## Raynox DCR-250

# Raynox DCR-250 Super Macro Snap-On Lens Instruction Manual

Model: DCR-250

## 1. Product Overview

The Raynox DCR-250 Super Macro Snap-On Lens is designed to enhance the macro capabilities of your existing camera lens. It features a universal snap-on mount, making it compatible with lenses that have a filter size ranging from 52mm to 67mm. This conversion lens allows for significantly closer focusing distances, enabling detailed macro photography without the need for a dedicated macro lens.

When attached, the DCR-250 achieves its maximum macro magnification when your camera's zoom lens is set to its most telephoto position. This provides an accessible and effective solution for capturing intricate details of small subjects.



Image 1: Raynox DCR-250 Super Macro Snap-On Lens with its universal adapter.

## 2. Package Contents

Verify that all items are present in your package:

- Raynox DCR-250 Super Macro Conversion Lens
- Universal Snap-On Adapter (compatible with 52mm to 67mm filter sizes)
- Protective lens caps
- Storage case




Image 2: The Raynox DCR-250 lens and its adapter as typically packaged.

## 3. Setup

Follow these steps to properly attach the DCR-250 lens to your camera:

1. **Prepare Your Camera Lens:** Ensure your camera's primary lens is clean and free of dust. The DCR-250 is designed for use with lenses having a filter thread diameter between 52mm and 67mm.

2. **Attach the Universal Snap-On Adapter:** The DCR-250 comes with a universal snap-on adapter. Gently press the adapter onto the front of your camera lens until it securely clips into place. The adapter's flexible design allows it to fit various filter sizes within its specified range.
3. **Mount the DCR-250 Lens:** Once the adapter is securely attached, screw the Raynox DCR-250 macro lens into the threaded front of the snap-on adapter. Ensure it is tightened firmly but do not overtighten.




Image 3: The Raynox DCR-250 lens attached to a camera lens via the snap-on adapter.

### Video: Attaching the Raynox DCR-250

Video 1: This video demonstrates the unboxing and attachment process of the Raynox DCR-250, providing visual guidance on how to set up the lens for use.

## 4. Operating the Lens

The DCR-250 is designed for super macro photography. To achieve optimal results:

- **Zoom to Telephoto:** For maximum macro magnification, set your camera's zoom lens to its longest focal length (telephoto position).
- **Manual Focus Recommended:** Due to the extremely shallow depth of field in macro photography, manual focusing is often recommended for precise control. Adjust your camera's focus ring until your subject is sharp.
- **Adjust Working Distance:** The working distance (distance between the front of the lens and the subject) will be significantly reduced. Experiment to find the optimal distance for your desired magnification.

- **Lighting:** Macro photography often requires additional lighting due to the close working distance and smaller apertures used for increased depth of field. Consider using external light sources or ring flashes.

## Sample Macro Shots



Image 4: A detailed macro shot of a butterfly on a flower, showcasing the magnification capabilities.



Image 5: An intricate macro photograph of a beetle on a leaf, highlighting fine textures.



Image 6: A very close-up view of a small insect, demonstrating the extreme detail achievable.

## Video: Snap-On Macro Sample Footage

Video 2: This video provides sample footage of waterdrop photography using a snap-on macro lens, illustrating its practical application.

Video 3: Another sample video demonstrating the high-definition macro capabilities of a snap-on macro lens.

## 5. Maintenance

To ensure the longevity and optimal performance of your Raynox DCR-250 lens:

- **Cleaning:** Use a soft, lint-free microfiber cloth specifically designed for optics to clean the lens surfaces. For stubborn smudges, use a small amount of lens cleaning fluid applied to the cloth, not directly to the lens.
- **Storage:** Always store the lens with its protective caps on and inside the provided storage case when not in use. This protects it from dust, scratches, and impacts.
- **Avoid Extreme Conditions:** Do not expose the lens to extreme temperatures, high humidity, or direct sunlight for prolonged periods.

## 6. Troubleshooting

Here are some common issues and potential solutions:

- **Difficulty Focusing:** Macro photography has a very shallow depth of field. Ensure you are using manual focus for precise control. Adjust your distance to the subject carefully.
- **Dark Images/Insufficient Light:** The close working distance can block ambient light. Use external lighting such as a ring light or flash.
- **Vignetting (Dark Corners):** This can occur, especially with wider-angle lenses or at certain zoom settings. Experiment with different focal lengths on your primary lens or slightly crop the image in post-processing.
- **Chromatic Aberration:** Some color fringing may appear in high-contrast areas. This is a common optical phenomenon and can often be corrected in photo editing software.

## 7. Specifications

| Feature | Detail |
|---|---|
| Model Number | DCR-250 |
| Brand | Raynox |
| Lens Type | Macro Conversion Lens |
| Focal Length Description | 250 millimeters (when used as a conversion lens) |
| Compatible Mountings | Universal Snap-On (fits 52mm to 67mm filter size) |
| Product Dimensions | 2.09 x 0.71 x 0.71 inches |
| Item Weight | 2.1 ounces |

| | |
|---|---|
| Manufacturer | Raynox |

## 8. Warranty and Support

For specific warranty information, please refer to the documentation included with your purchase or contact Raynox customer support directly. Keep your proof of purchase for any warranty claims.

For technical assistance or further inquiries, please visit the official Raynox website or consult your retailer.

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