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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) 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 老蛙

Preface

Thank you very much for purchasing LAOWA MFT 6mm F2.0 C&D -Dreamer wide angle lens. This is an ultra wide Angle lens for M43 frame system. It is light and compact adopting mini design. With electronic aperture, it is more convenient to adjust aperture values through the camera body.

⚠ *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.This lens adopts mini design with the size of ϕ61mm*53mm and the weight of 180g. It is compact and portable, which can be used on M43 frame camera body.
- 2.The lens adopts the electronic aperture design, which can adjust the aperture values through the camera body and record the aperture value and lens model data information. When used with DJI X5 head holder, the aperture value can be directly adjusted by remote control, which improves the use efficiency.
- 3.There are 13 elements in 9 groups inside, including 3 extra-low dispersion elements and 2 aspherical elements, which bring high quality imaging. The mechanical structure made of all metal materials ensures the durability of the lens for long-term use.

Precautions

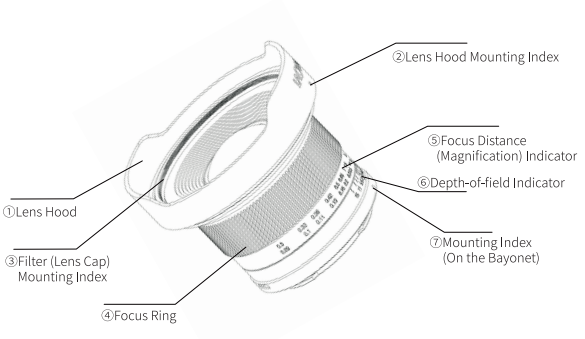
⚠ Safety Precautions

- 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



To attach the Lens

Remove the rear lens cap. Align the mounting index ⑦ 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.

After attaching the lens, please try to rotate the lens to make sure it mounted onto the camera properly.

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, try rotating it to make sure it is fixed to the camera.

Attaching/detaching lens hood

Align the mounting index on the lens hood ② and the lens. Turn the hood clockwise until it locks.
For detaching lens hood, rotate it counterclockwise.
It is recommended that you use a lens hood to reduce strong light and protect the front element.

Lens hood may be unavailable when using certain filters.
When storing, turn over the lens hood and place it onto the lens backward.
When shooting with a flash, the lens hood may block light and cause vignetting. So when shooting with the camera' s built-in flash or with the external flash unit that is not high enough, please remove the hood before shooting.

Focusing

This is a fully manual lens. Rotate the focusing ring ④ slowly to get focus.

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

The distance scale ⑤ and depth of field scale ⑥ 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. According to the shooting environment and the required depth of field, turn the aperture adjustment wave wheel on the camera body to select the corresponding aperture.

Since this lens has CPU data, the aperture values can be recorded.

Focusing Methods

Method 1 Focus after magnification is predetermined

①Determine magnification in advance, then turn the focus ring to the desired magnification scale.

②Check the frame by the viewfinder or [Live View] on the camera and pan the camera back and forth to roughly focus until the right focus length is determined.

③Rotate the focus ring to achieve precise focus.

Method 2

Set the frame first. Turn the focus ring while you are checking the image through the viewfinder or [Live View] on the camera. After setting the composition, perform steps ② and ③ of Method 1.

When shooting at high magnification, the working distance of the lens is very short and it is easy to touch the shot object. Therefore, please be careful when shooting.
Magnification refers to the proportional relation between the size of the image recorded on the sensor or film and the actual size of the shot object.

Specifications

LAOWA MFT 6mm F2.0 C&D -Dreamer	
Format	M43
Focal Distance	6.0mm
Aperture Range	F2.0-16
Angle of View	121.9°
Lens Structure	13 elements/9 groups (Aspherical Lens*2)
Aperture Blades	5 (automatic aperture)
Min. Shooting Distance (Object Image Distance)	9cm
Max. Magnification	0.18X
Focusing	MF
Filter Thread	Φ58mm
Dimensions	About Φ61mm*53mm
Weight	About 180g (without lens hood and both front cap and rear cap)
Mounts	M43