

## Panasonic H-FS1442A

# Panasonic LUMIX G Vario 14-42mm / F3.5-5.6 II ASPH. / MEGA O.I.S. Digital Interchangeable Zoom Lens (H-FS1442A)

Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of your Panasonic LUMIX G Vario 14-42mm / F3.5-5.6 II ASPH. / MEGA O.I.S. Digital Interchangeable Zoom Lens (Model H-FS1442A). This black-colored lens is designed for Micro Four Thirds cameras, offering a versatile 14-42mm focal length range (28-84mm equivalent in 35mm format) with optical image stabilization.

## 2. WHAT'S IN THE BOX

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- Panasonic LUMIX G Vario 14-42mm / F3.5-5.6 II ASPH. / MEGA O.I.S. Digital Interchangeable Zoom Lens (H-FS1442A)
- Lens Cap
- Lens Hood (Bayonet-type)
- Rear Lens Cap

## 3. SETUP

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### 3.1 Attaching the Lens

1. Ensure your camera is powered off.
2. Remove the rear lens cap from the lens and the body cap from your camera.
3. Align the mounting index (red dot) on the lens with the mounting index on the camera body.
4. Insert the lens into the camera mount and turn it clockwise until it clicks into place.

### 3.2 Attaching the Lens Hood

The included lens hood helps to prevent unwanted light from entering the lens, reducing flare and ghosting. It attaches via a bayonet mount.

1. Align the lens hood with the front of the lens.
2. Rotate the hood clockwise until it locks securely into position.



Image: The included lens hood for the H-FS1442A lens.

## 4. OPERATING THE LENS

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### 4.1 Zoom Ring

Rotate the zoom ring to adjust the focal length between 14mm (wide-angle) and 42mm (telephoto). The lens barrel extends when zooming. The 35mm-format equivalent focal length range is 28-84mm.

### 4.2 Focus Ring

The focus ring allows for manual focus adjustments. In autofocus mode, the camera will automatically focus. This lens features a quiet and quick AF motor.

### 4.3 Aperture

The lens has a variable maximum aperture of F3.5 at the wide end (14mm) and F5.6 at the telephoto end (42mm). The minimum aperture is F22.

### 4.4 MEGA O.I.S. (Optical Image Stabilization)

The lens is equipped with MEGA O.I.S., Panasonic's optical image stabilization system. This feature helps to reduce blur caused by camera shake, especially useful in lower light conditions or when shooting handheld. The stabilization system may produce a slight jiggling sound when the lens is not active; this is normal operation.

### 4.5 Close Focus Distance

The minimum shooting distance for this lens is approximately 0.2m (0.66ft) from the imaging surface at the wide end and 0.3m (0.98ft) at the telephoto end, allowing for close-up shots.

### 4.6 Filter Ring

The lens has a 46mm filter thread. The front element does not rotate when zooming or focusing, which is beneficial for using polarizing or graduated neutral density filters.



Image: Front view of the Panasonic LUMIX G Vario 14-42mm lens with its lens cap removed.



Image: Side view of the Panasonic LUMIX G Vario 14-42mm lens, showing the zoom and focus rings.

## 5. MAINTENANCE

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## 5.1 Cleaning the Lens

- Use a lens blower brush to remove dust and loose particles from the lens surface.
- For smudges or fingerprints, use a clean microfiber lens cloth with a small amount of lens cleaning solution. Wipe gently in a circular motion from the center outwards.
- Avoid touching the lens elements directly with your fingers.

## 5.2 Storage

- Always attach the front and rear lens caps when the lens is not in use to protect the glass elements.
- 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.

## 5.3 Handling Precautions

- This lens features a plastic construction, including the lens mount. Handle with care to prevent damage from drops or impacts.
- Avoid excessive force when attaching or detaching the lens.

# 6. TROUBLESHOOTING & PERFORMANCE CONSIDERATIONS

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## 6.1 Image Quality

- **Sharpness:** Optimal sharpness is generally achieved between F4 and F6. Sharpness may decrease slightly at apertures wider than F3.5 or narrower than F8, and at the telephoto end (above 25mm).
- **Lens Distortion:** Some barrel distortion may be noticeable at the 14mm wide-angle setting. This can often be corrected using image editing software.
- **Chromatic Aberration/Purple Fringing:** Minor chromatic aberration may be present, particularly in high-contrast areas. This can typically be reduced with post-processing software.
- **Flaring:** When shooting directly into bright light sources, such as the sun at 14mm, some lens flare may occur. Using the included lens hood can help mitigate this.

## 6.2 Low Light Performance

Due to its variable maximum aperture of F3.5-5.6, this lens is not ideal for shooting in very low light conditions without additional illumination or higher ISO settings. For optimal low-light performance, a lens with a wider constant aperture (e.g., F1.7 or F2.8) is recommended.

# 7. SPECIFICATIONS

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Image: Side view of the Panasonic LUMIX G Vario 14-42mm lens, illustrating its compact size.

Feature	Description
Brand	Panasonic
Model Name	14 - 42 mm / F 3,5 - 5,6 II G VARIO ASPH (H-FS1442A)
Lens Type	Digital Interchangeable Zoom Lens (Wide Angle)
Compatible Mountings	Micro Four Thirds
Focal Length	14-42mm (35mm equivalent: 28-84mm)
Maximum Aperture	F3.5 (Wide) - F5.6 (Tele)
Minimum Aperture	F22
Lens Construction	9 elements in 8 groups (including 2 aspherical lenses)
Image Stabilization	MEGA O.I.S. (Optical Image Stabilization)
Focus Type	Auto/Manual
Minimum Shooting Distance	0.2m (Wide) / 0.3m (Tele) from imaging surface
Maximum Magnification	0.17x (35mm equivalent: 0.34x)
Photo Filter Size	46mm
Item Weight	Approx. 110g (3.88 oz)
Water Resistance Level	Not Water Resistant

## 8. WARRANTY AND SUPPORT

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For warranty information and customer support, please refer to the documentation included with your product or visit the official Panasonic website. Keep your proof of purchase for warranty claims.