



微信公众账号



FACEBOOK

安徽长庚光学科技有限公司

[www.laowalens.com](http://www.laowalens.com)

服务热线:400-066-1316

Email: [sales@laowalens.com](mailto:sales@laowalens.com)

电话Tel: (+86) 551-69107990

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

LAOWA Proteus 45mm T2.0  
2X Anamorphic变形宽荧幕镜头

使用手册

Instruction Manual

**LAOWA 老蛙**

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 Proteus 45mm T2.0 2X Anamorphic变形宽荧幕电影镜头。此镜头是S35画幅系统变形宽荧幕镜头,前期拍摄的画幅比为4:3,后期左右拉伸成两倍即成为8:3的宽高比,约等于2.66:1。具备变形宽荧幕镜头拉丝眩光和椭圆光斑的光学特性。



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、在4:3的拍摄模式下能拍摄宽幅视频,可实现2.66:1的宽幅效果。
- 2、镜头采取专业化设计,尺寸为 $\phi 119.6 \times 182\text{mm}$ ,重量2.4 kg。
- 3、最大光圈T2.0,大光圈带来的浅景深的拍摄效果,更加突出拍摄主体,同时,在低照度的拍摄环境下,可以采用更低的感光度,让画面更加纯净。
- 4、拥有变形宽荧幕镜头特有的拉丝眩光特性,可呈现蓝色、橙色或透明的拉丝眩光。同时具备焦外椭圆光斑的光学特性。
- 5、镜头由14组17片镜片组成,能够带来高素质成像。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。

## 注意事项

### △ 安全注意事项

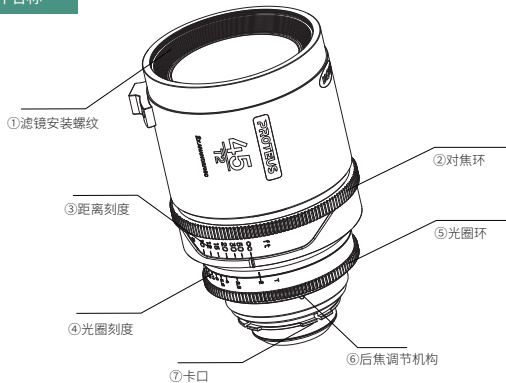
- 切勿自行拆解、修改或改装。当产品由于外力原因破损,切勿触碰外露部分或破损边缘处。
- 切勿放置于直射阳光下、封闭车辆中或其余高温处,否则过高的温度会使镜片和其他部件产生伸缩变形。
- 不使用镜头时,请将镜头前盖盖上或置于没有阳光照射处。凸透镜反射出的光线可能会聚集在附近物体上,导致发生火灾。
- 在逆光拍摄时,切勿将太阳置于画面中心,应该使太阳充分偏离画角,否则阳光会在相机内部聚集并导致火灾或灼伤眼睛。
- 在使用相机内置闪光灯拍摄时,由于镜头本身会遮挡光线而产生渐晕,因此建议您使用外设闪光灯拍摄。

## 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,采用了无级光圈设计,光圈切换没有段落感,根据拍摄环境和与所需要的景深,转动镜身光圈环来选择对应的光圈,拍摄前建议检查光圈数值,以免误触改变拍摄参数。

由于此镜头无CPU数据,无法记录光圈参数。

## 峰值对焦

1. 开启机身峰值对焦选项, 峰值颜色选择为红色或常用颜色, 峰值选项为低。
2. 通过取景器或开启Live View (实时取景) 功能观察画面, 通过峰值来观察对焦点。
3. 转动对焦环对物体进行精确对焦。

## 后焦调节

不同的电影机法兰距会有轻微出入, 如果出现焦点距离偏移, 请使用内六角螺丝刀拧松镜头尾部三颗螺丝 (如图), 通过旋转调节机构来进行后焦调节。



## 拉丝眩光

此镜头分为蓝色、橙色、透明色拉丝眩光三个版本, 可根据实际需求选择使用。

规格表


Proteus 45mm T2.0 2X Anamorphic	
焦点距离	45mm
光圈范围	T2.0 -T22
视场角	59.9°x27°
像场直径	25.92x21.6mm
变形倍率	2倍
镜头结构	14组17片
光阑叶片	10片
法兰距	PL=52mm EF=44mm
对焦行程	300°
光圈行程	60°
对焦刻度	英尺/米
最近对焦距离	0.55m
合焦驱动方式	手动 (MF)
跟焦齿距	0.8m
前置滤镜尺寸	ø105
镜头尺寸	ø119.6*182mm
重量	2.4kg
卡口	PL (赠送可更换EF卡口)



## Preface

Thank you very much for purchasing LAOWA Proteus 45mm T2.0 2X Anamorphic widescreen movie lens. This lens is an anamorphic widescreen lens for the S35 format system, with an aspect ratio of 4:3 in the early stages of shooting and an aspect ratio of 8:3 in the later stages of stretching to twice the size, which is approximately 2.66:1. It has the optical characteristics of an anamorphic widescreen lens with horizontal flare and oval bokeh.



