

## Sigma s1-3/62

# Sigma 28-80mm F3.5-5.6 Aspherical Macro HF Lens User Manual

Model: s1-3/62

## 1. INTRODUCTION

This manual provides comprehensive instructions for the proper use, setup, operation, and maintenance of your Sigma 28-80mm F3.5-5.6 Aspherical Macro HF Lens. Please read this manual thoroughly before using the lens to ensure optimal performance and longevity.

## 2. PRODUCT OVERVIEW

The Sigma 28-80mm F3.5-5.6 Aspherical Macro HF Lens is a versatile zoom lens designed for Minolta-AF cameras. It features an aspherical element for improved optical performance and a macro function for close-up photography. The "HF" designation indicates a helical focusing mechanism.



Figure 2.1: Front view of the Sigma 28-80mm F3.5-5.6 Aspherical Macro HF Lens. This image displays the lens barrel with its various rings and markings, including the zoom ring, focus ring, aperture scale, and the "28-80mm HF" and "ASPHERICAL" labels.

## 2.1 Lens Components

- **Zoom Ring:** Used to adjust the focal length between 28mm and 80mm.
- **Focus Ring:** Used for manual focusing.
- **Aperture Ring/Scale:** Displays the current aperture setting (F3.5-F22).
- **Distance Scale:** Indicates the focusing distance in meters and feet.
- **Macro Switch/Setting:** Engages the macro function for close-up photography.
- **Lens Mount:** Connects the lens to the camera body (Minolta-AF mount).

## 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 red or white dot) on the lens with the corresponding index on the camera body.
4. Insert the lens into the camera mount and rotate it clockwise (for Minolta-AF) until it clicks securely into place. Do not force the lens.

### 3.2 Detaching 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. Immediately attach the rear lens cap to the lens and the body cap to the camera to protect the sensor and lens elements from dust.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Zooming

To change the focal length, rotate the zoom ring on the lens barrel. The lens can be set anywhere between 28mm (wide-angle) and 80mm (telephoto). The current focal length is indicated by the markings on the lens barrel.

### 4.2 Focusing

This lens supports both autofocus (AF) and manual focus (MF). The camera body controls the autofocus mechanism. For manual focusing, rotate the focus ring until the subject appears sharp in the viewfinder or on the camera's display. The distance scale on the lens provides an approximate focus distance.

### 4.3 Aperture Control

The lens features a variable maximum aperture of F3.5 at 28mm and F5.6 at 80mm. The aperture can be adjusted via the camera's controls. The aperture scale on the lens barrel indicates the range of available apertures, typically from the maximum aperture to F22.

### 4.4 Macro Function

To engage the macro function for close-up photography, set the zoom ring to the designated macro range (often marked on the lens, e.g., 80mm). Then, activate the macro switch or rotate the focus ring into the macro area. This allows for closer focusing distances and higher magnification ratios. Refer to the lens markings for specific macro engagement instructions.

## 5. MAINTENANCE

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### 5.1 Cleaning the Lens

- Use a blower brush to remove dust and loose particles from the lens surfaces.
- For smudges or fingerprints, apply a small amount of lens cleaning solution to a clean microfiber cloth and gently wipe the lens in a circular motion from the center outwards.
- Never use abrasive materials or harsh chemicals.

### 5.2 Storage

- Always attach the front and rear lens caps when the lens is not in use.

- Store the lens in a cool, dry place, away from direct sunlight and extreme temperatures.
- Consider using a dehumidified storage cabinet if you live in a humid environment to prevent mold growth.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lens not attaching securely	Incorrect alignment; debris on mount	Ensure alignment marks match; clean mount area; rotate until click.
Autofocus not working	Camera AF/MF switch set to MF; poor lighting; dirty contacts	Check camera settings; ensure sufficient light; clean lens and camera contacts.
Images are blurry	Incorrect focus; camera shake; dirty lens elements	Verify focus; use faster shutter speed or tripod; clean lens.
Dust inside lens	Normal accumulation over time; improper storage	Minor dust does not typically affect image quality. For significant dust, contact a professional service center.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	s1-3/62
Focal Length	28-80mm
Maximum Aperture	F3.5 (at 28mm) - F5.6 (at 80mm)
Minimum Aperture	F22
Lens Type	Zoom, Aspherical, Macro, HF
Compatible Mountings	Minolta AF
Item Weight	13.6 ounces (approx. 385 grams)
Package Dimensions	5.4 x 4.2 x 4.1 inches
Manufacturer	Sigma Corporation
ASIN	B000050445

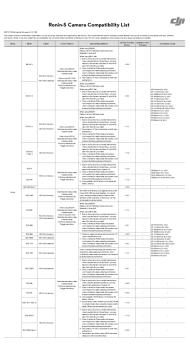
## 8. WARRANTY AND SUPPORT

For information regarding the warranty period and terms for your Sigma lens, please refer to the warranty card included with your product or visit the official Sigma website. For technical support, service, or inquiries about replacement parts, please contact Sigma customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

**Sigma Global Website:** [www.sigma-global.com](http://www.sigma-global.com)



## Related Documents - s1-3/62

	<p><a href="#">DJI Ronin-S Camera Compatibility List</a></p> <p>A comprehensive list of camera and lens combinations compatible with the DJI Ronin-S gimbal, detailing control features, setup methods, and firmware compatibility for various camera brands including Canon, Panasonic, Nikon, Fujifilm, Sony, Blackmagicdesign, Sigma, and Hasselblad.</p>
	<p><a href="#">WIPCOOL Vacuum Pumps: Selection Guide and Technical Specifications</a></p> <p>A comprehensive guide to selecting and understanding WIPCOOL vacuum pumps, detailing their features, technical specifications, and applications for HVAC/R professionals. Covers various models including S series and F series, highlighting their performance, refrigerant compatibility, and unique design elements.</p>
	<p><a href="#">Jacuzzi LRC/TLRC Filter Pump Operation and Installation Manual</a></p> <p>Comprehensive operation and installation instructions for Jacuzzi LRC/TLRC filter pumps, including safety warnings, installation guidelines, electrical connections, starting procedures, maintenance, troubleshooting, and warranty information.</p>
	<p><a href="#">SRNE SR-EOV24 Vertical Energy Storage System User Manual</a></p> <p>User manual for the SRNE SR-EOV24 Vertical Energy Storage System, covering installation, operation, safety, specifications, and troubleshooting for household energy storage solutions.</p>
	<p><a href="#">Lepro S1 Smart LED Strip Light: Installation, Features, and Safety Guide</a></p> <p>Comprehensive guide for the Lepro S1 Smart LED Strip Light, covering installation, app connection, voice control integration, safety precautions, technical specifications, and warranty information.</p>
	<p><a href="#">ESS48 Vertical Energy Storage System User Manual   Installation &amp; Operation Guide</a></p> <p>Comprehensive user manual for the ESS48 Vertical Energy Storage System, detailing installation, operation, safety, technical specifications, and troubleshooting for household energy storage solutions.</p>