

Tamron F004S

Tamron F004 90mm F/2.8 Macro USD Lens for Sony Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the proper use and care of your Tamron F004 90mm F/2.8 Macro USD Lens for Sony cameras. This high-performance macro lens incorporates advanced optical technologies to deliver exceptional image sharpness and pleasing background blur. It features an Ultrasonic Silent Drive (USD) motor for fast and quiet autofocus, and a moisture-resistant construction for enhanced durability.

2. KEY FEATURES

- **Advanced eBAND Coating Technology:** Significantly reduces flare and ghosting for clear, crisp images.
- **Ultrasonic Silent Drive (USD) Motor:** Enables quick, precise, and quiet autofocus operation.
- **Fast F/2.8 Aperture:** Provides excellent low-light performance and shallow depth of field.
- **Moisture-Resistant Construction:** Helps protect the lens from moisture ingress.
- **1:1 Magnification Ratio:** Achieves life-size macro photography.
- **Internal Focusing (IF) System:** Maintains constant lens length during focusing.
- **Full-Time Manual Focus Override:** Allows for fine manual focus adjustments even in autofocus mode.
- **Specialized Glass Elements:** Includes two Extra Low Dispersion (XLD) and one Low Dispersion (LD) element to correct chromatic aberrations.

3. SETUP

3.1 Attaching the Lens

1. Ensure both the camera and lens are powered off.
2. Remove the rear lens cap from the lens and the body cap from the camera.

3. Align the mounting index (usually a white dot) on the lens barrel with the corresponding index on the camera body.
4. Insert the lens into the camera's lens mount and rotate it clockwise until it clicks into place. Do not force the lens.

3.2 Removing the Lens

1. Ensure the camera is powered off.
2. While pressing the lens release button on the camera body, rotate the lens counter-clockwise until it detaches.
3. Attach the rear lens cap to the lens and the body cap to the camera to protect them from dust.

4. OPERATING THE LENS

4.1 Autofocus (AF)

The lens is equipped with an Ultrasonic Silent Drive (USD) motor for fast and quiet autofocus. To use autofocus, set the AF/MF switch on the lens barrel to 'AF'.

The lens also features a focus limiter switch to optimize autofocus speed by restricting the focus range. The available settings are:

- **FULL (0.3m - ∞):** Uses the full focus range.
- **0.5m - ∞:** Limits focus to subjects further than 0.5 meters (approximately 1.64 feet). Useful for general photography to prevent hunting in the macro range.
- **0.3m - 0.5m:** Limits focus to subjects between 0.3 meters (approximately 11.8 inches) and 0.5 meters. Ideal for dedicated macro shooting.

4.2 Manual Focus (MF)

To use manual focus, set the AF/MF switch on the lens barrel to 'MF'. Rotate the focus ring to adjust focus. This lens supports full-time manual focus override, allowing you to fine-tune focus manually even when the lens is set to AF mode, without needing to switch modes.

4.3 Vibration Compensation (VC)

The Vibration Compensation (VC) mechanism helps reduce camera shake, allowing for sharper images when shooting handheld, especially in lower light conditions or at slower shutter speeds. To activate VC, set the VC switch on the lens barrel to 'ON'. Turn VC 'OFF' when using a tripod or when shooting at very fast shutter speeds where stabilization is not required.

4.4 Macro Photography

This lens offers a true 1:1 magnification ratio, meaning subjects can be reproduced at life-size on the camera's sensor. The minimum focusing distance is approximately 0.3 meters (11.8 inches), allowing for close-up photography of small subjects. For optimal macro results, consider using the focus limiter switch to the '0.3m - 0.5m' range.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your lens.

- **Cleaning the Lens:** Use a soft, clean microfiber cloth specifically designed for optical surfaces to gently wipe dust and smudges from the lens elements. For stubborn marks, use a small amount of lens cleaning fluid applied to the cloth, not directly to the lens.

- **Body Cleaning:** Wipe the lens barrel with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- **Moisture Protection:** While the lens features moisture-resistant construction, it is not waterproof. Avoid exposing the lens to heavy rain or direct water spray. If the lens gets wet, wipe it dry immediately.
- **Storage:** Store the lens in a cool, dry place away from direct sunlight and extreme temperatures. Use front and rear lens caps to protect the elements. If storing for an extended period, consider using a desiccant to prevent mold growth.

6. TROUBLESHOOTING

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

- **Autofocus Hunting:** In very low light conditions or with subjects lacking contrast, the autofocus may struggle to lock. Try switching to manual focus or using a focus assist light. Ensure the focus limiter switch is set appropriately for your subject distance.
- **Unsharp Images:** Check that the lens is securely mounted to the camera. Verify that the focus mode (AF/MF) and VC switch are set correctly for your shooting situation. Ensure your shutter speed is fast enough to prevent motion blur, especially when not using VC.
- **Lens Not Recognized:** Ensure the lens is properly attached and the camera is powered on. Clean the electrical contacts on both the lens and camera body with a clean, dry cloth.

For persistent issues, consult the camera's instruction manual or contact Tamron customer support.

