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LAOWA 1.4x
Full Frame Expander

使用手册
Instruction Manual



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本公司保留对此《使用说明》的最终解释权。
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 1.4x
Full Frame Expander增倍镜。



△ 为了操作上的安全,使用本产品前请务必仔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

- 此增倍镜体积小,通用性强,可以将定焦、变焦电影镜头通过转接后,扩大像场,增加焦距。配合S35电影头上使用可以实现等效焦距为1.4倍全画幅电影头,同时光圈缩小一档,从而使得S35镜头可以在全画幅电影机上使用。例如:Laowa OOOM 25-100mm t/2.9变焦镜头,搭配使用Laowa 1.4x Full Frame Expander增倍镜,可以变成覆盖 $\phi 46.5\text{mm}$ 画幅的变焦镜头,规格变为35-140mm t/4.0。(市场上电影头只要能安装上就可以使用,但部分电影头卡口因为不同厂家后组结构不同可能无法正常安装)

注意事项

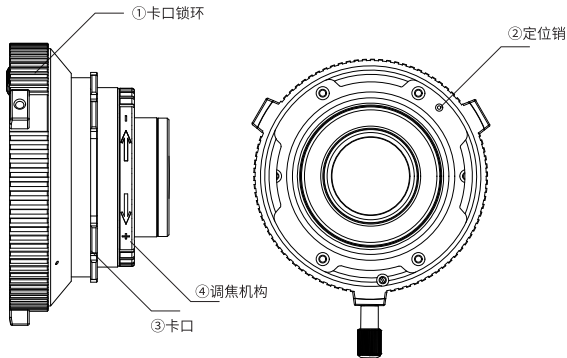
△ 安全注意事项

- 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。

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。
- 注意:由于部分RED电影机有低通滤镜挡尘板设计,增倍镜无法安装,如需使用,请自行拆卸挡尘板。

各部件名称



①卡口锁环 ②定位销 ③卡口 ④调焦机构

■ 镜头安装

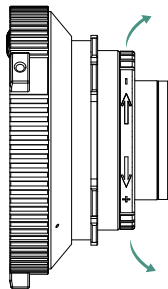
- 取下镜头前盖，将镜头卡口 (PL) 对准定位销安装上增倍镜，后旋转卡口锁环，锁止镜头，其他卡口 (EF、E) 根据卡口安装点进行安装。随后将镜头插入机身座圈，根据所购买卡口的安装方向旋转镜头，直至咔嚓声锁紧镜头。安装时请不要用力过猛，以免导致卡口损伤。
- 装上镜头后，请尝试旋转镜头确认是否已将其固定在相机上。

■ 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。PL 卡口需旋转卡口锁环进行拆卸。

■ 焦点偏移调整

- 镜头在锁定焦点后，安装增倍镜测试，如果焦点发生偏移，请左右旋转调焦机构 (如图所示) 找到合焦点，则调整完毕。



老蛙1.4x Full Frame Expander增倍镜	
放大倍率	1.4倍
结合25-100焦距	35-140mm
结合25-100 T-stop范围	4-32
像场直径	ø46.5mm
直径	ø89mm
长度	57.5mm
重量	330g
卡口	PL-PL PL-E PL-EF EF-EF EF-E

The LAOWA logo is displayed in a bold, teal-colored, sans-serif font. The letters are closely spaced, with the 'O' being a solid circle.

老蛙镜头

新创意·新乐趣



Preface

Thank you very much for purchasing
LAOWA 1.4x Full Frame Expander.



△ *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

- This 1.4x Full Frame Expander is tiny and versatile. It will expand the image circle and lengthen the focal length of a prime lens or a zoom cine lens. With the Laowa 1.4x full frame expander, you get a focal length multiplier of 1.4x, and you also lose one stop of light. This adapter allows you to expand the Super35 image circle of a lens so it can cover a full frame sensor. For example, if you use it with Laowa OOOM 25-100mm t/2.9 zoom lens, the lens will become a 35-140mm t/4.0 zoom lens covering 46.5mm image circle. (This adapter can work with most of the cine lens on the market. However, some cine lenses may not be able to be installed due to the different back element structure.)

Precautions

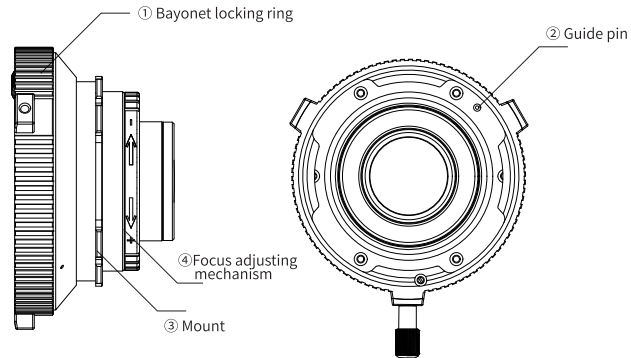
△ Safety Precautions

- Do not disassemble, modify the adapter by yourself. Do not touch the internal parts that become exposed as the result of external force.
- Do not leave the adapter 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 adapter.
- Do not leave the adapter under the sun. If sunlight is focused on a nearby object, it may cause a fire. Keep the lens cap attached when it's not in use.
- 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 the best results, please only 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 adapter is brought directly from a cold place to a warm place, condensation may appear on the adapter. To avoid this, be sure to take some action to protect the adapter
- Note: Due to the low-pass filter dust-shield design of some RED movie cameras, the expander cannot be installed. If you need to use it, please remove the dust-shield by yourself.

Nomenclature



① Bayonet locking ring ② Guide pin ③ Mount ④ Focus adjusting mechanism

To attach the adapter

- Remove the adapter's front cap. Align the guide pin on the adapter with the bayonet (PL mount), then rotate the locking ring until it locks. For other bayonets (EF/E), mount the adapter by aligning the marks and rotate the lens until it locks. 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.
- After attaching the lens, please try to rotate the lens to make sure it mounted onto the camera properly.

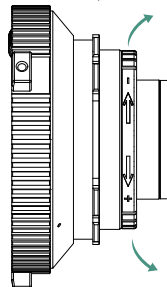
To remove the adapter

- Turn the camera off. While pressing and holding the lens release button on the camera, rotate the adapter in the reverse direction for attaching the adapter until it stops, then detaches the adapter. For PL bayonet, rotate the locking ring to remove the adapter.

Adjusting the Flange Distance

Focus shift adjustment

- After the lens gets in focus, mount the 1.4x Full Frame Expander onto the lens. If the focus shifted, try to rotate the focus adjusting mechanism (shown in the figure) left and right until getting focus again, then the adjustment is complete.



LAOWA 1.4x Full Frame Expander	
Focal length multiplier	1.4x
With 25-100 focal length	35-140mm
With 25-100 T-stop range	4-32
Image Circle Diameter	ø46.5mm
Diameter	ø89mm
Length	57.5mm
Weight	330g
Mounts	PL-PL PL-E PL-EF EF-EF EF-E

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