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Sigma 24-70mm f/2.8 DG OS HSM Art Lens

Sigma 24-70mm f/2.8 DG OS HSM Art Lens for Canon - Instruction Manual

1. Introduction

This manual provides detailed instructions for the proper use and care of your Sigma 24-70mm f/2.8 DG OS HSM Art Lens for Canon. This large-diameter standard zoom lens is designed for today's ultra-high-megapixel digital cameras, minimizing optical aberrations with its three SLD (Special Low Dispersion) glass and four aspherical lens elements. Understanding these instructions will ensure optimal performance and longevity of your lens.



Figure 1: Front view of the Sigma 24-70mm f/2.8 DG OS HSM Art Lens.

2. Key Features

- **Optical Stabilization (OS) Functionality:** Ensures stable images by compensating for camera shake, crucial for handheld shooting.
- **Hyper Sonic Motor (HSM):** Provides fast, quiet, and accurate autofocus performance.

- **Robust Lens Barrel:** Designed for high rigidity and durability, suitable for professional use.
- **Advanced Optical Design:** Incorporates three SLD (Special Low Dispersion) glass elements and four aspherical lens elements to minimize chromatic aberration and distortion, delivering high image quality.
- **Constant f/2.8 Aperture:** Maintains a bright maximum aperture throughout the zoom range, allowing for excellent low-light performance and shallow depth of field.

3. Setup and Installation

3.1 Attaching the Lens

1. Remove the rear lens cap from the lens and the body cap from your Canon camera.
2. Align the red index mark on the lens barrel with the red index mark on your camera's lens mount.
3. Rotate the lens clockwise until it clicks into place, indicating it is securely attached.

3.2 Detaching the Lens

1. While holding down the lens release button on your camera body, rotate the lens counter-clockwise until it stops.
2. 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 the sensor from dust.



Figure 2: The Sigma lens securely attached to a camera body.

4. Operating the Lens

4.1 Focusing

The lens features a Hyper Sonic Motor (HSM) for fast and quiet autofocus. To switch between autofocus (AF) and manual focus (MF), use the AF/MF switch located on the side of the lens barrel. In MF mode, rotate the focusing ring to adjust focus manually.

4.2 Zooming

To change the focal length, rotate the zoom ring on the lens barrel. The lens offers a versatile 24mm to 70mm range, suitable for various photographic situations from wide-angle to portraiture.

4.3 Optical Stabilization (OS)

The Optical Stabilization (OS) function helps to minimize camera shake, especially useful in low-light conditions or when shooting handheld. Activate or deactivate the OS using the ON/OFF switch on the lens barrel. For optimal results, ensure the OS is turned off when the camera is mounted on a tripod.



Figure 3: AF/MF and OS switches on the lens barrel.

5. Maintenance and Care

5.1 Cleaning

- Use a soft, clean microfiber cloth to gently wipe dust or smudges from the lens elements.
- For stubborn marks, use a lens cleaning solution specifically designed for optical lenses, applied to the cloth, not directly to the lens.
- Avoid touching the lens elements with bare hands to prevent oil and fingerprints.

5.2 Storage

- Store the lens in a cool, dry place, away from direct sunlight and extreme temperatures.
- Always attach the front and rear lens caps when storing to protect the elements from dust and scratches.
- If storing for extended periods, consider using a desiccant to prevent mold and mildew.

6. Troubleshooting

- **Autofocus not working:** Ensure the AF/MF switch is set to AF. Check if the lens is properly mounted on the camera body.
- **Blurry images:** Verify that the Optical Stabilization (OS) is enabled if shooting handheld. Check shutter speed and aperture settings for appropriate exposure.
- **Lens not recognized by camera:** Ensure the lens is firmly attached to the camera body. Clean the electrical contacts on both the lens and camera mount with a clean, dry cloth.

7. Technical Specifications

Brand	Sigma
Model Number	576954

Focal Length	24-70mm
Maximum Aperture	f/2.8
Lens Type	Zoom
Compatible Mountings	Canon EF
Optical Stabilization (OS)	Yes
Autofocus Motor	HSM (Hyper Sonic Motor)
Lens Construction	19 Elements in 14 Groups (including 3 SLD and 4 Aspherical elements)
Filter Size	82mm
Product Dimensions	4.24 x 3.46 x 3.46 inches
Item Weight	2 pounds
Included Accessories	Lens Case and Hood

8. Warranty and Support

For warranty information and support, please refer to the documentation included with your lens or visit the official Sigma Corporation of America website. Sigma offers various protection plans for their products.

- **Manufacturer:** Sigma Corporation of America
- **Protection Plans:** Available options include 3-Year Protection Plan and Complete Protect (monthly subscription).

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