



微信公众账号

LAOWA FX用 镜头
STF 105mmF2.0(T3.2)
中长焦散景人像镜头

(适用佳能口、尼康口、索尼A口、索尼E口、宾得口)

使用手册
Instruction Manual

安徽长庚光学科技有限公司

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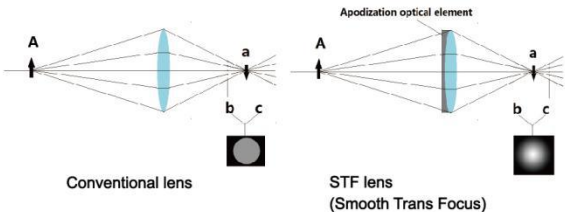
LAOWA 老蛙

真诚地感谢您选购LAOWA (老蛙) STF 105mmF2.0(T3.2) 中长焦散景人像镜头, 为了充分地理解本产品的使用方法和注意事项, 在使用前请仔细阅读本说明书。



特长

1/ LAOWA (老蛙) STF 105mm F2.0(T3.2)人像镜头是针对FULL SIZE全画幅设计的数码单反交换镜头, 本镜头在光圈附近安装了一片变迹滤镜(Apodization Filter)的光学元件,(如下图所示,左侧是传统镜头,右侧是STF镜头)使得镜头中心部分的通光量较多,而越趋向周边时通光量越少。因此,在焦外形成的虚化光斑,从中心到边缘逐渐变淡,形成比较理想的柔软虚像。焦外的虚化效果非常柔美奶油,且消除了二线虚化弊端。



特长

- 2/ 为保证从无穷远到近距离优异的成素质,此镜头采用了主合焦组和辅助合焦组两组移动合焦组,彻底地修正了因合焦而引起的解像下降问题。不论是无穷远还是近距离的成像性能,均是此规格镜头的顶级性能。
- 3/ 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。
- 4/ 此镜头还采用了双光圈结构,分别是Tno光圈和Fno光圈,Tno光圈用来控制通光量,Fno光圈控制实际物理光圈。
- 5/ 每块镜片均采用低反射多层膜,彻底的消除了鬼影和眩光。

注意事项

△ 安全注意事项

- 镜头以及安装镜头的相机，避免将镜头直接对着太阳和强光，以防灼伤眼睛或者烧坏相机的CCD/CMOS。
- 在太阳或者强光下，不使用时镜头或者安装好镜头的相机最好将镜头盖子盖好，以防灼伤CCD/CMOS或者引发火灾。

注意事项

△ 使用注意事项

- 镜头从寒冷的环境突然转移到温暖的环境时，镜头的外部以及内部镜片将会凝结水雾，所以不用时做好防湿保护。
- 防止直接强光照射，长时间暴晒的话，过高的温度会使镜片和其他部件伸缩变形，出现预想不到的故障。

各部件名称



使用说明

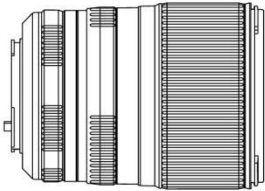
- 1/ 镜头的装卸
针对不同厂家的机身请选用对应的卡口，安装方法请参照各家机身的使用方法。
- 2/ 对焦方式
此款镜头是全手动对焦镜头，合焦时，缓慢旋转对焦环，不要过猛过快的旋转对焦环，避免用力过猛损坏对焦环部件。
- 3/ 光圈使用方法

Tno的使用方法
当拍摄视频或者普通摄影时,需要知道通光量时,请务必将Fno旋转到F2.0,利用Tno来控制亮度。请注意,两个光圈不能同时使用。

Fno的使用方法
当使用Fno光圈控制光斑大小或者通光量时,请务必将Tno旋转到最大光圈T3.2位置,请注意,两个光圈不能同时使用。

● 4/ 产品样式规格

镜头编号	STF 105mmF2.0 (T3.2)
焦点距离	105mm
Fno	2.0
Tno	3.2
视场角	23°16"
镜头结构	8组11片 (高折射率玻璃1片,低分散玻璃3片,变迹滤镜1片)
光阑叶片	F光圈9片,T光圈14枚
最小光圈	22
最近摄影距离 (物像距离)	0.9M
最大放大倍率	0.16倍
合焦驱动方式	手动 (MF)
滤镜直径	Φ67
镜头尺寸 (直径×长)	约Φ76×98.9毫米
重量	约745克





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LAOWA 105mm F2.0 (T3.2) Smooth Trans Focus

(STF) Medium Telephoto Lens

(Canon EF / Nikon AI /
Sony A / Sony FE & Pentax K mounts available)

