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Panasonic S-R1428

Panasonic LUMIX S-R1428 14-28mm F4-5.6 Ultra Wide-Angle Zoom Lens Instruction Manual

1. Introduction

This manual provides essential information for the safe and effective use of your Panasonic LUMIX S Series 14-28mm F4-5.6 ASPH. lens (model S-R1428). This ultra wide-angle zoom lens is designed for LUMIX S5 series cameras, offering high optical performance and mobility for both photography and videography. It features excellent video recording capabilities, including descriptive performance and beautiful bokeh, and is designed with a common overall length and control part positions for practical advantages during use, such as quick lens exchange with minimal balance adjustment on a gimbal.

2. Product Features

- **High Optical Performance:** Comprised of 14 lens elements in 10 groups, including aspherical lenses and 2 ED lenses, to suppress chromatic aberration and achieve beautiful bokeh.
- **Smooth, Silent Operation:** Fully compatible with S Series camera's high-speed, high-precision contrast AF system with a sensor drive at a maximum of 240 fps.
- **Optimized for Video Recording:** Features a mechanism that suppresses focus breathing, a common issue with lenses designed primarily for still photography.
- **Compact and Lightweight Design:** Weighing approximately 12.7 oz (345 g), this lens is highly portable.
- **Macro Capability:** Boasts 0.25x (at 14mm) to 0.5x (at 28mm) macro capability for detailed close-up shots.
- **Rugged Construction:** Dust- and splash-resistant design allows for use under harsh conditions, including temperatures down to -10 degrees Celsius. Note: Dust- and Splash-Resistant does not guarantee that damage will not occur if this lens is subjected to direct contact with dust and water.



Figure 1: Key features of the Panasonic LUMIX S-R1428 lens.

3. Setup

3.1 Attaching the Lens

1. Ensure both the camera and lens are powered off.
2. Remove the rear lens cap and the camera body cap.
3. Align the mounting mark on the lens with the mounting mark on the camera body.
4. Rotate the lens clockwise until it clicks into place. Do not force the lens.

3.2 Attaching a Filter

The lens features a 77mm filter thread. Gently screw the filter onto the front of the lens until secure. Do not overtighten.

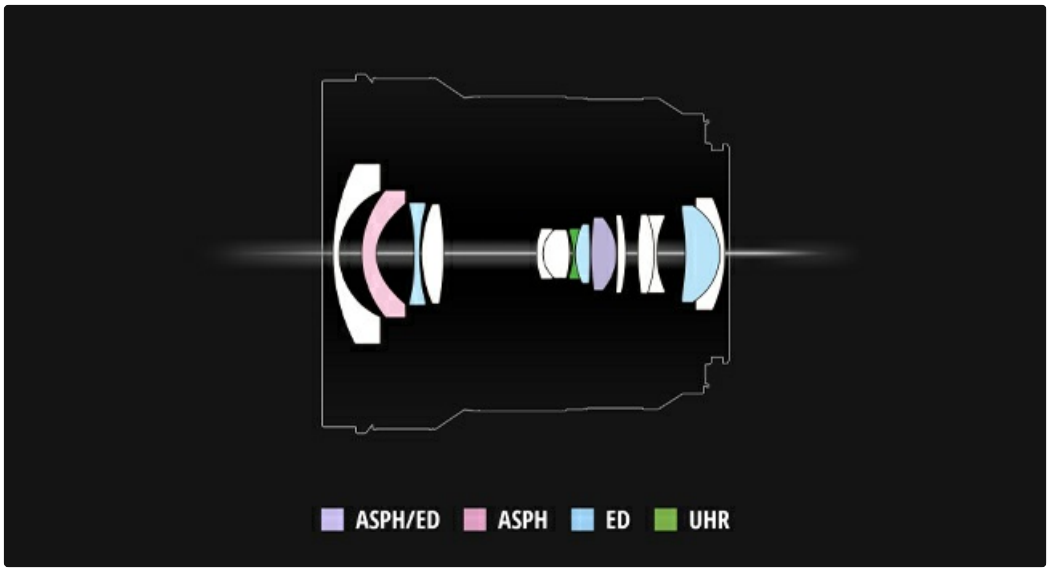

Figure 2: Front view of the lens, highlighting the 77mm filter thread.

4. Operating Instructions

4.1 Autofocus (AF) and Manual Focus (MF)

The lens is equipped with an AF/MF switch on its barrel. Slide the switch to select between autofocus and manual focus

modes. In AF mode, the lens works seamlessly with your camera's high-speed, high-precision contrast AF system. For precise control, switch to MF mode and rotate the focus ring.



Figure 3: Side view of the lens on a camera, indicating the AF/MF switch.

4.2 Zoom Function

Rotate the zoom ring on the lens barrel to adjust the focal length between 14mm and 28mm. The lens maintains a consistent physical length throughout the zoom range, which is beneficial for use with gimbals as it minimizes the need for rebalancing.



Figure 4: Top view of the lens on a camera, showing the zoom ring.

4.3 Macro Photography

This lens offers impressive macro capabilities, with a maximum magnification of 0.5x at 28mm and a minimum focusing distance of 0.15m (5.91 inches). This allows for stunning extreme close-up images with excellent quality. Utilize the AF/MF switch for precise focusing when capturing macro subjects.

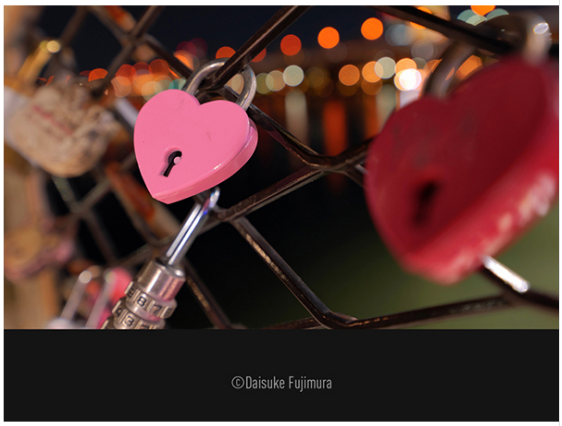

Figure 5: Macro photography example showcasing the lens's close-up capabilities.

