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› Instruction Manual for TAMRON 13VG550ASII CCTV Lens

Tamron 13VG550ASII

Instruction Manual for TAMRON 13VG550ASII CCTV Lens

Model: 13VG550ASII

Brand: Tamron

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of the Tamron 13VG550ASII Vari-Focal CCTV Lens. This high-power lens is designed for various outdoor surveillance applications, including parking lots, building perimeters, and traffic monitoring, offering robust performance and versatility.

The 13VG550ASII is a 1/3" Imager Size lens with a CS Mount, featuring a focal length range of 5-50mm and an aperture range of 1.4-360. It incorporates manual focus, manual zoom, and DC Auto Iris for precise control over image capture in varying light conditions.

2. KEY FEATURES

- **Imager Size:** 1/3 inch
- **Mount Type:** CS Mount
- **Focal Length:** 5 - 50mm (Vari-Focal)
- **Aperture Range:** 1.4 - 360
- **Operation:** Manual Zoom and Manual Focus
- **Iris Control:** DC Auto Iris
- **Wide Angle of View (1/3"):** 53.6° x 40.3° (Horizontal x Vertical)
- **Tele Angle of View (1/3"):** 5.6° x 4.2° (Horizontal x Vertical)
- **Minimum Focusing Distance:** 0.3 meters

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance of your Tamron 13VG550ASII lens. Follow these steps carefully:

1. **Unpacking:** Carefully remove the lens from its packaging. Inspect for any visible damage.
2. **Camera Compatibility:** Ensure your CCTV camera has a CS mount. This lens is designed for 1/3" imager size cameras.
3. **Mounting the Lens:**
 - Remove the protective caps from both the lens and the camera mount.
 - Align the lens with the camera's CS mount.
 - Gently screw the lens onto the camera mount until it is securely fastened. Do not overtighten.
4. **Connecting the Iris Cable:** Connect the 4-pin DC Auto Iris cable from the lens to the corresponding port on your camera. Ensure the connection is firm.
5. **Initial Adjustment:** Before final adjustments, ensure the camera is powered on and displaying an image.



Figure 1: The Tamron 13VG550ASII Vari-Focal CCTV Lens. This image shows the compact black lens with its focus and zoom rings, and the attached DC Auto Iris cable.

4. OPERATING INSTRUCTIONS

The Tamron 13VG550ASII lens offers manual control for zoom and focus, along with automatic iris adjustment.

4.1. Manual Zoom Adjustment

The zoom ring allows you to adjust the focal length of the lens, changing the field of view from wide (5mm) to telephoto (50mm).

- Rotate the zoom ring on the lens to achieve the desired field of view.
- Turn clockwise for a narrower, more magnified view (telephoto).
- Turn counter-clockwise for a wider, less magnified view (wide-angle).

4.2. Manual Focus Adjustment

After adjusting the zoom, the focus will need to be set to ensure a clear image.

- Rotate the focus ring on the lens until the image on your monitor appears sharp and clear.
- It is recommended to zoom in fully (telephoto) to focus, then zoom out to the desired field of view. Minor focus adjustments may be needed after zooming out.

4.3. DC Auto Iris Operation

The DC Auto Iris automatically adjusts the lens aperture to compensate for changes in light levels, ensuring consistent image brightness.

- Ensure the 4-pin iris cable is correctly connected to your camera.
- The camera's internal circuitry will control the iris, opening it in low light and closing it in bright light.

- No manual adjustment is typically required for the iris once connected.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your Tamron lens, follow these maintenance guidelines:

- **Lens Cleaning:**
 - Use a soft, lint-free microfiber cloth specifically designed for optics.
 - For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the lens.
 - Gently wipe the lens surface in a circular motion from the center outwards.
 - Avoid touching the lens surface with bare hands.
- **Dust Removal:** Use a blower brush or compressed air (designed for electronics) to remove dust particles from the lens surface before wiping.
- **Storage:** When not in use, store the lens with its protective caps on in a clean, dry, and dust-free environment. Avoid extreme temperatures and humidity.
- **Handling:** Always handle the lens by its barrel, avoiding direct contact with the glass elements.
- **Environmental Protection:** While designed for outdoor applications, protect the lens from direct impact, excessive moisture, and corrosive substances.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Tamron 13VG550ASII lens.

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Focus ring not adjusted correctly. Back focus issue.	Adjust the manual focus ring. Ensure the lens is securely mounted and the camera's back focus is correctly set if applicable.
Image is too dark or too bright.	DC Auto Iris cable not connected or faulty. Extreme lighting conditions.	Verify the 4-pin iris cable connection. Check camera settings for exposure control.
No image displayed.	Lens not mounted correctly. Camera power issue. Cable connection issue.	Ensure the lens is securely screwed onto the camera. Check camera power and video cable connections.
Zoom function not working smoothly.	Dust or debris on zoom mechanism.	Inspect the zoom ring for obstructions. Clean the lens exterior. Do not force the ring.

7. SPECIFICATIONS

Detailed technical specifications for the Tamron 13VG550ASII lens:

Specification	Value
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Specification	Value
Model	13VG550ASII
Imager Size	1/3 inch
Mount Type	CS Mount
Focal Length	5 - 50mm
Aperture Range	1.4 - 360
Angle of View (1/3" Wide)	53.6° x 40.3° (Horizontal x Vertical)
Angle of View (1/3" Tele)	5.6° x 4.2° (Horizontal x Vertical)
Angle of View (1/4" Wide)	40.3° x 30.1° (Horizontal x Vertical)
Angle of View (1/4" Tele)	4.2° x 3.1° (Horizontal x Vertical)
Focusing Range	0.3m - ∞
Operation	Manual Focus / Manual Zoom / Iris DC Auto Iris
Back Focus (in air)	Wide 10.05 - Tele 11.81mm
Operating Voltage	Open 4.0V / Close 0.7V
Weight	84g (0.185 lbs)
Product Dimensions	2.3 x 1.5 x 1.5 inches
Operating Temperature	-20°C - +60°C (-4°F - +140°F)
Date First Available	July 25, 2010
Manufacturer	Tamron

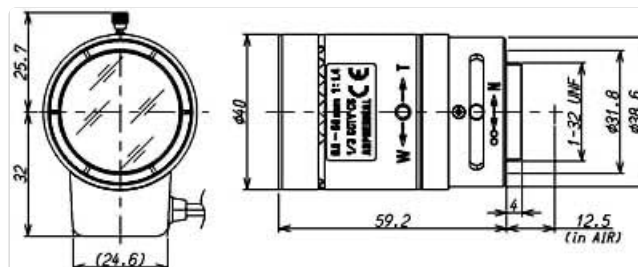


Figure 2: Dimensional drawing of the Tamron 13VG550ASII lens. This diagram provides precise measurements in millimeters, including length, diameter, and mount details, essential for integration and planning.

8. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Tamron 13VG550ASII lens, please refer to the official Tamron website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

For the most up-to-date information, visit the official Tamron website or authorized distributors.

Note: No specific warranty period or detailed support contact information was provided in the product data. Please consult the manufacturer's official resources.

9. OFFICIAL PRODUCT VIDEOS

There are no official product videos from the seller available for this model in the provided data. Please check the manufacturer's official website or authorized channels for any available video resources.

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