7. SPECIFICATIONS

Specification	Value
Brand	Tamron
Model Number	F004S
Focal Length	90 mm
Lens Type	Macro
Compatible Mountings	Sony
Product Dimensions	3.01 x 3.01 x 4.84 inches
Item Weight	1.21 pounds
Date First Available	November 22, 2012

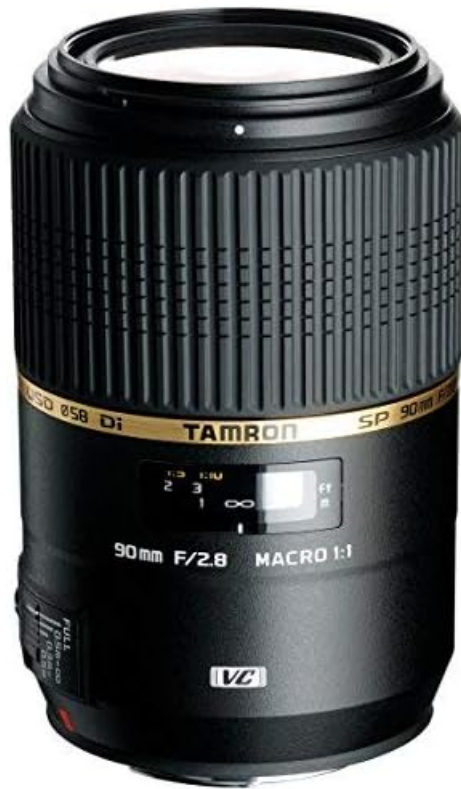
8. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your lens or visit the official Tamron website. For technical assistance, repairs, or any other inquiries, please contact Tamron customer support directly.

9. PRODUCT IMAGES



Front view of the Tamron F004 90mm F/2.8 Macro USD Lens, showcasing its barrel, focus ring, and gold accent band.



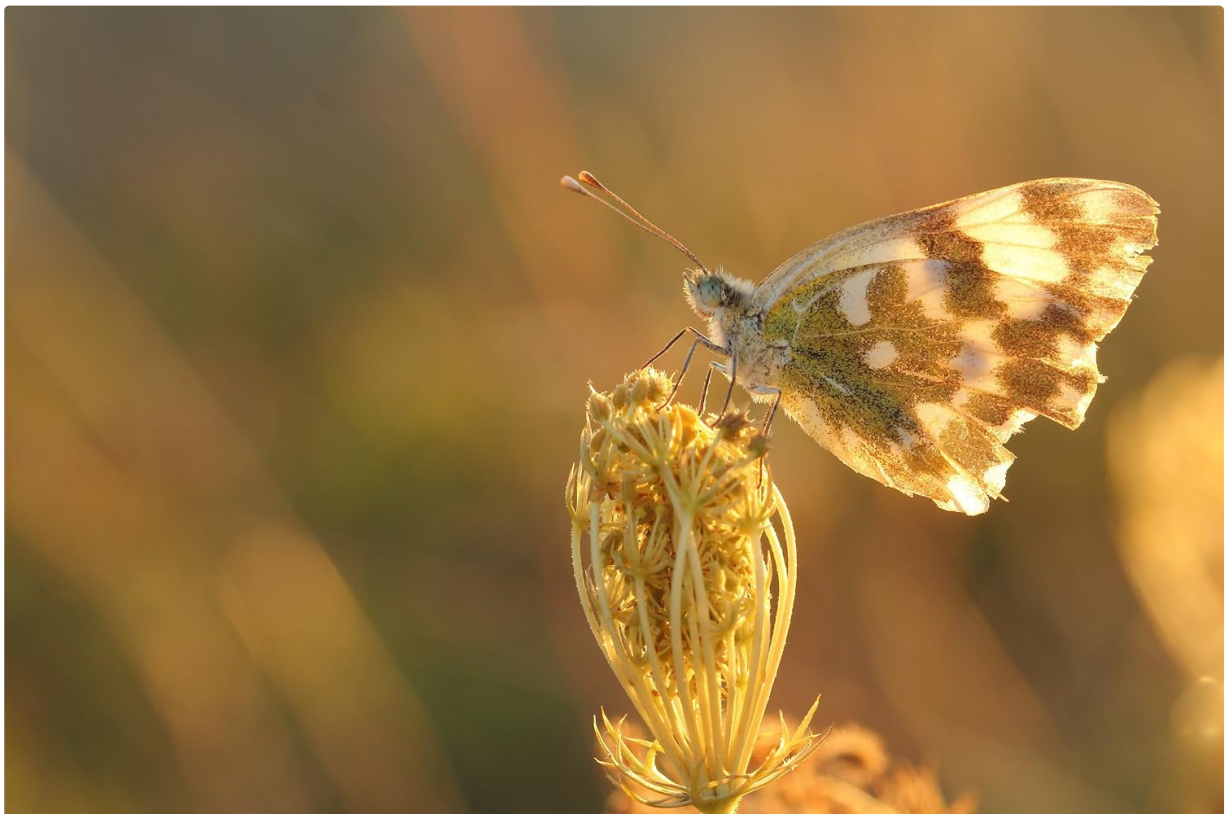
Angled view of the Tamron F004 90mm F/2.8 Macro USD Lens, highlighting the focus distance window and control switches.



Example macro photograph of a butterfly resting on a flower, demonstrating the lens's ability to capture fine detail and shallow depth of field.



Example macro photograph of a small insect with water droplets on a green leaf, showcasing the lens's close-up capabilities.



Example macro photograph of a butterfly with intricate wing patterns on a plant, illustrating the lens's detail rendition.



Example macro photograph of a snail shell on a dry stem, demonstrating the lens's ability to isolate subjects with smooth bokeh.

