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- › [Raynox](#) /
- › [Raynox MSN-202 1.5x Super Macro Lens User Manual](#)

## Raynox MSN-202

# Raynox MSN-202 1.5x Super Macro Lens Instruction Manual

Model: MSN-202

[Overview](#)   [Setup](#)   [Operation](#)   [Maintenance](#)   [Introduction](#)   [Product](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

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This manual provides detailed instructions for the proper use and care of your Raynox MSN-202 1.5x Super Macro Lens. Please read this manual thoroughly before using the product to ensure optimal performance and longevity. Retain this manual for future reference.

## 2. PRODUCT OVERVIEW

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The Raynox MSN-202 is a high-quality 1.5x super macro conversion lens designed to enhance the macro capabilities of your existing camera lens. It allows for extreme close-up photography, revealing intricate details of small subjects. This lens is engineered for enhanced performance and incorporates the latest technical developments in optical design.



Figure 2.1: Front view of the Raynox MSN-202 1.5x Super Macro Lens, showing its optical elements and branding.



Figure 2.2: The Raynox MSN-202 lens attached to a camera, demonstrating its compact profile when in use.



Figure 2.3: The Raynox Universal Adapter UAC3500, which may be used to attach the MSN-202 to various lens filter threads.

### 3. SETUP

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The MSN-202 is a conversion lens that attaches to the front filter thread of your existing camera lens. It is compatible with various camera lenses, often requiring a step-up or step-down ring, or a universal adapter

like the Raynox UAC3500.

### 3.1 Attaching the Lens

1. **Identify your camera lens filter thread size:** Check the front of your camera lens or its specifications for the filter thread diameter (e.g.,  $\varnothing$ 52mm,  $\varnothing$ 58mm).
2. **Determine adapter requirement:** If your camera lens filter thread size does not directly match the MSN-202's mounting thread (typically 37mm), you will need an appropriate step-up or step-down ring, or a universal adapter. The Raynox UAC3500 adapter is designed for lenses with filter threads from 52mm to 67mm.
3. **Attach the adapter (if needed):** Screw the step ring or universal adapter onto the front filter thread of your camera lens. Ensure it is securely fastened but do not overtighten.
4. **Attach the MSN-202:** Carefully screw the Raynox MSN-202 lens onto the adapter or directly onto your camera lens's filter thread. Turn clockwise until it is snug. Avoid cross-threading.

**Note:** For optimal results, it is recommended to use the MSN-202 with a prime lens or a zoom lens set to its telephoto end, as this often provides the best working distance and image quality.

## 4. OPERATING INSTRUCTIONS

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Using the Raynox MSN-202 requires careful attention to focus and working distance due to the extreme magnification it provides.

### 4.1 Focusing

- **Manual Focus Recommended:** While autofocus may function, manual focus typically offers greater precision for macro photography with the MSN-202.
- **Achieving Focus:** Instead of rotating the focus ring on your camera lens, it is often easier to achieve focus by physically moving the camera closer to or further from your subject. Small movements can make a significant difference.
- **Depth of Field:** Macro photography inherently has a very shallow depth of field. Use a smaller aperture (higher f-number) to increase the depth of field, though this will require more light.

### 4.2 Working Distance

The working distance (distance between the front of the macro lens and the subject) with the MSN-202 is very short. Be prepared to position your camera very close to your subject. This short working distance is characteristic of high-magnification macro lenses.

### 4.3 Lighting

Due to the close working distance and often smaller apertures used, adequate lighting is crucial. Consider using external light sources such as ring lights, macro flashes, or continuous LED lights to illuminate your subject evenly and brightly.

### 4.4 Stability

Even minor camera shake can significantly impact image sharpness at macro magnifications. Using a sturdy tripod and a remote shutter release or timer is highly recommended to minimize vibrations.



Figure 4.1: Example macro image of a watch face, demonstrating the detail captured by the MSN-202 lens.



Figure 4.2: A more magnified macro image of the watch face, highlighting the fine textures and markings.

## 5. MAINTENANCE

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Proper care and maintenance will ensure the longevity and optical performance of your Raynox MSN-202 lens.

- **Cleaning the Lens:** Use a soft, lint-free microfiber cloth specifically designed for optical surfaces. For

stubborn smudges, use a small amount of lens cleaning fluid applied to the cloth, not directly to the lens.

- **Dust Removal:** Use a blower brush or compressed air (specifically for optics) to remove dust particles from the lens surface before wiping.
- **Storage:** When not in use, store the lens in a clean, dry place, preferably in a lens pouch or case, with both front and rear caps attached to protect the optical elements from dust and scratches.
- **Avoid Extreme Conditions:** Do not expose the lens to extreme temperatures, high humidity, or direct sunlight for extended periods.

