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LAOWA 7.5mm T2.1 Cine

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 7.5mm T2.1 Cine电影镜头。此镜头是MFT系统下的超广角镜头。为了让您充分理解本产品的使用方法和注意事项,请您在使用前仔细阅读本说明书。



⚠ 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拨打售后电话获取技术支持。

主要特色

- LAOWA 7.5mm T2.1 Cine 镜头采用了2枚双面非球面玻璃, 将镜头的体积做到极限, 同时具备了高性能、低畸变、小巧轻便的特色和优势。
- 为解决超广角大光圈带来的色散问题, 此镜头采用了3枚异常分散玻璃 (ED glass), 彻底的降低了色散像差。
- 此款镜头的机械结构全部采用金属材质, 有效保障了镜头的组装精度, 大幅提升了镜头的耐用性。
- 镜头前端第一片玻璃采用了FEG (Frog Eye Coating)蛙眼仿生防水镀膜技术, 水滴、赃物、油污不易附着。每块镜片均采用低反射多层镀膜工艺, 尽可能地消除了鬼影和炫光。

注意事项

△ 安全注意事项

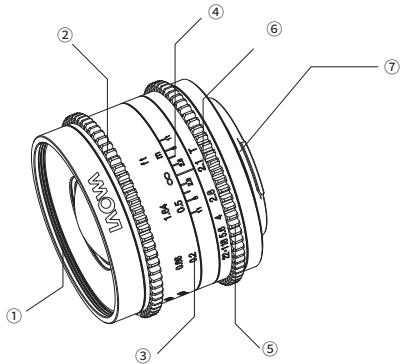
- 切勿自行拆解、修改或改装。当产品由于外力原因破损, 切勿触碰外露部分或破损边缘处。
- 切勿放置于直射阳光下、封闭车辆中或其余高温处, 否则过高的温度会使镜片和其他部件产生伸缩变形。
- 不使用镜头时, 请将镜头前盖盖上或置于没有阳光照射处。凸透镜反射出的光线可能会聚集在附近物体上, 导致发生火灾。
- 在逆光拍摄时, 切勿将太阳置于画面中心, 应该使太阳充分偏离画角, 否则阳光会在相机内部聚集并导致火灾或灼伤眼睛。
- 在使用相机内置闪光灯拍摄时, 由于镜头本身会遮挡光线而产生渐晕, 因此建议您使用外设闪光灯拍摄。

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



- ①滤光镜安装螺纹 ③距离刻度 ⑤光圈环 ⑦镜头安装标记
②对焦环 ④景深指示刻度 ⑥光圈刻度

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对准电影机座圈上的对应标记，随后将镜头插入机身座圈，根据安装方向旋转镜头，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。

镜头装卸

- 关机后按住电影机上的镜头释放按钮，依照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电影机上。

使用说明

对焦

- 此款镜头是全手动对焦镜头，合焦时，用拇指拨动拇指拨杆②，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。实际焦点与景深可能同刻度标记稍有不同。
- 如需要非常精确的对焦，请在固定好电影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。

■ 光圈使用

- 光圈在镜头上调节，根据拍摄环境和与所需要的景深，转动光圈环⑤来选择对应的光圈。
- 由于此镜头无 CPU 数据，所以暂时无法记录光圈参数。



规格表

LAOWA 7.5mm T2.1 Cine	
镜头型号	LAOWA 7.5mm T2.1 Cine
画幅	M4/3
焦点距离	7.5mm
T-stop范围	2.1-22
镜头结构	9组13片
光阑叶片	7片
最近摄影距离(物像距离)	12cm
成像覆盖范围	ø21.6mm
最大视场角	110°
前端直径	ø52mm
镜头尺寸	ø56mmX46mm
重量	170g
卡口	M4/3

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PREFACE

Thank you very much for purchasing LAOWA 7.5mm T2.1 Mirrorless Cine Lens. This lens is an ultra-wide lens for MFT cameras. Read this operation manual carefully to familiarize yourself with its contents and ensure that you can operate the product properly.



