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VILTROX DG-C

VILTROX DG-C Auto-Focusing Macro Lens Extension Tube User Manual

Model: DG-C

1. INTRODUCTION

The VILTROX DG-C Auto-Focusing Macro Lens Extension Tube set is designed to transform your existing Canon EF/EF-S series lenses into macro lenses. These tubes allow for closer focusing distances, enabling macro photography without requiring a dedicated macro lens. The set includes three tubes of different lengths (12mm, 20mm, and 36mm) that can be used individually or combined to achieve various magnification levels.

The extension tubes maintain electronic communication between your camera and lens, supporting auto-focus and exposure control. They feature metal bayonets with surface plating for durability and gold-plated pins for stable signal transmission.

2. PRODUCT COMPONENTS

The VILTROX DG-C set includes three extension tubes of varying lengths:

- 12mm Extension Tube
- 20mm Extension Tube
- 36mm Extension Tube



Image: The three individual VILTROX DG-C extension tubes.

These tubes can be used independently or combined in various configurations to achieve different magnification ratios. The set also includes front and rear caps for protection when not in use.

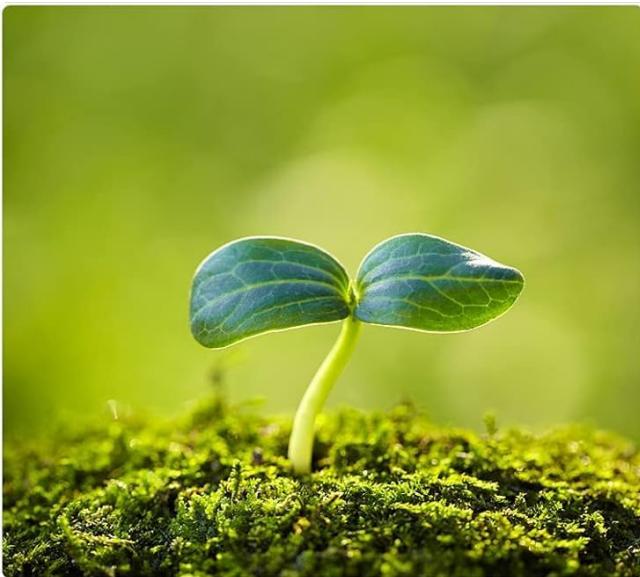


Image: The VILTROX DG-C extension tubes assembled.

3. COMPATIBILITY

The VILTROX DG-C extension tube set is compatible with:

- **Lenses:** Canon EF / EF-S Series Lenses
- **Cameras:** Canon DSLR Cameras including 1D, 1Ds, 5D, 5DII, 5DIII, 5DIV, 6D, 6DII, 7D, 7DII, 10D, 20D, 30D, 40D, 50D, 60D, 70D, 77D, 80D, 90D, 100D, 200D, 400D, 450D, 500D, 550D, 600D, 650D, 700D, 750D, 760D, 800D, 850D, 1000D, 1100D, 1200D, 1300D, 1500D, 2000D, 4000D, 8000D, Rebel T8i, T7i, T7, T6s, T6i, T6, T5i, T5, T4i, SL3.



The Sprouting Process Of Nature



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Image: Compatibility diagram for Canon EOS cameras and EF/EF-S lenses.

4. SETUP AND INSTALLATION

Follow these steps to attach the extension tubes to your camera and lens:

- 1. Attach Tube to Camera:** Align the red dot on the extension tube (or the first tube if combining multiple) with the red dot on your camera body. Rotate the tube clockwise until it clicks into place, indicating a secure connection.
- 2. Attach Lens to Tube:** Align the red dot on your lens with the red dot on the front of the attached extension tube. Rotate the lens clockwise until it clicks into place.
- 3. Combining Multiple Tubes (Optional):** If using multiple tubes, attach them to each other in the desired order (e.g., 12mm, then 20mm, then 36mm) before attaching the entire assembly to the camera and then the lens. Ensure each connection clicks securely.

Installation Method And Packing List



1. Align the red dot on the adapter ring with the red dot on the body



2. Rotate clockwise, Install in place after sound



3. Align the red dot on the lens with the red dot on the adapter ring



4. Rotate clockwise, Install in place after sound



Packing Box



Connection Ring Combination
(Including Front And Rear Covers)



Manual

Image: Installation steps for attaching extension tubes to a camera and lens.

To detach, press the lens release button on the camera (or tube) and rotate counter-clockwise.