 *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 capable of shooting wide video in 4:3 shooting mode and can achieve a 2.66:1 wide effect.
- 2.The lens adopts a specialized design with the size of  $\varnothing 119.6 \times 182 \text{mm}$  and the weight of 2.4 kg.
- 3.The maximum aperture is T2.0, which brings a shallow depth-of-field shooting effect and makes the shooting subject more prominent. At the same time, in the low-light shooting environment, you can use a lower sensitivity to make the image more pure.
- 4.The lens has the unique horizontal flare of anamorphic widescreen lenses, which can present blue, amber or silver horizontal flare. Meanwhile, it has the optical characteristics of oval bokeh.
- 5.The lens consists of 17 elements in 14 groups, which can bring high quality imaging. The external mechanical structure is made of all-metal material to guarantee the durability of the lens for long-term use.

## Precautions

### ■ Safety Precautions

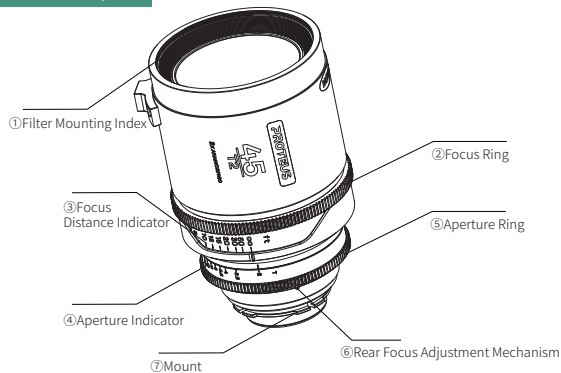
- Do not disassemble, modify, or modify the product by yourself. When the product is damaged due to external force, do not touch the exposed part or the edge along the damaged part.
- Do not place the product in direct sunlight, in a closed vehicle, or other places with high temperature, or otherwise deformation in the form of expansion or contraction of the lens and other parts will occur under an excessive temperature.
- When the lens is not in use, please cover it with the front lens cap or place it at a place out of direct sunlight. Light reflected from a convex lens can collect on nearby objects, and cause a fire.
- When shooting in backlighting, do not place the sun in the center of the frame, and the sun shall be well off the angle of picture, or otherwise the sunlight will gather inside the camera and cause a fire or burn your eyes.
- When shooting is done with the built-in flash, vignetting will occur since the lens itself blocks the light, so shooting with an external flash is recommended.



## ■ 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 mount⑦ 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, please try rotating it to make sure it is fixed to the camera.

### ■ Focusing

This is a fully manual lens. Rotate the focusing ring ② slowly to get focus.

Turn the focus ring slowly and gently to prevent the focus mechanism from damage.

The distance scale ③ and depth of field scale 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. It adopts the declicked aperture design, which allows to switch without paragraph sense. According to the shooting environment and the required depth of field, you can turn the aperture ring to select the corresponding aperture. It is recommended to check the aperture value before shooting so as not to change the shooting parameters by mistake.

Since this lens has no CPU data, the aperture values cannot be recorded.

## ■ Focus Peaking

- ① Turn on the Focus Peaking on the camera. Chose the red color or other commonly used colors. Sets the Peaking Level to low.
- ② Check the frame by the viewfinder or [Live View] on the camera and try to get focus by Focus Peaking.
- ③ Rotate the focus ring to achieve precise focus.

## ■ Rear Focus Adjustment

The flange distance of different movie machines may vary slightly. If the focal distance is shifted, please use an Allen screwdriver to loosen the three screws at the end of the lens (as shown) and adjust the rear focus by rotating the adjustment mechanism.



## ■ Horizontal flare

This lens is divided into three versions: blue horizontal flare, amber horizontal flare and silver horizontal flare, which can be used according to actual needs. The horizontal flare is shown in the figure.

## Specifications

Proteus 45mm T2.0 2X Anamorphic	
Focal Distance	45mm
Aperture Range	T2.0 --T22
Angle of View	59.9°x27°
Image Circle Diameter	25.92x21.6mm
Squeeze Ratio	2X
Lens Structure	17 elements in 14 groups
Aperture Blades	10
Flange Distance	PL=52mm EF=44mm
Focus Throw	300°
Aperture Throw	60°
Focus Indicator	Foot/Meter
Min. Focusing Distance	0.55m
Focus Mode	Manual (MF)
Follow Focus Pitch	0.8m
Front Filter Thread	ø105
Dimensions	ø119.6*182mm
Weight	2.4kg
Mounts	PL (Interchangeable EF bayonet is presented)