

Tamron SP 24-70mm F/2.8 Di VC USD G2 Lens (Model A032) Instruction Manual

I. Warnings

⚠ **ATTENTION:** Never look at the sun directly through the lens, as it may cause permanent vision damage .

⚠ **ATTENTION:** Do not leave the lens in direct sunlight or high-temperature environments for extended periods, as concentrated light rays may focus on nearby objects and cause fire .

⚠ **ATTENTION:** Keep this product out of reach of young children. The lens may fall and cause injury .

⚠ **ATTENTION:** Not suitable for children under 36 months. Product contains small parts (such as lens caps) that may cause choking hazards.

II. Product Name Tamron SP 24-70mm F/2.8 Di VC USD G2 Lens (Model A032)

III. Product Branding Tamron

IV. Instructions for Use

1. **Mounting/Removing the Lens:** Remove the rear cap of the lens. Align the lens attachment mark on the lens barrel with the corresponding mark on the camera mount and insert the lens. Rotate clockwise (Canon) or counter-clockwise (Nikon) until it clicks into the locking position . To remove, press the lens release button on the camera and rotate the lens in the opposite direction. Ensure the camera is turned off when attaching or removing the lens .
2. **Focus Mode Selection:** Slide the AF/MF switch on the lens barrel to select focus mode. Set to "AF" for autofocus utilizing the USD (Ultrasonic Silent Drive) motor, or "MF" for manual focus . This lens features full-time manual focus override, allowing fine-tuning even in AF mode by turning the focus ring while the shutter button is pressed halfway .
3. **VC (Vibration Compensation) Function:** Slide the VC switch to the "ON" position to activate Tamron's Vibration Compensation image stabilization system, which effectively reduces camera shake during handheld shooting by up to 5 stops (CIPA Standards Compliant) . The system offers two modes: Mode 1 for general use with a stabilized viewfinder image, and Mode 2 designed exclusively for panning shots . Set to "OFF" when using a tripod .
4. **Zoom Operation:** Rotate the zooming ring while viewing through the camera's viewfinder to compose your image at the desired focal length between 24mm and 70mm .
5. **Zoom Lock Switch:** To prevent the lens barrel from extending by its own weight while carrying, set the lens to the 24mm position and slide the zoom lock switch toward the camera until engaged . Push the switch away from the camera to release. The zoom lock switch cannot be activated unless the lens is set to the 24mm position .
6. **Lens Hood Attachment:** Align the hood attaching alignment mark on the included flower-shaped lens hood with the corresponding release mark on the lens barrel, then rotate clockwise to secure . The hood features a locking mechanism to prevent accidental detachment . For storage, the hood can be reversed and mounted on the lens.

V. Precautions

1. This Di (Digitally Integrated) lens is compatible with both full-frame and APS-C format DSLR

cameras . On APS-C bodies, it provides an equivalent focal length of approximately 38.6-112mm .

2. Avoid changing lenses in dusty or humid environments to prevent dust or moisture from entering the camera or lens.
3. When cleaning the lens, first use a blower to remove surface dust. For fingerprints or smudges, use a lens cleaning tissue with a drop of cleaning solution, wiping with a rotary motion from center to edge . The front element features a protective fluorine coating that repels water and oil, making smudges easier to clean .
4. When not in use, always attach both front and rear lens caps and store the lens in a cool, dry place away from direct sunlight to prevent fungal growth .
5. This lens features moisture-resistant construction with special seals throughout the lens barrel to prevent moisture from entering, allowing for outdoor shooting in adverse conditions .
6. When using the camera's built-in flash, especially at wide-angle settings, remove the lens hood to prevent shadowing (vignetting) at the bottom of the image . Using a separate external flash unit is recommended.
7. Do not touch the electronic contacts on the lens mount. Keep them clean to ensure proper communication with the camera .
8. Due to the Internal Focusing (IF) system design, the angles of view at distances other than infinity are wider than those of lenses using ordinary focusing systems .

VI. Function Introduction

1. Best-in-Class 5-Stop VC Image Stabilization: Features a dual MPU (micro-processing unit) control system with one MPU dedicated to VC processing, delivering the highest vibration compensation in its class at 5 stops (CIPA standard) . This enables sharp handheld shooting even in low-light conditions.
2. Advanced Dual MPU Control System: Equipped with two high-performance MPUs (micro-processor units) with embedded DSP (digital signal processing) blocks, enabling high-speed digital signal processing for excellent responsiveness to camera signals and high-precision AF performance .
3. Sophisticated Optical Design: Constructed with 17 elements in 12 groups, including 2 XR (Extra Refractive Index) glass elements, 3 LD (Low Dispersion) elements, 3 GM (glass-molded aspherical) elements, and 1 hybrid aspherical lens element . This advanced configuration effectively minimizes axial and transverse chromatic aberrations, spherical aberrations, and distortion for superior image quality.
4. eBAND and BBAR Coatings: Features Tamron's proprietary eBAND (Extended Bandwidth & Angular-Dependency) Coating combined with BBAR (Broad-Band Anti-Reflection) Coating to dramatically suppress ghosting and flare, delivering crystal clear images even in backlit conditions .
5. USD (Ultrasonic Silent Drive) Motor: Provides fast, responsive, and whisper-quiet autofocus performance suitable for both still photography and video applications .
6. Rounded 9-Blade Diaphragm: The nine-blade diaphragm maintains a nearly perfectly circular shape even when stopped down two steps from maximum aperture, delivering beautifully smooth background blur (bokeh) .
7. Moisture-Resistant and Fluorine Coating: Sealed construction prevents moisture ingress, while fluorine coating on the front element offers long-lasting oil and water resistance, making

maintenance easy .

8. Close Focusing Capability: Achieves a minimum focus distance of 0.38m (15 inches) throughout the entire zoom range, with a maximum magnification ratio of 1:5 .
9. TAP-in Console Compatibility: Compatible with the optional TAP-in Console, allowing users to update lens firmware and customize features including AF fine-tuning and VC adjustments .

VII. Common Issues

1. Lens creep when carrying: The lens barrel may extend slightly when pointed downward due to gravity. Always use the zoom lock switch at the 24mm position when carrying to prevent accidental extension and potential damage .
2. Image blur at slower shutter speeds: Ensure the VC switch is turned on for handheld shooting. For maximum sharpness when using a tripod, set VC to "OFF" .
3. VC system operational characteristics: When VC is activated, the viewfinder image may blur momentarily right after pressing the shutter button halfway — this is normal and not a malfunction . A clicking sound may be heard when VC is active—this is also normal.
4. Autofocus not working properly: Check that the focus mode switch on the lens is set to "AF" and that the camera's focus mode is correctly configured. Also, ensure the electronic contacts on both the lens and camera are clean .
5. Vignetting with built-in flash: When using the camera's built-in flash, especially at wide-angle settings and close distances, remove the lens hood to prevent shadowing. The lens barrel itself may also cause vignetting in some situations .
6. Lens compatibility with newer cameras: For optimal performance with newer camera models, ensure your lens firmware is up to date. Visit the Tamron support website for compatibility information and firmware updates .
7. Reduced number of recordable images: When VC is ON, the number of images recordable may be slightly reduced due to power consumption from the camera .
8. Angle of view characteristics at close distances: Due to the Internal Focusing (IF) system design, the angle of view at distances other than infinity is wider than that of lenses using ordinary focusing systems .