5. OPERATING INSTRUCTIONS

5.1 Tube Combinations

The three tubes (12mm, 20mm, 36mm) can be used individually or combined to achieve seven different lengths and magnification ratios:

- 12mm
- 20mm
- 36mm
- 12mm + 20mm (32mm total)
- 12mm + 36mm (48mm total)
- 20mm + 36mm (56mm total)

- 12mm + 20mm + 36mm (68mm total)

5.2 Focusing Recommendations

When using extension tubes, the focusing distance of your lens changes significantly. Please note the following:

- **Auto-Focus:** Auto-focus functionality is generally maintained with a single extension tube. However, when combining two or three tubes, auto-focus may become less reliable or difficult to achieve.
- **Manual Focus:** For optimal results and precise focusing, especially when using multiple tubes or with focal lengths less than 70mm, it is recommended to switch your camera to manual focus (MF) mode.
- **Focal Length Consideration:** If your lens's focal length is less than 70mm, it is generally not recommended to combine two or three rings simultaneously, as this can make focusing challenging.

Focus Distance Refer To The Table

Note: We don't recommended to combine 2 or 3 rings at same time if the focal length is less than 70mm.

The auto focus is easy when mount ONE ring , but difficult for 2 or 3 . we suggest to set your camera in MF .

There is a little difference for EF and EF-S lens .

eg : Canon EF 24-105mm Llens			eg: Canon EF 70-200mm		
Combination	focal length	Focusing distance	Combination	focal length	Focusing distance
36+20+12	105	15	36+20+12	200	75
	70	4		100	14
				70	6
36+20	105	20	36+20	200	77
	70	6		100	17
				70	8
36+12	105	22	36+12	200	100
	70	7		100	20
				70	9
20+12	105	27	20+12	200	150
	70	10		100	33
				70	15
36	105	24	36	200	130
	70	9		100	27
	50	3		70	13
20	105	45	20	200	240
	70	20		100	55
	50	8		70	27
	105	75			

12	70	35			
	50	15			
eg: Canon EF S 18-55mm lens					
Combination	focal length	Focusing distance	Combination	focal length	Focusing distance
	36+20+12	55		36	55
	36+20	55		20	55
	36+12	55		12	55
12+20	55	13			

Image: Focus Distance Reference Table for various lens and tube combinations.

6. MAINTENANCE

To ensure the longevity and optimal performance of your VILTROX DG-C extension tubes, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the exterior of the tubes. For the electronic contacts, use a clean, dry cotton swab. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the extension tubes in a dry, dust-free environment, preferably in their original packaging or a protective pouch, when not in use. Ensure the front and rear caps are attached to prevent dust and debris from entering.
- **Handling:** Handle the tubes carefully to avoid dropping them or subjecting them to impact, which could damage the internal electronics or mechanical components.
- **Moisture:** Keep the tubes away from water and high humidity. If they become wet, dry them immediately with a soft cloth.

7. TROUBLESHOOTING

If you encounter issues while using your VILTROX DG-C extension tubes, consider the following:

- **No Auto-Focus or Exposure Control:**
 - Ensure all connections (camera to tube, tube to tube, tube to lens) are securely clicked into place.
 - Check the gold-plated electronic contacts on both the tubes and your lens/camera for dirt or damage. Clean them gently if necessary.
 - If using multiple tubes, try using a single tube to see if auto-focus functions. Auto-focus performance can decrease with increased extension.
 - Verify your camera and lens are compatible with the DG-C tubes.
- **Difficulty Focusing:**
 - Macro photography requires very precise focusing. Switch to manual focus mode for better control.
 - Consider using a tripod to stabilize your camera setup.

- If using multiple tubes, the working distance (distance between the front of the lens and the subject) becomes very short. Adjust your distance to the subject carefully.

- **Loose Connection:**

- Ensure the tubes are rotated clockwise until they firmly click into place.
- Inspect the bayonet mounts for any physical damage or debris that might prevent a secure fit.

8. SPECIFICATIONS

Model	DG-C
Brand	VILTROX
Color	Black
Material	Metal / ABS
Inner Diameter	62mm
Tube Lengths	12mm, 20mm, 36mm
Electronic Contacts	8-pin gold-plated
Compatible Mountings	Canon EF
Lens Type	Macro (with extension tubes)
Item Weight	5.3 ounces
Package Dimensions	3.5 x 2.83 x 2.76 inches

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your VILTROX DG-C Auto-Focusing Macro Lens Extension Tube, please refer to the documentation included with your purchase or visit the official VILTROX website. Contact information for customer service is typically available on the product packaging or the manufacturer's support page. You can visit the VILTROX Store for more product information:[VILTROX Official Store](#)