LAOWA 10mm T2.1 Cine

使用手册
Instruction Manual

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LAOWA 老蛙

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PREFACE

Thank you very much for purchasing LAOWA 10mm T2.1 Cine wide-angle lens. This ultra-wide-angle lens is designed for Micro Four Thirds system. This lens is compact and light in weight. Read this operation manual carefully to familiarize yourself with its contents and ensure that you can operate the product properly.

⚠ *Keep the Instruction Manual in a safe place where it can easily be referenced whenever required. If you are still unable to solve the problem by reading the manual, please contact our after-sales service for further technical support.*

FEATURES

- The lens is extremely compact and lightweight. It measures φ 56mm*47mm in size and weighs only around 150g. Using it with MFT cameras, the whole set is compact and easy to carry.
- The all-metal structure ensures the lens' assembly accuracy and reliability.
- The lens is constructed by 11 optical elements in 7 groups with 2 aspherical lenses and 3 ED lenses to deliver excellent sharpness.

PRECAUTIONS

⚠ Safety Precautions

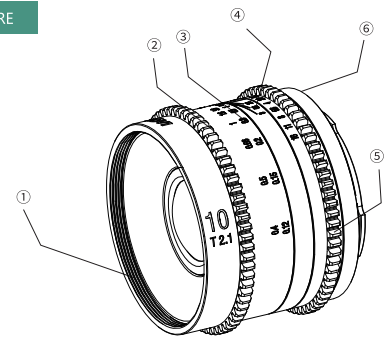
- Do not disassemble, modify the lens by yourself. Do not touch the internal parts that become exposed as the result of external force.
- Do not leave the lens where it will be exposed to high temperatures, such as in direct sunlight and an enclosed vehicle. Excessive heat may deform the glass elements and other parts of the lens.
- Whether it is attached to the camera or not, do not leave the lens under the sun without the lens cap attached. This is to prevent the lens from concentrating the sun's rays, which could cause a fire.
- Do not place the sun in the frame center when shooting with backlight. Doing so might cause a fire or harm your eyes.
- The camera's built-in flash will cause barrel shadow if used with this lens. For best results, please only use an external flash unit.

PRECAUTIONS

Maintenance Precautions

- Do not touch the surface of the lens directly. Brush off any dust with a blower. Wipe the surface with a cleaning cloth or a lens tissue.
- Try a circular motion from the center outward to remove oil, fingerprints and grime on the lens surface.
- If your lens is brought directly from a cold place to a warm place, condensation may appear on the lens. To avoid this, be sure to take some action to protect the lens.

NOMENCLATURE



①Filter (lens cap) mounting thread ③Distance (magnification) scale ⑤Aperture ring
②Focus ring ④Depth of field scale ⑥Lens mounting index

To attach the Lens

- Remove the rear lens cap. Align the mounting index⑥ on the lens bayonet with the mounting index on the camera, and place the lens on the camera mount, then rotate the lens according to the proper direction of the mount type until it locks. Do not use excessive force during installation to avoid damage to the bayonet.

To remove the lens

- Turn the camera off. While pressing and holding the lens release button on the camera, rotate the lens in the reverse direction for attaching the lens until it stops, then detach the lens.

- After attaching the lens, please try to rotate the lens to make sure it mounted onto the camera properly.

Focusing

- This is a fully manual lens. Rotate the focusing ring② slowly to get focus.
- Turn the focus ring slowly and gently to prevent the focus mechanism from damage.
- The distance scale③ and depth of field scale④ are for instructional purposes. Actual focus and DOF may slightly differ from those scale indications.
- To get precise focus, it is recommended to focus wide open when the camera position is fixed. Get focus first, then set the desired aperture by turning the aperture ring.
  Turn on the focus peaking on the camera to help focusing. (Note that the function depends on camera models.)

Setting the Aperture

- Aperture is set through the aperture ring on the lens. According to the shooting situation and desired depth of field, rotate the aperture ring⑤ on the lens to the corresponding aperture.
- Since the lens has no CPU data, the aperture value can't be recorded.

Focusing Tips

Method 1 Magnification Priority
①Set the magnification first, and then turn the focus ring to the desired magnification mark on the lens.
②Check the frame by viewfinder or [Live View] on the camera and try to get focus by moving the camera back and forth until obtaining the proper focal length.
③Rotate the focus ring to achieve precise focus.

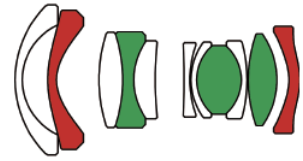
Method 2 Framing Priority
Set the frame first. Turn the focus ring while you are checking the image through viewfinder or [Live View] on the camera, and then follow steps 2, 3 as the method 1 above.

- *For high magnification close-ups, because of the extremely short working distance, please be careful not to touch the subject.*
- *Magnification refers to the proportional relationship between the size of an image recorded on a sensor or film and the actual size of the subject.*

SPECIFICATIONS

MFT 10mm T2.1 Cine	
Lens No.	MFT 10mm T2.1 Cine
Format	MFT
Focal Distance	10mm
T-stop Range	2.1-22
Angle of View	96°
Lens Construction	11 elements/ 7 groups (ED glass x3, aspherical glass x2)
Aperture Blades	5
Min. Shooting Distance	12cm
Max. Magnification	0.15x
Focusing	MF
Filter Thread	Φ49mm
Dimensions	Φ56mm*47mm
Weight	150g
Mounts	MFT

LENS CONSTRUCTION



Extra-low Dispersion Glass
Aspherical Glass