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9mm T2.9 Zero-D 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*.



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 $\varphi 29\text{mm}$. This lens can be used on Super 35 cinema camera which image circle is $\varphi 28\text{mm}$.
- 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

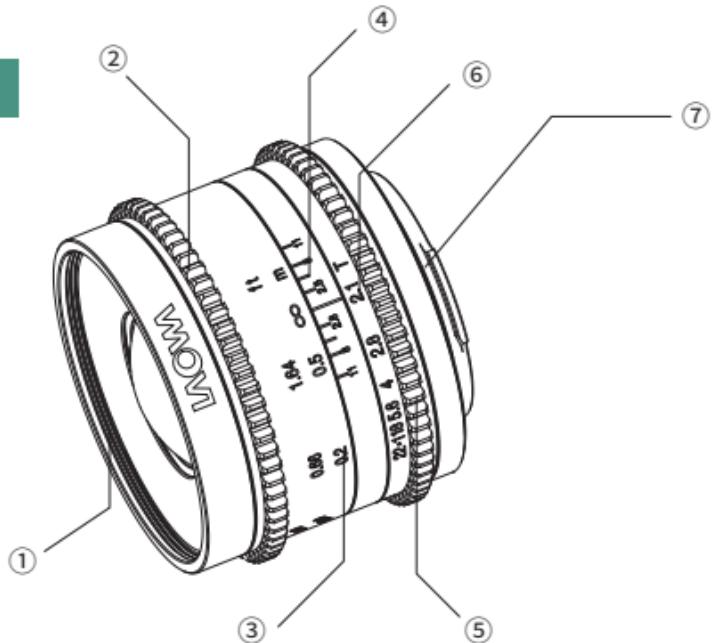
- Do not disassemble or modify the lens by yourself. Do not touch the internal parts that become exposed as the result of external force.
- Do not leave the lens where it will be exposed to high temperatures, such as in direct sunlight and an enclosed vehicle. Excessive heat may deform the glass elements 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 scale③ and Depth-of-field scale④ on 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

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