

● **8mm 1:2.8 UMC FISH-EYE II**
(Canon M Fujifilm X Samsung NX Sony E)

Instruction Manual

Thank you for purchasing our lens.
We believe that this new 8mm 1:2.8 UMC FISH-EYE II Canon M, Fujifilm X, Samsung NX and Sony E lens will give you a special photographic experience.

With an optical design optimized for mirrorless cameras, such as the Canon M, Fujifilm X, Samsung NX and Sony E the 8mm 1:2.8 UMC FISH-EYE II lens is compact and very portable, producing both close-up and distant images.

Features of the 8mm 1:2.8 UMC FISH-EYE II lens

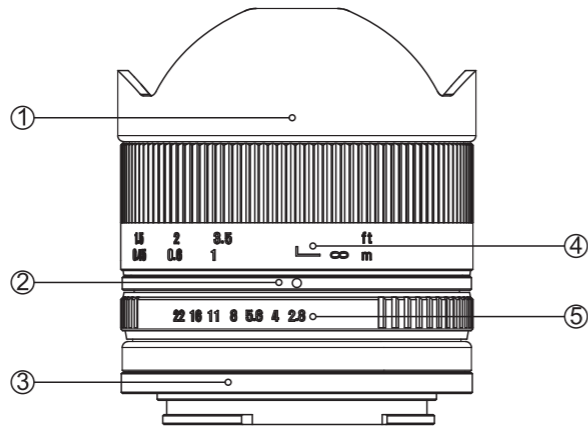
1. Optical design specially designed for the Mirrorless APS-C (1:1.5x) image format
2. It compensates aberrations using 2 low dispersion lenses and 1 complex aspherical lens and, in the fully open position, produces high resolution and high contrast at the center of the lens as well as around the periphery.
3. The non-detachable petal type hood and UMC (Ultra Multi Coating) design suppresses flaring and ghost images.
4. With its stereoscopic projection optical design, the lens can express distortion smoothly, producing even images

The 8mm 1:2.8 UMC FISH-EYE II lens Canon M, Fujifilm X, Samsung NX and Sony E is designed with its own mount. You can mount the lens directly onto the camera without using an adaptor.

- * Please read this instruction manual carefully and use the product accordingly.
- * Please read the 'Safety Precautions' at the back of this instruction manual prior to use.

1. Component Names

【Figure】



- ① Hood ② Reference point
③ Mount (Canon M, Fujifilm X, Samsung NX and Sony E)
④ Focusing ring (Distance scale) ⑤ Aperture adjustment ring

2. Attaching to and Detaching from the Camera

The 8mm 1:2.8 UMC FISH-EYE II lens mount is uniquely designed for the Canon M, Fujifilm X, Samsung NX and Sony E cameras.

【Attaching】

Gently hold the lens hood, align the camera mount attachment point with the camera locking reference point on the lens, push the lens into the camera and turn the lens gently until it makes a clicking sound, and the depth of field scale is positioned at the top of the camera.

【Detaching】

Gently hold the lens hood, press the lens release button on the camera, and turn the lens in the opposite direction to detach the lens.

3. Focus Adjustment

When using the 8mm 1:2.8 UMC FISH-EYE II lens, you can set the focus of a subject by turning the focusing ring, since it is an MF (Manual Focus) adjustment lens.

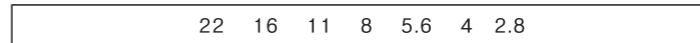
【Canon M, Fujifilm X, Samsung NX, Sony E Mount】

- ① To change the focus from a subject that is far away to a subject that is close turn the focusing ring clockwise (from ∞ to 0.3) and focus on the clearest subject, using the indicator signal on the camera or by checking on the LCD.
- ② To change the focus from a subject that is close to a subject that is far away turn the focusing ring counterclockwise (from 0.3 to ∞) and focus on the clearest subject, using the indicator signal on the camera or by checking on the LCD.

