.
  - Check that the camera's focus mode is set to AF.
  - Clean the electrical contacts on both the lens and camera body.

- **Vibration Compensation Not Effective:**

- Ensure the VC switch on the lens is set to 'ON'.
- VC is most effective for static subjects; extreme camera shake or very long exposures may still result in blur.

- **Lens Not Attaching/Detaching Smoothly:**

- Ensure proper alignment of the mount index marks.
- Do not force the lens. If resistance is met, re-align and try again.

- **Image Quality Issues (e.g., soft images, flare):**

- Ensure the lens elements are clean.
- Use the included lens hood to minimize flare, especially when shooting towards bright light sources.
- Check your camera's settings (e.g., ISO, shutter speed, aperture) for appropriate exposure.

If problems persist after attempting these solutions, please contact Tamron customer support or a qualified service technician.

## 8. SPECIFICATIONS

Key technical specifications for the Tamron SP 24-70mm F/2.8 Di VC USD G2 lens:

| Feature                  | Specification          |
|--------------------------|------------------------|
| Product Dimensions       | 4.4 x 3.5 x 3.5 inches |
| Item Weight              | 1.99 pounds            |
| Item Model Number        | AFA032C700             |
| Focal Length Description | 24-70 millimeters      |
| Lens Type                | Standard Zoom          |
| Compatible Mountings     | Canon EF               |
| Minimum Aperture         | F/22                   |
| Manufacturer             | Tamron                 |
| First Available Date     | June 20, 2017          |

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

This Tamron lens comes with a **6-Year Limited USA Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For complete details regarding coverage, terms, and conditions, please refer to the official Tamron warranty documentation provided with your product or visit the Tamron USA website.

## 9.2 Further Assistance

For more detailed information, including advanced features and specific usage scenarios, you can refer to the official user manual in PDF format:

[Download Tamron SP 24-70mm F/2.8 Di VC USD G2 User Manual \(PDF\)](#)

For customer support, technical inquiries, or service requests, please visit the official Tamron website or contact your local authorized Tamron service center. Contact information can typically be found on the Tamron website or in your product packaging.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

#### Name

Anonymous

#### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

#### 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.

Submit question