CF 12-24mm F5.6 Zoom Shift

使用手册
Instruction Manual

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LAOWA 老蛙

Preface

Thank you very much for purchasing LAOWA CF 12-24mm F5.6 Zoom Shift wide angle zoom shift lens. This is a shift lens for mirrorless APS-C systems. It adopts professional shift design, which can produce more excellent shots.

⚠ *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 compact and lightweight with the dimension of ϕ 80mm*98.9mm and the weight of about 600g. It can be used on APS-C cameras. It has good handling and is portable.
- 2.Focal length of the lens ranges from 12mm to 24mm and the angle of view ranges from 84°to 121.9°. Due to its optical characteristic of low distortion, all the horizontal and vertical lines in the images are in right positions.
- 3.The lens consists of 15 elements in 11 groups, including 3 ED glasses and 2 aspherical glasses, which can bring high quality imaging. The lens is all-metal constructed, ensuring its durability for long-term use.
- 4.In the process of shooting buildings, usually the camera is located closer to the building due to environmental limitations. Therefore, some other lenses may not even be possible to capture the full view of the building. However, 12-24mm lens with a wide angle of view can complete the shooting task in an effective space easily. By utilizing an offset of ± 7mm, the lens can make shooting more rigorous and buildings that are shot by the lens will not have perspective change even though affected by close shooting distance, large pitch angle and wide focal length.

Precautions

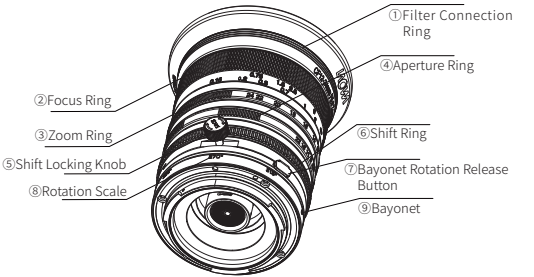
⚠ Safety Precautions

- 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 vignetting 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



To attach the Lens

Remove the rear lens cap. Align the mounting index ⑨ on the lens bayonet with the mounting index on the camera. 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, please try rotating it to make sure it is fixed to the camera.

Focusing

For the manual focus version, rotate the focus ring ② slowly to get focus.
Turn the focus ring slowly and gently to prevent it from damage.
The distance scale on the lens is for instructional purposes. Actual focus may slightly differ from those scale indications.
To get precise focus, it is recommended to focus wide open when the camera 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.
Since this is a manual focus lens with no CPU data, the aperture values cannot be recorded.

Shift Function

The shift function can make the optical axis of the lens move away from the center of the image parallelly.
When shoot buildings with a regular lens, the buildings will gradually become smaller because of the effect of perspective. However, if you shift the lens after making the camera parallel to the buildings, the problem of perspective can be solved.

When shooting a reflective subject, you can move the camera to let it out of the frame. Then, use the shift function to shoot. This allows you to make the camera not appear in the reflective side without changing the composition of the shooting.

Using the Shift Function

1.Loosen the shift locking knob ⑤.
2.Turn the shift ring ⑥ to adjust the amount of shift.
3.When the desired amount of shift is reached, tighten the locking mechanism.

Rotation Function

The rotation function allows you to change the direction of shift by turning the shift device. When the lens is mounted on the camera, press the rotation release button ⑦ and then turn the shift device.
The rotation device can be rotated ±180° and the lens can be locked by setting a limit at every position of 15°.

Specifications

CF 12-24mm F5.6 Zoom Shift	
Format Compatibility	APS-C
Focal Distance	12-24mm
Aperture Range	F5.6-22
Angle of View	FF (121.9°- 84°) CF (102.5°- 63.9°)
Lens Structure	15 elements in 11 groups(2 Aspherical glasses, 3 ED glasses)
Aperture Blades	9
Focus Throw	105°
Aperture Throw	28°
Focus Scale	Foot/Meter
Min. Focusing Distance (Object Image Distance)	15cm
Max. Magnification	0.4
Focus Mode	Manual (MF)
Filter Thread	ϕ77mm
Dimensions	Ø80mm*98.91mm
Weight	About 604g (Without front cap and rear cap)
Mount	E、L、R、X、Z、EF-M