## 6. TROUBLESHOOTING

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Here are some common issues and their potential solutions when using the Raynox MSN-202.

- **Difficulty Focusing:**
  - Ensure you are using manual focus on your camera.
  - Adjust focus by moving the camera physically closer to or further from the subject, rather than relying solely on the lens's focus ring.
  - Check if your camera lens is set to its telephoto end (if it's a zoom lens).
- **Dark Images:**
  - Increase your ISO setting (be mindful of noise).
  - Use a wider aperture (smaller f-number) if depth of field allows.
  - Add external lighting (e.g., macro flash, ring light).
- **Soft or Blurry Images:**
  - Ensure the lens is securely attached and clean.
  - Use a tripod and remote shutter to eliminate camera shake.
  - Verify accurate focus; even slight movements can cause blur at macro magnifications.
  - Consider using a slightly smaller aperture to increase sharpness and depth of field.
- **Vignetting (Dark Corners):**
  - This can occur if the adapter or the primary lens's focal length is not ideal. Try zooming in slightly if using a zoom lens.
  - Some vignetting may be inherent with certain lens combinations and can often be corrected in post-processing.

## 7. SPECIFICATIONS

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<b>Model Name</b>	MSN-202
<b>Magnification</b>	1.5x (Super Macro)
<b>Product Dimensions</b>	4 x 1.7 x 4 inches
<b>Item Weight</b>	2.08 ounces
<b>Manufacturer</b>	Raynox

<b>Lens Type</b>	Macro Conversion Lens
<b>Compatible Mountings</b>	Requires adapter for various lens filter threads (e.g., Sony mentioned in description, but generally universal with adapters)
<b>Optical Design</b>	High Definition Lens



Figure 7.1: Front view of the Raynox MSN-202 product packaging, highlighting key features.



Figure 7.2: Back view of the Raynox MSN-202 product packaging, showing additional details and specifications.

## 8. WARRANTY AND SUPPORT


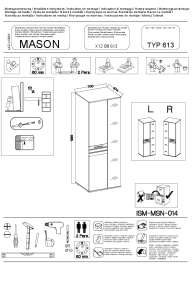
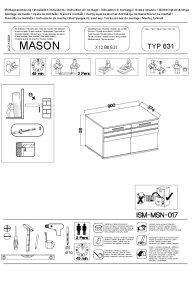
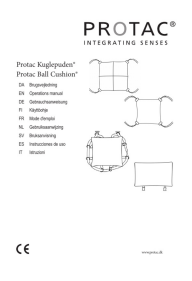
Raynox products are manufactured to high standards. Specific warranty details may vary by region and retailer. Please refer to the warranty card included with your purchase or visit the official Raynox website for the most current warranty information.

For technical support, product inquiries, or service, please contact your authorized Raynox dealer or the Raynox customer service department. Contact information can typically be found on the manufacturer's website or product packaging.

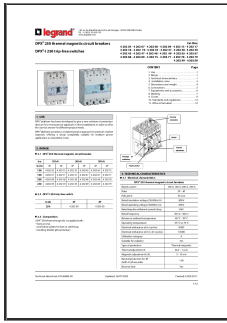
**Important:** Keep your proof of purchase for warranty claims.

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### Related Documents - MSN-202

	<p><a href="#">Raynox Product Safety Instructions and Guidelines</a></p> <p>Important safety instructions and handling guidelines for Raynox products, including the DCR-250 Super Macro Conversion Lens, to ensure safe usage and prevent damage.</p>
	<p><a href="#">MASON Wardrobe Assembly Instructions   Xonox Home</a></p> <p>Comprehensive assembly guide for the MASON wardrobe (Model X12 B8 613, Type TYP 613) by Xonox Home. Includes parts list, step-by-step instructions, and care advice.</p>
	<p><a href="#">MASON Vanity Unit Installation Instructions</a></p> <p>Comprehensive installation guide for the MASON vanity unit, including parts list, assembly steps, and care instructions.</p>
	<p><a href="#">Protac Kuglepuden® Brugervejledning og Produktspecifikationer</a></p> <p>Denne brugervejledning giver detaljeret information om Protac Kuglepuden®, et sansestimulerende hjælpemiddel designet til at forbedre koncentration, balance og kropsbevidsthed. Inkluderer brugsanvisninger, sikkerhedsforanstaltninger, vedligeholdelse og garantiinformation.</p>





[Legrand DPX³ 250 Thermal Magnetic Circuit Breakers - Technical Data Sheet](#)

Comprehensive technical specifications for Legrand DPX³ 250 thermal magnetic circuit breakers and DPX³-I 250 trip-free switches, detailing electrical performance, installation, dimensions, and compliance with IEC/EN standards.