

VILTROX DG-Z Tubi

VILTROX DG-Z Auto Focus AF Macro Extension Tube Set Instruction Manual

Model: DG-Z Tubi

1. PRODUCT OVERVIEW

The VILTROX DG-Z Auto Focus AF Macro Extension Tube Set is designed for Nikon Z-Mount mirrorless cameras, including models such as Zfc, Z5, Z50, Z6, Z6II, Z7, and Z7II. This set includes two extension tubes, 12mm and 24mm, which can be used individually or combined to achieve various levels of macro magnification. These extension tubes function by moving the lens further from the camera's sensor, effectively decreasing the minimum focusing distance and increasing magnification. They feature electronic contacts to maintain full communication between the camera body and the lens, supporting automatic diaphragm, TTL (Through-The-Lens) metering, and AE (Automatic Exposure) modes. Since there are no optical elements within the tubes, they do not degrade image quality.



Image 1.1: The VILTROX DG-Z Macro Extension Tube Set, showing the 12mm and 24mm tubes.

2. SETUP AND INSTALLATION

Follow these steps to properly attach the VILTROX DG-Z Macro Extension Tubes to your camera and lens:

- 1. Prepare Equipment:** Ensure your camera is powered off. Remove the lens from your camera body and the rear cap from your lens. Remove the front and rear caps from the extension tube(s) you intend to use.
- 2. Attach Tube to Camera:** Align the red or white index mark on the extension tube with the corresponding mark on your camera body. Insert the tube into the camera mount and rotate it clockwise until it clicks securely into place.
- 3. Attach Lens to Tube:** Align the index mark on your lens with the corresponding mark on the front of the attached extension tube. Insert the lens into the tube mount and rotate it clockwise until it clicks securely into place.
- 4. Combining Tubes:** If using both the 12mm and 24mm tubes, attach the first tube to the camera body, then attach the second tube to the first, and finally attach the lens to the second tube. Ensure all connections are secure. The 24mm tube can be attached to the camera first, followed by the 12mm tube, or vice-versa, depending on preference.

EXTREME CLOSE UP SHOTS



► Transforms your non-macro lens into a professional-grade macro photography tool

Image 2.1: A VILTROX DG-Z extension tube mounted on a Nikon Z-Mount camera body.



Image 2.2: Illustration of combining the 12mm and 24mm extension tubes to achieve 36mm magnification.

3. OPERATING INSTRUCTIONS

Once the extension tubes are securely attached, your standard lens will function as a macro lens. The closer the lens is moved from the sensor, the greater the magnification achieved.

- **Automatic Functions:** The integrated electronic contacts ensure that your camera's automatic diaphragm, TTL metering, and AE functions remain operational. This allows for automatic exposure control and, in most cases, autofocus.
- **Focusing:** Due to the significantly reduced focusing distance in macro photography, precise focusing is crucial. While autofocus is supported, manual focusing may offer greater control for critical sharpness. Experiment with different apertures to control depth of field, which becomes very shallow at high magnifications.
- **Magnification:** Using the 12mm tube provides a certain level of magnification. The 24mm tube provides greater magnification. Combining both tubes (12mm + 24mm = 36mm) will yield the highest magnification.

MACRO

MAGNIFICATION

12MM,24MM and (12MM+24MM=36MM) automatic extension tubes with aluminum mount can be combined or used individually



★ 24mm tube (Tube 1)

★ 12mm tube (Tube 2)

Combination (12mm+24mm=36mm)



12MM+24MM=36MM

24MM

12MM

Image 3.1: Visual comparison of magnification levels using 12mm, 24mm, and combined 36mm extension tubes.

Macro Photography



Image 3.2: An example of macro photography setup with the extension tube, capturing a detailed image of an ant.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your VILTROX DG-Z Macro Extension Tubes.

- **Cleaning:** Use a soft, dry, lint-free cloth to wipe the exterior of the tubes. For dust on the electronic contacts, use a clean, dry cotton swab or a specialized lens cleaning pen. Avoid using liquid cleaners directly on the contacts.
- **Storage:** When not in use, store the extension tubes with their front and rear caps attached to prevent dust and debris from entering. Keep them in a dry, cool place away from direct sunlight and extreme temperatures.
- **Handling:** The tubes are constructed from metal. Handle them carefully to avoid dropping or impacting them, which could damage the mounts or internal electronic components.



Image 4.1: Detailed view of the electronic contacts and robust metal construction of the extension tubes.

5. TROUBLESHOOTING

If you encounter issues while using your VILTROX DG-Z Macro Extension Tube Set, consider the following:

- **Lens or Camera Not Recognizing Tube:** Ensure that the extension tube(s) and lens are fully and securely

mounted to the camera body. Listen for the distinct click when attaching. Check that the electronic contacts on both the tube and the camera/lens are clean and free from obstruction.

- **Autofocus Issues:** While the tubes support autofocus, macro photography often presents challenges for AF systems due to shallow depth of field and close working distances. If autofocus struggles, switch to manual focus for greater precision. Ensure sufficient lighting for the subject.
- **Tube Getting Stuck:** If an extension tube becomes difficult to attach or remove, do not force it. Gently rotate while applying slight pressure to the release button. Ensure proper alignment before attempting to attach or detach. Inspect the mounting rings for any debris or damage.
- **Exposure Problems:** Verify that your camera is set to an appropriate exposure mode (e.g., Aperture Priority or Manual) and that ISO and shutter speed are adjusted for the reduced light transmission inherent in macro photography.

6. SPECIFICATIONS

Model	DG-Z Tubi
Compatibility	Nikon Z-Mount Mirrorless Cameras (Zfc, Z5, Z50, Z6, Z6II, Z7, Z7II)
Tube Lengths	12mm, 24mm (can be combined for 36mm)
Electronic Contacts	Yes, supports Auto Focus, Auto Diaphragm, TTL, AE
Optical Elements	None
Material	All-metal construction
Item Weight	5.6 ounces (approx. 159g)
Package Dimensions	3.86 x 3.7 x 3.23 inches (approx. 9.8 x 9.4 x 8.2 cm)



Image 6.1: The 12mm and 24mm VILTROX DG-Z extension tubes shown stacked.

7. WARRANTY AND SUPPORT

For any product-related inquiries, technical support, or warranty claims, please contact VILTROX customer service. Refer to the product packaging or the official VILTROX website for the most current contact information. You can also visit the official VILTROX store for more information and support: [VILTROX Official Store](#)