

DG-M43 EXTENSION TUBE for Micro Four Thirds (10mm, 16mm)

Instructions

DG-M43 EXTENSION TUBE for Micro Four Thirds is an accessory designed for use Micro Four Thirds lenses to shoot at closer distance with higher magnification.

Since the magnification changes according to the focal length of the lens, you can easily make close-up shots of small subjects, insects or flower. Furthermore, electronic signals between the camera and lens are transferred through the electronic contacts of the Viltrox DG-M43 EXTENSION TUBE for Micro Four Thirds, enabling you to use all of the camera's shooting modes. But depending on the shooting conditions, exposure compensation is required.

Specifications

Size/Weight: Φ 57 × 10mm / 48 g (Approx)
Size/Weight: Φ 57 × 16mm / 70 g (Approx)

Precautions

When using the extension TUBES alone (10mm or 16mm) or combination (10mm + 16mm = 26mm), the focal length of lens should be greater than the length (10mm 16mm or 26mm) of the TUBE/TUBES used.

Suitable lenses are from standard to telephoto as well as macro (micro) lenses. Wide-angle zoom lenses are also usable, but depending on how the lens is combined with the TUBE the distance between lens front and subject may become extremely close.

Mounting the DG-M43

1. Mount the TUBE onto the lens first. Align the TUBE's dot (for the lens) with the lens's dot. Then turn the TUBE clockwise until it stops with a click. Be sure to keep the electronic contacts clean to ensure proper connection.
2. Mount the combined TUBE to camera body in the same way as mounting the lens to the camera.
3. When using 1 or 2 TUBES in combination, they can be combined freely.
4. To dismount the TUBE and lens from the camera, depress the release button on the camera and turn the TUBE counterclockwise.
5. To dismount the lens from the TUBE, depress the release button on the TUBE and turn the lens counterclockwise.

Other Precautions

1. In close-up shooting, as the subject's depth of field becomes shallow, never forget to stop down the lens.
2. Take care that when image magnification ratio increases camera shake is also liable to increase. (The use of tripod is advisable)

Image Magnification Ratios and Exposure Factors (50mm Standard Lens)

Extension Tube	Distance Reading of Master Lens	Image Magnification Ratio	Field Coverage (cm)	Exposure Factor
10mm	inf	0.2	6.5×8.7	1.44
	0.5	0.31	4.2×5.6	1.72
16mm	inf	0.32	4.1×5.4	1.74
	0.5	0.43	3.0×4.0	2.04
10+16mm	inf	0.52	2.5×3.3	2.31
	0.5	0.63	2.1×2.7	2.66

- ⊙ The above table shows general values for 50mm standard lenses. Even with standard lenses individual lenses may have actual values slightly different from these.
- ⊙ Image Magnification Ratio is the ratio in size (lengths) between the subject and the image formed on the film surface. For example, Image Magnification Ratio 0.24x means that a 1cm subject becomes $1 \times 0.24 = 0.24$ Or makes a picture of 0.24cm size on the film surface.
- ⊙ When using an extension tube of same length, the image magnification ration becomes smaller as the focal length of master lens becomes longer and the larger as the focal length becomes shorter. Also, the distance to the subject becomes further away as the focal length of master lens becomes longer and closer when it becomes shorter.