Instruction
Manual

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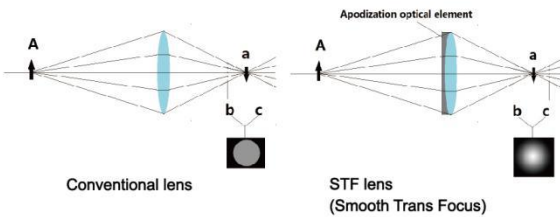
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Features

- 1/ LAOWA 105mm F2.0 (T3.2) STF Lens is designed specifically for DSLR Cameras with Full Frame camera sensor. A piece of apodization element has been inserted next to the aperture diaphragm to converge the light towards the center of the lens and reduce the amount of light gradually towards the periphery (Refers to below image). This STF design produces images with crystal sharpness at the plane of focus and at the same time, gradually melting away to form a soft, natural and beautifully diffused out of focus rendition. The bokeh formed is smooth and aesthetically pleasing with limited astigmatism.



Features

- 2/ In order to achieve an outstanding image quality during infinity focus and close distance, a system of two floating lens groups has been used. This system effectively reduces the decrease in resolution during focusing and delivers superb performance in any focusing distance.
- 3/ The enclosures and internal structural components are all made of metal to strengthen the durability.
- 4/ A dual aperture system has been adopted. The Tno aperture ring is to control the amount of light transmittance while the Fno aperture ring refers to the effective aperture opening and determines the depth-of-field produced.
- 5/ Every element has been coated with multi-layer of low reflectance coatings to eliminate the flare and ghosting.

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Thank you very much for purchasing the Laowa 105mm F2.0 (T3.2) STF Lens. Please read this instruction manual before use for the best experience with the lens.



Cautions

△ Safety Precautions

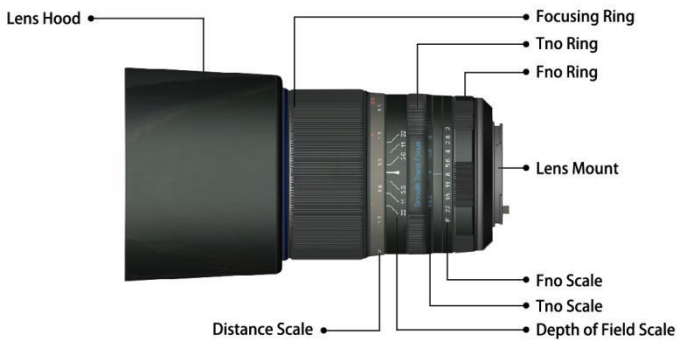
- Do not expose the lens and camera under direct sunlight to avoid causing injury to human eyes or destroying the CCD/CMOS of the camera.
- Put on the lens cap when the lens is not in use.

Cautions

△ Usage Precautions

- The glass elements are subject to forming moisture under drastic change of temperature/humidity. Store in a dry environment when the lens is not in use.
- Avoid exposing to direct sunlight. High temperature will cause the deformation of the glasses and other components inside the lens.

Names of Parts



Direction for use

- 1/ Installation of the lens
Select the suitable mounts for your cameras and refer to the lens installation of your respective camera.
- 2/ Focusing operation
This is a completely manual lens. To focus on an object, slowly turn the focusing ring until the image in the viewfinder/screen becomes sharp. Do not turn the ring with great force to prevent damaging the focusing components.
- 3/ Operation of the diaphragms

Operation of the Tno aperture ring

Fix the Fno aperture ring to F2.0 and turn the Tno aperture ring to get the true value of light transmittance during video shooting. Take special notice that both rings should not be used together.

Operation of the Fno aperture ring

Fix the Tno aperture ring at T3.2 and turn the Fno aperture ring to determine the optimal depth of field. Take special notice that both rings should not be used together.

• 4/ Product Specification

Lens Description	STF 105mmF2.0 (T3.2)
Focal Length	105mm
Maximum Aperture (Fno)	F/2.0
Maximum Aperture (Tno)	T/3.2
Angle of View	23°16"
Elements/ Groups	11/8 (High Refractive Index Element x 1pc, Low Dispersion Element x 3pcs, Apodization Element x 1pc)
Aperture Blades	F-stop: 9 T-stop: 14
Minimum Aperture	F/22
Minimum Focus Distance	0.9M
Maximum Reproduction Ratio	0.16x
Focusing	Manual Focus
Filter Thread	Φ67
Dimensions(DxL)	Φ76×98.9mm
Weight	About 745g

