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› [zowietek](#) /

› Zowietek 5-50mm 12MP C-Mount Zoom Lens User Manual

zowietek 57029-551

Zowietek 5-50mm 12MP C-Mount Zoom Lens User Manual

Model: 57029-551

INTRODUCTION

This manual provides comprehensive instructions for the Zowietek 5-50mm 12MP C-Mount Low Distortion Zoom Lens. This lens is designed for use with Zowietek POV cameras, ZowieCAM CS mount models, IMX477 Raspberry Pi HQ Cameras, and industrial telescopes. It features manual controls for focus, aperture, and zoom, offering precise adjustments for various imaging requirements. Please read this manual thoroughly before using the product to ensure proper operation and longevity.

WHAT'S IN THE BOX

Verify that all items are present upon unboxing:

- Zowietek 5-50mm C-Mount Lens
- C-CS Adapter

SETUP

Follow these steps to properly attach the lens to your compatible camera:

1. **Prepare the Lens and Adapter:** Identify the C-CS adapter. If your camera has a CS mount, you will need to use the provided C-CS adapter. If your camera has a C mount, the adapter is not required.
2. **Attach C-CS Adapter (if needed):** Screw the C-CS adapter onto the rear of the lens. Ensure it is securely fastened but do not overtighten.
3. **Mount the Lens:** Carefully align the lens (with or without the C-CS adapter, as appropriate) with the camera's lens mount. Gently screw the lens into the camera mount until it is firm. Avoid forcing the lens, as this can damage the threads on either the lens or the camera.
4. **Remove Lens Caps:** Remove the front and rear lens caps before operation.

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This image illustrates the key components of the Zovietek 5-50mm C-Mount Zoom Lens. It highlights the **Zoom Ring**, used for adjusting the focal length; the **Aperture Ring**, for controlling the lens opening; and the **Focus Ring**, for achieving sharp images. The **C-CS Adapter**, essential for mounting the lens on compatible cameras, is also shown.



Note: only lens, camera not included

This image displays the Zowietek 5-50mm C-Mount Zoom Lens securely mounted onto a camera body, demonstrating its physical integration for operational use.

OPERATING

The Zowietek 5-50mm lens features manual controls for precise image capture. Refer to the labeled diagram in the Setup section for ring identification.

1. Adjusting Zoom (Focal Length)

Rotate the **Zoom Ring** to change the focal length between 5mm (wide angle) and 50mm (telephoto). This allows you to adjust the field of view and magnification of your subject.

2. Adjusting Aperture (Iris)

Rotate the **Aperture Ring** to control the amount of light entering the lens and to adjust the depth of field. A smaller F-number (e.g., F2.8) indicates a wider aperture, allowing more light and creating a shallower depth of field. A larger F-number (e.g., F22) indicates a narrower aperture, allowing less light and creating a greater depth of field.

3. Adjusting Focus

Rotate the **Focus Ring** to achieve a sharp image of your subject. Turn the ring until the subject appears clear and well-defined in your camera's display or viewfinder. For optimal results, adjust focus after setting your desired zoom and aperture.

MAINTENANCE

Proper care and maintenance will extend the life and performance of your lens.

- **Cleaning the Lens:** 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 solution applied to the cloth, not directly to the lens.
- **Dust Removal:** Use a blower brush to remove dust particles from the lens surface before wiping. Avoid using abrasive materials or harsh chemicals.
- **Storage:** When not in use, keep the lens caps on and store the lens in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the lens to strong impacts, as this can affect its optical alignment and mechanical components.

TROUBLESHOOTING

If you encounter issues with your Zowietek lens, refer to the following common problems and solutions:

- **Blurry Images:**
 - Ensure the **Focus Ring** is properly adjusted for your subject distance.
 - Check that the lens surfaces are clean and free of smudges or dust.
 - Verify that the camera's settings (e.g., shutter speed, ISO) are appropriate for the lighting conditions.
- **Difficulty Adjusting Rings:**
 - The rings are designed for manual operation. If they feel excessively stiff, ensure no foreign objects are obstructing their movement. Do not force them.
 - Extreme temperatures can sometimes affect the feel of mechanical parts. Allow the lens to acclimate to a moderate temperature.
- **Vignetting or Dark Corners:**
 - Ensure the lens is fully compatible with your camera's sensor size. While this lens supports various sensor sizes, improper matching can sometimes lead to vignetting.
 - Check if any attached filters are causing the issue.

If the problem persists, please contact Zowietek customer support for further assistance.

SPECIFICATIONS

Feature	Specification
Brand	Zowietek
Model Number	57029-551
Focal Length	5-50mm
Lens Type	Telephoto Zoom
Compatible Mountings	C Mount

Feature	Specification
Compatible Camera Models	Zowietek POV camera / ZowieCAM CS mount model, IMX477 Raspberry Pi HQ Camera
Maximum Aperture	F2.8
Focus Type	Manual Focus
Zoom Ratio	10x
Image Stabilization	No image stabilization
Video Capture Resolution	12MP
Effective Still Resolution	12 MP
Exposure Control Type	Manual
Photo Filter Size	35.5 Millimeters
Item Weight	105 Grams
Operating Temperature	-20°C to 60°C
Water Resistance Level	Not Water Resistant

WARRANTY & SUPPORT

Warranty Information: The Zowietek 5-50mm 12MP C-Mount Zoom Lens comes with a **1 Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use during the warranty period.

Customer Support: For technical assistance, warranty claims, or any questions regarding your Zowietek product, please contact Zowietek customer support. You can typically find contact information on the official Zowietek website or through your purchase platform.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question