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LAOWA FF15mm F5.0 Cookie

使用手册

Instruction Manual

LAOWA 老蛙

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Please note we reserve the right to change our product's
design and specifications at any time without notice and
to the final interpretation of the *Instruction Manual*.



Preface

Thank you very much for purchasing LAOWA FFII 15mm F5.0 Cookie wide-angle lens. It is the full-frame mirrorless ultra-wide-angle lens that has miniaturized design, a light weight and a small volume.



 *For operational safety, please read the manual and precautions carefully before using this product, and keep the manual at a place that is easily accessible when needed. If you encounter a problem that cannot be solved, please ask for technical support through email.*

Features

- 1. The lens is the cookie-style lens with the dimension of only $\phi 67.1\text{mm} \times 42\text{mm}$ and the weight of 160g. It can be used with the full-frame camera. It has a small volume, and thus can be carried around easily.
- 2. The lens provides a 15mm focal length and the angle of view is 110° . Thanks to its optical property of “zero” distortion, all the horizontal and vertical lines in the images are in right positions. With the design of 5 aperture blades, 10-rayed sunstar effects can be easily shot in small aperture situations.
- 3. There are 13 elements in 9 groups internally, including 4 ED glasses and 2 aspherical glasses, which provides high-quality imaging. The outer has a mechanical structure made of all-metal material, which guarantees the durability of the lens for long-term use.
- 4. Sony E bayonet is designed for electronic aperture, which enables users to adjust the aperture and record shooting information on the camera.

Precautions

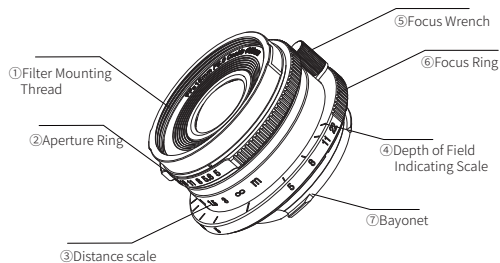
■ ⚠ Safety Precautions

- 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 use an external flash unit.

■ 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.

Name of each part



Instructions

■ To attach the Lens

Remove the rear lens cap. Align the mounting index ⑦ 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 installing the lens, try rotating it to make sure it is fixed to the camera.

■ Focusing

This is a fully manual lens. Rotate the focusing ring ⑥ slowly to get focus.

Turn the focus ring slowly and gently to prevent the focus mechanism from damage.

The distance scale ③ and DOF scale ④ 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 ring on the lens to the corresponding aperture.

Sony E bayonet is designed for electronic aperture, which enables users to adjust the aperture on the camera. Other bayonets have no CPU data, therefore, the aperture value cannot be recorded.

Specifications

LAOWA FF15mm F5.0 Cookie	
Format Compatibility	Full frame
Focal Length	15mm
Aperture Range	F5-F22
Angel of View	110°
Lens Structure	13 elements in 9 groups (aspherical*2, ED*4, HR*3)
Aperture Blades	5
Min. Focusing Distance (Object Image Distance)	0.12m
Max. Magnification	0.2X
Focus Mode	Manual (MF)
Filter Thread	Φ39mm
Dimensions	About φ67.1mm*42mm
Weight	About 160g (without front and rear cap)
Mounts	Leica M, Sony E, Nikon Z, Canon RF, L

