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Raynox HD-3037PRO

Raynox HD 3037 Pro Semi-Fisheye 0.3X Instruction Manual

Model: HD-3037PRO

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1. Introduction

This manual provides essential instructions for the proper use, setup, and maintenance of your Raynox HD 3037 Pro Semi-Fisheye 0.3X converter. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

2. Product Overview

The Raynox HD 3037 Pro is a high-resolution semi-fisheye attachment converter designed to expand the viewing angle of 4K/HD camcorder lenses. This attachment allows your camcorder to capture a significantly wider field of view, making it ideal for capturing expansive landscapes or fitting more into your frame. It features a robust optical design with two tempered glass lenses in two groups, ensuring high image quality.



Figure 1: Raynox HD 3037 Pro Semi-Fisheye 0.3X converter. This image shows the compact design of the lens converter, ready for attachment to a compatible camcorder.

3. Setup

To attach the Raynox HD 3037 Pro converter to your camcorder:

1. Ensure your camcorder's lens has a **37 mm screw-on thread**. This converter is designed for direct attachment to lenses with this specific thread size.
2. Carefully align the converter's screw-on thread with the filter thread on your camcorder's lens.
3. Gently rotate the converter clockwise until it is securely fastened. Avoid overtightening.
4. Confirm that the converter is firmly attached and stable before use.

Note: The extreme viewing angle of this converter means that a front thread for additional filters is not available.

4. Operation

The HD 3037 Pro is designed for use with camcorders, extending the viewing angle. Here are key operational guidelines:

- **Zoom Range:** The converter is optimized for a zoom range of up to 1:6 (equivalent to a 6x zoom) on compatible camcorders. Within this range, the focus is generally retained.
- **Focal Length Factor:**
  - For digital cameras: approximately 0.3x (diagonal) or 0.42x (horizontal).
  - For camcorders: approximately 0.34x (diagonal) or 0.44x (horizontal).
- **Image Quality:** The HD-3037PRO achieves a high resolution capacity of 520 line pairs per millimeter in the image center at an MTF contrast of 30%.
- **Vignetting:** When using a zoom range larger than 6x or with incompatible camcorders, vignetting (darkening at the corners of the image) and increasing edge blur may occur. Adjust your zoom settings to minimize these effects.

5. Maintenance

Proper care will ensure the longevity and performance of your converter:

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, a small amount of lens cleaning fluid can be applied to the cloth (not directly to the lens).
- **Dust Removal:** Use a blower brush to remove dust particles from the lens surfaces. Avoid wiping dry lenses, as this can cause scratches.
- **Storage:** When not in use, store the converter in a clean, dry place, preferably in its original case or a protective pouch, away from direct sunlight and extreme temperatures.
- **Avoid Impact:** Protect the converter from drops or impacts, which can damage the optical elements or housing.

6. Troubleshooting

If you encounter issues with your Raynox HD 3037 Pro, consider the following:

- **Vignetting or Edge Blur:**
  - Ensure your camcorder's zoom is within the recommended 1:6 (6x) range. Exceeding this range can cause these effects.
  - Verify compatibility with your specific camcorder model. Some camcorders may exhibit these issues more prominently.
- **Unclear or Out-of-Focus Images:**
  - Check that the converter is securely attached to the camcorder lens.
  - Clean the lens surfaces of both the converter and your camcorder lens for any smudges or dust.
  - Ensure your camcorder's autofocus system is functioning correctly or adjust manual focus if applicable.
- **Difficulty Attaching:**
  - Confirm your camcorder lens has a 37 mm filter thread. The converter is not compatible with other thread sizes.
  - Ensure threads are clean and free of debris.

7. Specifications

Model Number	HD-3037PRO
Type	Semi-Fisheye Attachment Converter
Focal Length Factor (Diagonal)	0.3x (Digital Camera), 0.34x (Camcorder)
Focal Length Factor (Horizontal)	0.42x (Digital Camera), 0.44x (Camcorder)
Optical Design	2 lenses in 2 groups, tempered optical glass
Resolution Capacity	520 line pairs/mm (center, MTF 30%)
Screw-on Thread	37 mm
Front Filter Thread	Not applicable (due to extreme viewing angle)
Length	45 mm
Diameter	70 mm
Weight	143 g (5.6 ounces)
Compatible Mountings	Camcorder

8. Warranty & Support

For detailed information regarding warranty coverage, terms, and conditions for your Raynox HD 3037 Pro Semi-Fisheye 0.3X converter, please refer to the official Raynox website or contact their customer support directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: Raynox

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