 *In order to ensure the safety of operation, please read the User's Manual and Precautions carefully before using this product, and put the Manual in a place that is easily accessible when needed. If you encounter any problem that cannot be solved, please call after-sales for technical support.*

MAIN FEATURES

- Special double-sided aspherical glass elements are incorporated into the extremely compact lens which can provide remarkable optical performance and low distortion imaging.
- Three pieces of ED (Extra-low Dispersion) glass elements are included to achieve the apochromatic effect.
- All-metal mechanical construction ensures the lens' high assembly precision and long-lasting durability.
- The Frog Eye Water-repellent Coating, known as 'FEC', applied to the first glass of the lens front element surface contributes to protecting against water droplets, smudges and oil. Multi-layer Anti-reflection (AR) Coating applied to every lens element is designed to eliminate ghosting and flare as possible.

PRECAUTIONS

⚠ Safety Precautions

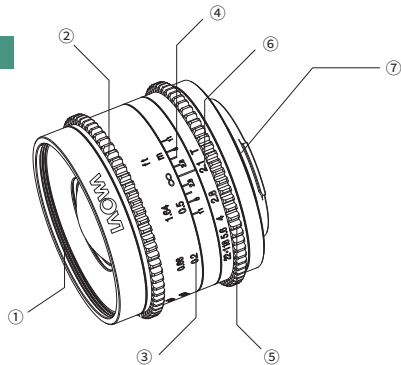
- Do not disassemble or modify the lens by yourself. If it is damaged by external force, do not touch any exposed part of the lens.
- Don't expose the lens to excessive heat such as direct sunshine or a parked car as this may deform the lens elements and other mechanisms.
- Keep the lens cap attached or place the lens in a place where there is no sunlight when storing. The light reflected by the convex lens gathering on a nearby object can 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.
- When shooting with the camera's built-in flash, the lens itself may block light and cause vignetting, an external flash is recommended in such a case.

PRECAUTIONS

■ Maintenance Precautions

- Avoid touching the lens surface. Remove the dust on the lens surface with a lens cloth or a blower. Keep the lens cap attached.
- Using a circular motion with a lens tissue or cleaning cloth, gently remove oil, fingerprints, and grime from the lens surface, working from the center outward.
- If the lens is taken from a cold environment into a warm one, condensation may develop on the lens surface and internal parts. To prevent condensation in this case, please take measures to protect against moisture before moving the lens.

NOMENCLATURE



- ① : Filter thread ② : Focusing ring ③ : Distance scale
④ : Depth-of-field scale ⑤ : Aperture ring ⑥ : Aperture scale
⑦ : Lens mounting index

DIRECTION FOR USE

■ Mounting the Lens

- Remove the lens rear cap. Align the mounting index ⑦ on your lens with the matching mounting index mark on the movie camera. Insert the lens into the movie camera and turn the lens in the attachment direction until it locks with a click. Do not apply too much force in case of damage to the

■ Detaching the Lens

- Turn the movie camera off and press the lens release button on the camera, turn the lens in the direction opposite to that for attaching, and pull it out.
- Gently turn the lens back and forth to ensure that the lens is fully attached to the movie camera.

INSTRUCTIONS

■ Focusing

- This lens is a full manual focus lens. When focusing, slowly rotate the focus ring ② until it is in focus.
- Do not over-rotate the focus ring too quickly to avoid excessive damage to the focus ring.
- The distance scale ③ and the depth of field ④ on the lens are for instructional purposes. The actual focus and depth of field may be slightly different from the tick mark.
- For very precise focus, when the camera position is fixed, use the maximum aperture to focus, and then rotate to the desired aperture value after the focus is complete.

INSTRUCTIONS

■ Aperture Instructions

- Turn the aperture ring⑤on the lens to choose the corresponding aperture according to the shooting situation and desired depth-of-field.
- As a Non-CPU lens, the camera cannot record the actual aperture value.



SPECIFICATIONS

LAOWA 7.5mm T2.1 Cine	
Model	LAOWA 7.5mm T2.1 Cine
Format	M4/3
Focal Length	7.5mm
T-stop	2.1-22
Lens Structure	13 elements in 9 groups
Aperture Blades	7
Min. Focusing Distance	12cm
Image Coverage	ø21.6mm
Maximum angle of view	110°
Front Diameter	ø52mm
Dimensions	ø56mmX46mm
Weight	170g
Mounts	M4/3

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