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LAOWA D-Dreamer 15mm  
F2 ZERO-D FE LENS

使用手册  
Instruction Manual

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产品特点

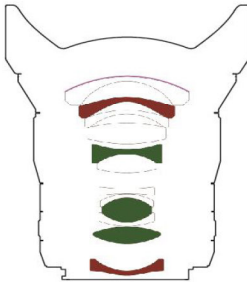
- 1) LAOWA老蛙 D-Dreamer15mm F2 ZERO-D FE无反交换式镜头采用了2枚双面非球面玻璃，将镜头的体积做到极限，同时具备了高性能、近似零畸变、小巧轻便的特色和优势。
- 2) 为解决超广角大光圈带来的色散问题，此镜头采用了3枚异常分散玻璃(ED glass)，极大的降低了色散像差。
- 3) 此款镜头的机械结构全部采用金属材质，有效保障了镜头的组装精度，大幅提升了镜头的耐用性。
- 4) 镜头前端第一片玻璃采用了FEC (Frog Eye Coating) 蛙眼仿生防水镀膜技术，水滴、脏物、油污不易附着。每块镜片均采用低反射多层镀膜工艺，尽可能地消除了鬼影和炫光。

镜头规格

镜头编号	D-Dreamer 15mm F2 ZERO-D FE
焦点距离	15mm
光圈	2.0 - 22
视场角	110°
镜头结构	9组12片（含2枚非球面玻璃, 3枚异常分散玻璃）
光阑叶片	5片
最近摄影距离（物像距离）	15cm
最大放大倍率	0.25倍
合焦驱动方式	手动（MF）
滤镜直径	Φ 72mm
镜头尺寸（直径/长）（不含罩子）	约 Φ 77.2×82毫米
重量（不含罩子）	约500克



真诚地感谢您选购LAOWA老蛙 D-Dreamer 15mm F2 ZERO-D FE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。



#### 1/镜头的装卸

请选择对应此款镜头卡口（索尼FE卡口）的相机，安装时将此镜头卡口上红色标记点对齐相机上卡口专用标记点，然后旋转镜头，当听到轻轻的咔嚓声，说明卡口固定销已经入槽，此时镜头安装完毕。

#### 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，不要过猛过快地旋转对焦环，避免用力过猛损坏对焦环部件。

#### 3/镜头入瞳（节点）使用方法

在拼片和全景摄影时，拍摄多张拼片时以此节点作为相机旋转的中心点，拍摄出来的多张照片中前后物体透视不会发生，镜头中前后的物体就不会发生位移，可保证后期拼接照片的精度，避免难看的接片破绽。

#### 4/光圈使用方法和测光方式

本镜头仅用在索尼FE卡口相机上，在A档上可以自动测光但没有光圈信息。

#### 安全注意事项

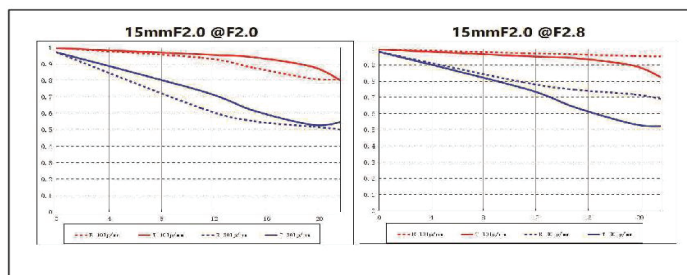
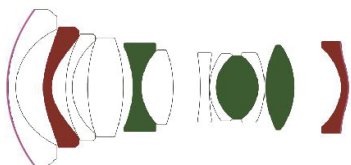
- 使用本镜头拍摄时，请避免将镜头直接对着太阳和强光，以防灼伤眼睛或者烧坏相机的CCD/CMOS。
- 在太阳或者强光下，不使用镜头或者安装好镜头的相机时，最好将镜头盖子盖好，以防磨损镜头或灼伤CCD/CMOS甚至引发火灾。

#### 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，所以请做好防水、防潮保护。
- 防止强光直接照射、暴晒，过高的温度会使镜片和个别部件伸缩变形，出现预想不到的故障。

## Zero-D

- Extra-low Dispersion Glass
- Glass Aspherical
- Frog Eye Coating(FEC)



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INSTRUCTION  
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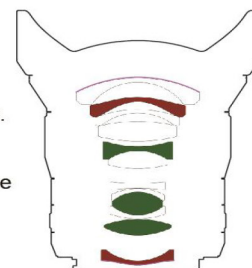
FAX : (+86 ) 551- 68100252

URL : www.laowalens.com

LAOWA 老蛙



Thank you for purchasing LAOWA  
D-Dreamer 15mm F2 ZERO-D FE Lens.  
Please read the instructions carefully  
before use to familiarize yourself with the  
lens thoroughly.



## FEATURES

- 1) LAOWA D- Dreamer15mm F2 ZERO-D FE Lens is a mirrorless interchangeable lens designed for Sony Mirrorless Cameras. Special double-sided aspherical glass elements are incorporated into the extremely compact lens which can provide remarkable optical performance and close-to-zero distortion.
- 2) Three pieces of ED (Extra-low Dispersion) glass elements are included to achieve apochromatic effect.
- 3) All-metal mechanical construction ensures lens' high assembly precision and long-lasting durability.
- 4) 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.

