



微信公众账号



FACEBOOK

安徽长庚光学科技有限公司
www.laowalens.com

服务热线:400-066-1316

Email: sales@laowalens.com

电话Tel: (+86) 0551-69107990

地址: 合肥市庐阳区天水路与太和路交口庐阳中科大校友创新园5号楼

Add: Building 5, USTC Alumni Innovation Park, Crossing of Tianshui
and Taihe Road, Luyang District, Hefei City, Anhui Province, China

9mm T2.9 Zero-D Cine

使用手册

Instruction Manual



本公司保留更改产品设计与规格的权利, 届时恕不另行通知;
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 9mm T2.9 Zero-D Cine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 9mm T2.9 Zero-D Cine超广角镜头,采用了2枚双面非球面玻璃和3枚异常分散玻璃,将镜头做到极致的体积,实现了小巧轻便,同时具备高性能,近似零畸变的效果。
- LAOWA 9mm T2.9 Zero-D Cine为APS-C画幅镜头,画幅像场覆盖 $\phi 29\text{mm}$,可使用在像场 $\phi 28\text{mm}$ 的S35电影机上。
- 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),最大限度降低色散像差。
- 此款镜头的机械结构全部采用金属部件,确保了镜头的组装精度和耐用性。
- 最前方第一片镜头采用了蛙眼仿生防水镀膜FEC(Frog Eye Coating)膜层,水滴、脏物不易附着,且每块镜片均采用低反射多层膜,最大限度消除了鬼影和眩光。

注意事项

△ 安全注意事项

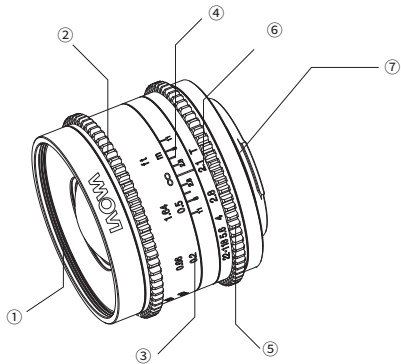
- 切勿自行拆解、修改或改装。当产品由于外力原因破损,切勿触碰外露部分或破损边缘处。
- 切勿放置于直射阳光下、封闭车辆中或其余高温处,否则过高的温度会使镜片和其他部件产生伸缩变形。
- 不使用镜头时,请将镜头前盖盖上或置于没有阳光照射处。凸透镜反射出的光线可能会聚集在附近物体上,导致发生火灾。
- 在逆光拍摄时,切勿将太阳置于画面中心,应该使太阳充分偏离画角,否则阳光会在相机内部聚集并导致火灾。

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。

■ 镜头装卸

- 关机后按住电影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机器上。

使用说明

■ 对焦

- 此款镜头是全手动对焦镜头，合焦时，缓慢旋转对焦环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。

使用说明

■ 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 9mm T2.9 Zero-D Cine	
镜头型号	LAOWA 9mm T2.9 Zero-D Cine
画幅	S35、M4/3
焦点距离	9mm
T-stop范围	2.9-22
镜头结构	10组15片
光阑叶片	7片
最近摄影距离(物像距离)	12cm
成像覆盖范围	ø29mm
最大视场角	113°/100°
前端直径	ø58mm
镜头尺寸	ø62.4mm *54mm
重量	247g
卡口	E、X、M4/3

新创意 · 新乐趣



PREFACE

Thank you very much for purchasing LAOWA 9mm T2.9 Zero-D Cine lens. Read this operation manual carefully to familiarize yourself with its contents and ensure that you can operate the product properly.



⚠ Prior to use, please read this Instruction Manual before to ensure proper use. Keep the Instruction Manual in hand and refer to it whenever needed. If you are unable to solve a problem by reading the manual, please contact our after-sales service for further technical support.

FEATURES

- This lens incorporates 2 pieces of double-sided Aspherical glass and 3 pieces of ED glass elements that offers high performance and close-to-zero distortion optical design within its extremely compact body.
- LAOWA 9mm T2.9 Zero-D Cine is designed for APS-C format, and the image coverage is $\phi 29\text{mm}$. This lens can be used on Super 35 cinema camera which image circle is $\phi 28\text{mm}$.
- This lens incorporates 3 ED glass elements to better control aberrations.
- Full-metal construction ensures the lens' assembly precision and long-lasting durability.
- The front element has adopted premium Frog Eye Coating (FEC) to repel water droplets and pollutants from sticking onto the lens, enhancing the lens' durability in frequent outdoor shooting.

PRECAUTIONS

⚠ Handling Precautions

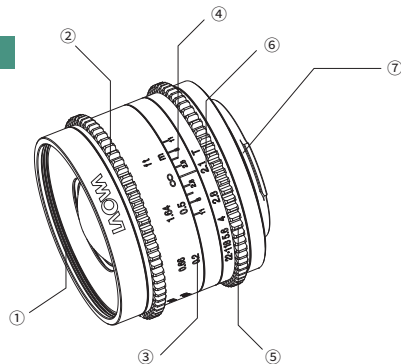
- Do not disassemble or modify the lens by yourself. Do not touch the internal parts that become exposed as the result of external force.
- Do not leave the lens where it will be exposed to high temperatures, such as in direct sunlight and an enclosed vehicle. Excessive heat may deform the glass elements and other parts of the lens.
- Do not leave the lens 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.
- When shooting with camera's built-in flash, the lens itself may block light and cause light fall-off. So external flash is recommended in such case.

PRECAUTIONS

■ Maintenance Instructions

- Do not touch the lens contacts. Clean by a lens cloth or a blower. Always place the lens cap on the lens when storing.
- Try a circular motion from the center outward when using a lens tissue or a cleaning cloth 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.

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

INSTRUCTIONS

■ Mounting the Lens

- Remove the lens rear cap. Align the Mounting index ⑦ on your lens with the matching mounting index mark on the cinema camera, then insert the lens into the camera mount and rotate it in the direction for your lens version until it locks. Do not use excessive force during installation to avoid damage to the bayonet.

■ Detaching the Lens

- Turn the camera off. Press the lens release button on the cinema camera, rotate the lens in the reverse direction for attaching the lens until it stops, then detach the lens.
- After attaching the lens, please try to rotate the lens to make sure it mounted onto the camera properly.

INSTRUCTIONS

■ Focusing

- This is a fully manual lens. Rotate the focusing ring② slowly to get focus.
- Please turn the focus ring gently to prevent the focus mechanism from damage.
- The Distance scale③and Depth-of-field scale④on the lens are for instructional purpose. Actual focus and DOF may be slightly different 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.

INSTRUCTIONS

■ Aperture Instructions

- According to the shooting situation and desired depth of field, rotate the aperture ring⑤ on the lens to the corresponding aperture.
- This lens cannot provide actual aperture value to the camera since there' s no CPU data.



SPECIFICATIONS

LAOWA 9mm T2.9 Zero-D Cine	
Model	LAOWA 9mm T2.9 Zero-D Cine
Format	S35、M4/3
Focal Length	9mm
T-stop	2.9-22
Lens Structure	10组15片
Aperture Blades	7片
Min. Focusing Distance	12cm
Image Coverage	ø29mm
Maximum angle of view	113°/100°
Front Diameter	ø58mm
Dimension	ø62.4mm * 54mm
Weight	247g
Mounts	E、X、M4/3

New Idea . New Fun .

新创意 · 新乐趣

New Idea . New Fun .