

Digital Nc 0.21XDCRHC23

Sony DCR-HC23 0.21x High Grade Fish-Eye Lens Instruction Manual

Model: 0.21XDCRHC23

1. INTRODUCTION

This manual provides comprehensive instructions for the proper use, installation, and maintenance of your Digital Nc 0.21x High Grade Fish-Eye Lens. Please read this manual thoroughly before using the product to ensure optimal performance and longevity. This lens is designed to expand the field of view of your Sony DCR-HC23 camcorder, offering a unique 180° diagonal angle of view for creative photography and videography.

2. PRODUCT OVERVIEW

The 0.21x High Grade Fish-Eye Lens is a specialized optical accessory designed to create a wide, hemispherical image. It features multi-coated optical glass for reduced glare and enhanced clarity, housed within a durable metal casing. Its ultra-compact design makes it a convenient addition to your camera kit.

- **0.21x (Fisheye) High Definition Digital Lens:** Provides an extreme wide-angle perspective.
- **Multi-Coated Optical Glass:** Ensures high image quality and reduces reflections.
- **Metal Casing:** Offers robust protection for the optical elements.
- **Optical Infrared Glass:** Designed for optimal performance across various light conditions.
- **Ultra Compact:** Dimensions: 0.9" (2.3cm), Weight 0.5 lbs (0.226 kg).



Figure 2.1: Front view of the 0.21x High Grade Fish-Eye Lens, showing its compact design and "HIGH DEFINITION 0.21X FISHEYE LENS" inscription.

3. PACKAGE CONTENTS

Please verify that all the following items are included in your package:

- 0.21x High Grade Fish-Eye Lens
- Lens Cap (front)
- Lens Bottom Cover (rear)
- Protective Pouch
- Stepping Ring 25mm-37mm

- Nwv Direct Micro Fiber Cleaning Cloth



Figure 3.1: The 0.21x Fish-Eye Lens shown with its protective front and rear caps, and the stepping ring.

4. SETUP

Follow these steps to properly attach the fish-eye lens to your Sony DCR-HC23 camcorder:

1. **Identify Camera Thread Size:** Determine the filter thread size of your camcorder's existing lens. The Sony DCR-HC23 typically has a 25mm filter thread.
2. **Attach Stepping Ring (if necessary):** The 0.21x Fish-Eye Lens has a 37mm thread. If your camcorder's lens has a 25mm thread, first screw the provided 25mm-37mm stepping ring onto your camcorder's lens. Turn clockwise until secure, but do not overtighten.
3. **Attach Fish-Eye Lens:** Carefully align the threads of the 0.21x Fish-Eye Lens with the threads of the stepping ring (or directly to your camcorder's lens if it has a 37mm thread). Screw the fish-eye lens onto the stepping ring (or camcorder lens) in a clockwise direction until it is firmly attached. Ensure it is level and not cross-threaded.
4. **Remove Lens Caps:** Remove the front and rear lens caps from the fish-eye lens before use.

Note: Always handle the lens by its metal casing and avoid touching the glass elements to prevent fingerprints and smudges.

5. OPERATING THE LENS

Once attached, the 0.21x Fish-Eye Lens will dramatically alter the field of view of your camcorder. Here are some operational considerations:

- **Wide Angle Effect:** The lens provides a 180° diagonal angle of view, creating a strong visual distortion intended to make straight lines appear curved, especially at the edges of the frame. This is characteristic of a fish-eye lens.
- **Focus:** Most fish-eye lenses have a very deep depth of field, meaning a large range of distances will appear in focus. Your camcorder's autofocus system should adapt, but manual focus may be used for specific creative effects.
- **Vignetting:** Depending on your camcorder's zoom setting and sensor size, you may observe some vignetting (darkening) at the corners of the image, especially at the widest zoom setting. This is normal for extreme wide-angle adapters.
- **Creative Use:** Experiment with close-up shots to exaggerate perspective, or use it for landscapes and architectural photography to capture a vast scene with a unique, distorted perspective.



Figure 5.1: Visual comparison demonstrating the effect of the 0.21x Fish-Eye Lens. The standard image shows a normal perspective, while the fish-eye image displays the characteristic wide-angle distortion and curved horizon.

6. MAINTENANCE

Proper care and maintenance will extend the life of your lens and ensure continued high-quality performance.

- **Cleaning the Lens:**
 - a. Use a blower brush to remove dust and loose particles from the lens surface.
 - b. Gently wipe the lens with the provided Nwv Direct Micro Fiber Cleaning Cloth. For stubborn smudges, a small amount of lens cleaning solution applied to the cloth (not directly to the lens) may be used.
 - c. Do not use abrasive materials or harsh chemicals.
- **Storage:** When not in use, always attach the front and rear lens caps and store the lens in its protective pouch. Store in a cool, dry place away from direct sunlight and extreme temperatures.

- **Handling:** Avoid dropping the lens or subjecting it to strong impacts, as this can damage the optical elements or casing.

7. TROUBLESHOOTING

If you encounter issues with your fish-eye lens, consider the following common solutions:

- **Blurred Images:**
 - Ensure the lens is securely attached and not cross-threaded.
 - Check if the lens surfaces are clean and free of smudges or dust.
 - Verify your camcorder's focus settings.
- **Dark Corners (Vignetting):**
 - This is a common characteristic of extreme wide-angle lenses, especially when used with certain camera sensors or at the widest zoom settings. Try slightly zooming in with your camcorder if possible to reduce the effect.
- **Lens Not Attaching:**
 - Confirm the correct stepping ring (25mm-37mm) is being used and that your camcorder's lens thread size matches the stepping ring's smaller diameter.
 - Ensure threads are clean and free of debris.

If problems persist, contact customer support for further assistance.

8. SPECIFICATIONS

Feature	Description
Lens Type	Fisheye
Magnification	0.21x
Angle of View	180° Diagonal
Optical Construction	Multi-Coated Optical Glass, Optical Infrared Glass
Casing Material	Metal
Front Filter Thread	Not applicable (fixed design)
Rear Mount Thread	37mm
Dimensions (Approx.)	0.9" (2.3cm) height
Weight (Approx.)	0.5 lbs (0.226 kg)
Manufacturer	VIVI-Optics
Model Number	0.21XDCRHC23

9. WARRANTY AND SUPPORT

This product is manufactured by VIVI-Optics. For information regarding warranty coverage, technical support, or service, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for any warranty claims.

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