## SPECIFICATIONS

Model	D-Dreamer15mm F2 ZERO-D FE
Focal Length	15mm
Aperture Range	F2.0—F22
Angle of View	110°
Lens Construction (Elements/Groups)	12 elements/9 groups ( 2 pieces of Aspherical Glass & 3 pieces of ED Glass Included )
Aperture Blades	5
Minimum Shooting Distance	15cm
Maximum Magnification	0.25X
Focusing Mode	MF
Filter Thread	Φ72mm
Dimension (Diameter / Length) ( Lens hood excluded )	Φ77.2×82mm
Weight (Lens hood excluded)	500g

## INSTRUCTIONS

### 1/ Mounting and Detaching the Lens

Select the corresponding Sony mirrorless cameras as LAOWA 15mm F2.0 ZERO-D is a Sony E-mount only lens. Align the mount index between the lens and camera for mounting and rotate the lens into the camera until you hear a click that tells you the lens is locked into place.

### 2/ Focusing

Turn the focus ring gently when focusing as it is a manual focus only lens to protect the focusing system from damage.

### 3/ Direction for Use of Nodal Point

For stitching a panorama or making panoramic photography, set the entrance pupil as a central point to rotate the camera, which contributes to eliminating the phenomenon of perspective distortion and displacement of the subjects in the foreground and background of a image as possible so as to create a perfect panorama.

### 4/ Aperture Setting and Metering Mode

In aperture priority mode, the camera automatically selects a shutter speed to match a chosen aperture which will result in a proper exposure while the aperture data cannot show up though.

## PRECAUTIONS

### ⚠ Safety Precautions

- Do not look at the sun or a bright light source through the lens or camera in case that it may cause damage to your eyesight or CCD/CMOS of the camera.
- Whether the lens is attached to the camera or not, do not leave the lens under the sun without the lens cap attached to prevent the lens from abrasion or concentrating the sun's ray, which may even cause a fire.

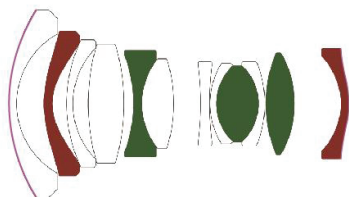
### ⚠ Handling Precautions

- If the lens is taken from a cold environment into a warm one, condensation may develop on the lens surface and its internal parts. To prevent the condensation in this case, keep the lens in a dry environment.
- Do not leave the lens in excessive heat in direct sunlight. High temperature can cause the lens to deformation or malfunction.

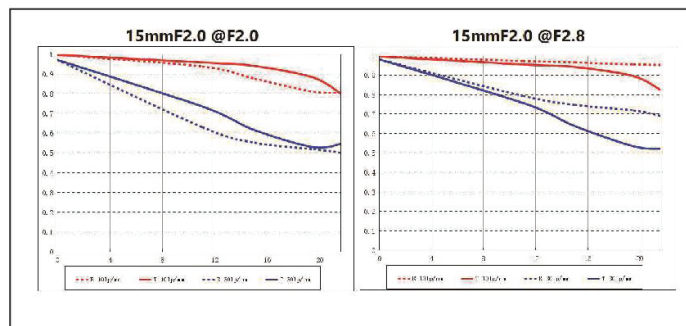
## PERFORMANCE DESIGN

### Zero-D

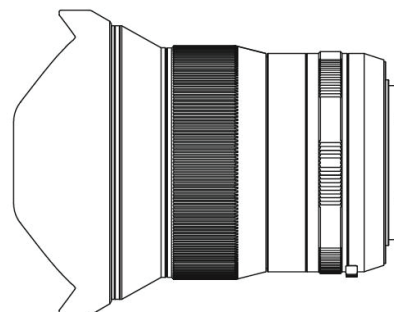
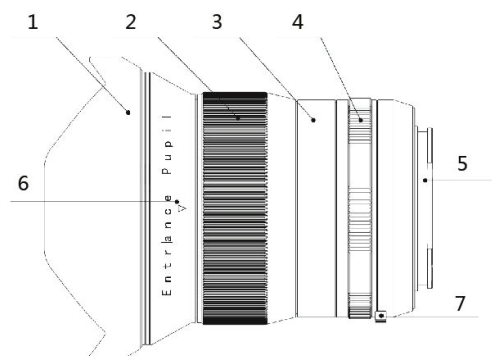
- Extra-low Dispersion Glass
- Glass Aspherical
- Frog Eye Coating(FEC)



## MTF CHART



## 各部件名称/NOMENCLATURE



1. 遮光罩 Lens Hood
2. 对焦手轮 Focus Ring
3. 景深标线环 Depth of Field Scale
4. 光圈手轮 Aperture Ring
5. 索尼FE卡口 Sony FE Mount
6. 镜头入瞳 Entrance Pupil
7. 光圈有级无级切换开关 Clicked / Stepless Aperture Switch