4.4 Video Recording

The S-R1428 lens is designed to excel in video recording, featuring a mechanism that effectively suppresses focus breathing. This ensures a stable and professional look for your video footage, especially when changing focus during recording. The silent autofocus operation further enhances its suitability for video production.

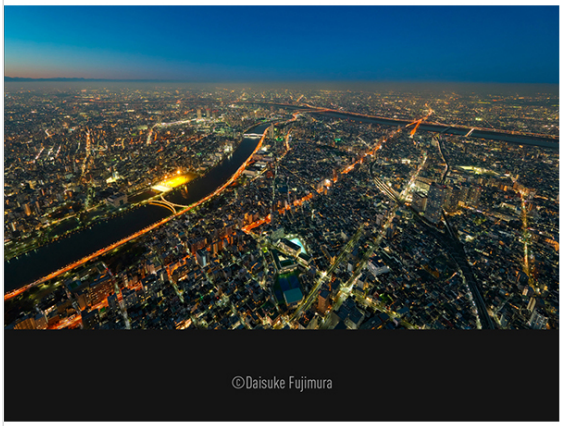

Figure 6: Wide-angle photography example, demonstrating the lens's versatility for landscapes and architecture.

5. Maintenance

5.1 Cleaning the Lens

- Use a blower brush to remove dust and loose particles from the lens surface.
- For smudges or fingerprints, use a clean, soft microfiber cloth specifically designed for optical lenses. Breathe lightly on the lens surface before wiping.
- Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the lens coatings.

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.

- If storing for extended periods, consider using a dehumidifying agent to prevent mold growth.

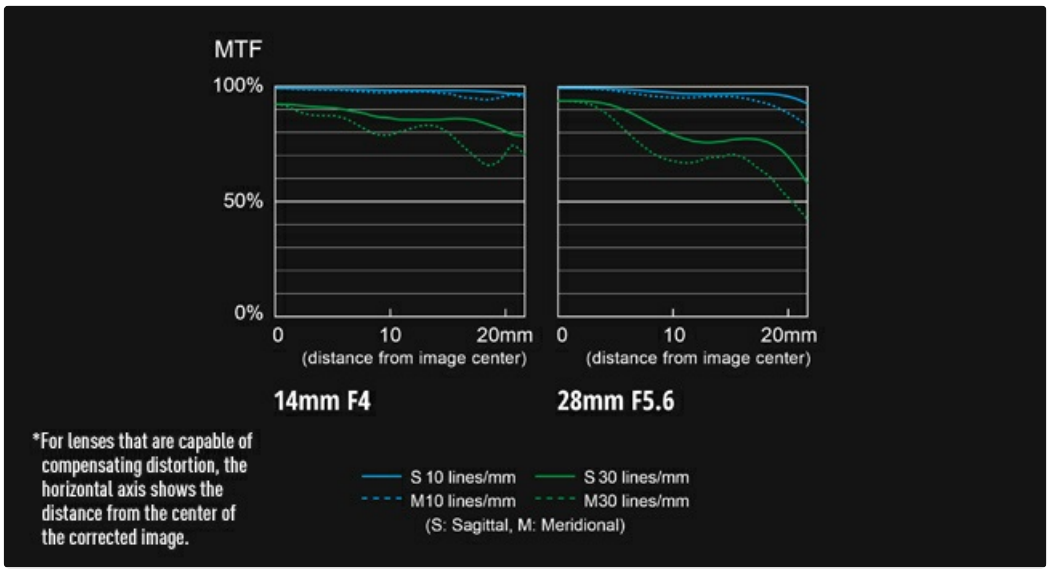

Figure 7: Internal diagram of the lens, highlighting its robust, weather-resistant construction.

6. Troubleshooting

Issue	Possible Cause	Solution
Lens not attaching to camera	Incorrect alignment or obstruction.	Ensure mounting marks are aligned and rotate gently until it clicks. Check for any debris on the mount.
Autofocus not working	Lens set to Manual Focus (MF) or insufficient light.	Slide the AF/MF switch to AF. Ensure adequate lighting for the camera's AF system.
Blurry images	Incorrect focus, camera shake, or dirty lens.	Check focus settings, use a faster shutter speed or tripod, clean the lens elements.
Dust or spots on images	Dust on the lens elements or camera sensor.	Clean the lens as per maintenance instructions. If spots persist, clean the camera sensor or have it professionally cleaned.

7. Specifications

Feature	Detail
Model Number	S-R1428
Focal Length	14-28mm
Maximum Aperture	F4 (at 14mm) - F5.6 (at 28mm)
Lens Type	Ultra Wide-Angle Zoom Lens with Macro Capability
Compatible Mountings	Leica L-Mount
Lens Construction	14 elements in 10 groups (including aspherical and ED lenses)
Minimum Focusing Distance	0.15m (0.49 ft)

Feature	Detail
Maximum Magnification	0.5x (at 28mm)
Filter Size	77mm
Product Dimensions	3.54 x 3.31 x 3.31 inches
Item Weight	1.5 pounds (345g)
Environmental Resistance	Dust- and Splash-Resistant, Freeze-Resistant (down to -10°C)

8. What's in the Box

- Panasonic LUMIX S-R1428 Lens

9. Warranty and Support

For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Panasonic website. Keep your purchase receipt as proof of purchase for warranty claims.

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