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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*.



前言

真诚地感谢您选购 LAOWA FF Π 15mm F5.0 Cookie广角镜头。此镜头是无反全画幅系统超广角镜头,采用迷你化设计,轻便小巧。



为了操作上的安全,使用本产品前请务必详细阅读使用手册与注意事项,并将手册放在需要时容易取得的地方。如遇到不能解决的问题请通过售后电话获取技术支持。

主要特色

- 1、镜头采用饼干头风格化设计,大小仅有 $\phi 67.1\text{mm} \times 42\text{mm}$,重量160g,搭配在全画幅机身上使用,体积小巧,轻便携带。
- 2、15mm焦段,视场角 110° ,“零”畸变的光学特性,画面中的线条横平竖直。5片光阑叶片设计,可以小光圈情况下轻松拍摄出十针耀眼光芒。
- 3、内部有9组13片镜片,包含4枚异常分散玻璃和2枚非球面镜片的结构带来的高素质成像。外有全金属材料制成的机械结构,保障了镜头长期使用的耐用性。
- 4、索尼E卡口为电子光圈设计,可实现机身调节光圈,记录拍摄信息。

注意事项

△ 安全注意事项

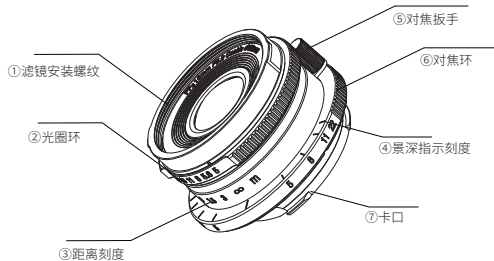
- 切勿自行拆解、修改或改装。当产品由于外力原因破损,切勿触碰外露部分或破损边缘处。
- 切勿放置于直射阳光下、封闭车辆中或其余高温处,否则过高的温度会使镜片和其他部件产生伸缩变形。
- 不使用镜头时,请将镜头前盖盖上或置于没有阳光照射处。凸透镜反射出的光线可能会聚集在附近物体上,导致发生火灾。
- 在逆光拍摄时,切勿将太阳置于画面中心,应该使太阳充分偏离画角,否则阳光会在相机内部聚集并导致火灾或灼伤眼睛。
- 在使用相机内置闪光灯拍摄时,由于镜头本身会遮挡光线而产生渐晕,因此建议您使用外设闪光灯拍摄。

注意事项

长期使用保养注意事项

- 避免触摸镜头表面,应用专用镜头布或气吹去除镜头表面的尘埃,不使用镜头时,应将镜头盖盖上。
- 使用镜头纸或镜头布清洁时,以螺旋的方式从中间向外擦拭镜头上的污垢以及指印。
- 镜头从寒冷的环境突然转移至温暖的环境时,镜头的外部以及内部镜片将会凝结水雾,所以在转移时应采取防潮保护措施。

各部件名称



使用说明

镜头安装

取下镜头后盖。将镜头卡口上的安装标记⑦对准相机座圈上的对应标记, 随后将镜头插入机身座圈, 根据所购买卡口的安装方向旋转镜头, 直至咔嚓声锁紧镜头。安装时请不要用力过猛, 以免导致卡口损伤。

镜头拆卸

关机后按住相机上的镜头释放按钮, 依照所购买卡口的安装方向反向旋转镜头, 随后将镜头从座圈中拔出。

装上镜头后, 请尝试旋转镜头确认是否已将其固定在相机上。

对焦

此款镜头是全手动对焦镜头, 合焦时, 缓慢旋转对焦环⑥, 直至合焦。

不要过猛过快地旋转对焦环, 避免用力过度损坏对焦环部件。

镜头上的距离刻度③与景深刻度④是出于指导目的。实际焦点与最深可能同刻度标记稍有不同。

如需要非常精确的对焦, 请在固定好相机位置的情况下使用最大光圈对焦, 对焦完成后再旋至所需要的光圈值。

为了对焦的方便性, 请开启相机内的峰值对焦功能(视所使用相机功能而定)。

光圈使用

光圈在镜身上调节, 根据拍摄环境和与所需要的景深, 转动光圈环来选择对应的光圈。

索尼E卡口为电子光圈设计, 可通过机身调节光圈, 其他卡口无CPU数据, 无法记录光圈参数。

规格表

LAOWA FFII 15mm F5.0 Cookie	
画幅	全画幅
焦点距离	15mm
光圈范围	F5-F22
视场角	110°
镜头结构	9组13枚 (2枚非球面、4枚ED、3枚特殊高折射玻璃)
光阑叶片	5片
最近摄影距离 (物像距离)	0.12m
最大放大倍率	0.2倍
合焦驱动方式	手动 (MF)
滤镜尺寸	Φ39mm
镜头尺寸	约Φ67.1mm*42mm
重量	约160g (不含前后盖)
卡口	徕卡M、索尼E、尼康Z、佳能RF、L





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

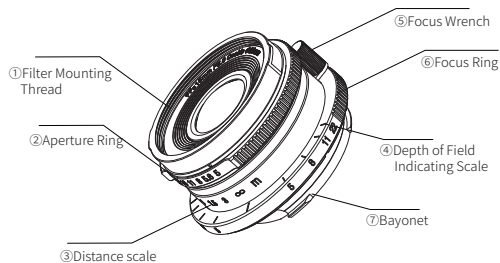
■ Safety Precautions

- 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