4. Brightness Control

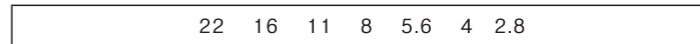
The 8mm 1:2.8 UMC FISH-EYE II lens mount is uniquely designed for the Canon M, Fujifilm X, Samsung NX and Sony E cameras.

【Aperture adjustment ring mark】

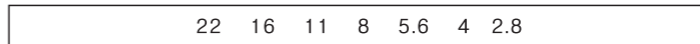


Each number between 4~22 is 1 stop (1 EV) away from the next number. Brightness can be set more precisely by using the stop setting in between, such as the 0.5 stop between 2.8 and 4.
e.g.

5.6 and 8 are 1 stop (1 EV) away from each other.



Set a brightness between 5.6 and 8, which is 0.5 of a stop (0.5 EV) between the two

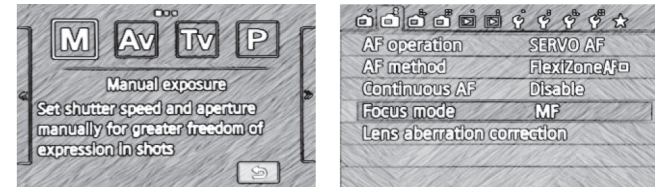


5. Camera settings

The aperture of the 8mm 1:2.8 UMC FISH-EYE II lens for the Canon M, Fujifilm X, Samsung NX and Sony E is not geared to the camera.
If the brightness value is set to above 8, the user may have difficulty in setting the correct focus when viewing a subject through the camera viewfinder, therefore focus on the subject by fully opening the aperture when attaching this lens to the camera, and then set the depth of focus and brightness you want to express prior to shooting.

【Canon M, Mount】

- 1) Set the exposure to manual exposure (M) and change the focus mode to MF.



(The procedures above are for the Canon M. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera instruction manual or contact the camera manufacturer for detailed information.)

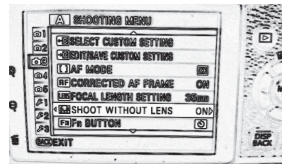
【Fujifilm X Mount】

- 1) Turn the camera power on, and set the focus mode selector on the camera to M. Focusing will be easier with partial expansion using the command dial.



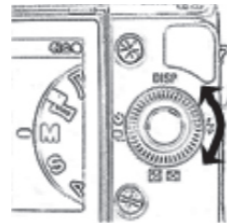
- 2) Press the MENU/OK button, and select ON for 'Shooting without lens' in the shooting menu.
When the shooting mode is for video recording, you need to change the mode to still image.

● Please read this instruction manual prior to use. ●



[Sony E Mount]

- 1) Set the camera mode dial to M.
- 2) Adjust the shutter speed by turning the dial to achieve the appropriate exposure for the brightness.



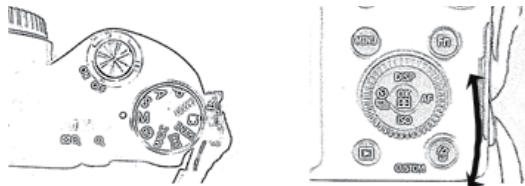
※ For some Sony E cameras, if you set the camera mode dial to A and set the brightness by turning the aperture adjustment ring on the lens, the camera automatically changes the shutter speed, so you don't have to adjust the shutter speed as well, which is required in M mode.

(The above procedure is given based on the NE-5. The camera settings may be different depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

(The above procedure is given based on the X-Pro1. The camera settings may be different depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

[Samsung NX Mount]

- 1) Set the camera mode dial to M.
- 2) Adjust the shutter speed by turning the dial to achieve the appropriate exposure for the brightness.



※ For some Samsung NX cameras, if you set the camera mode dial to A and set the brightness by turning the aperture adjustment ring on the lens, the camera automatically changes the shutter speed, so you don't have to adjust the shutter speed as well, which is required in M mode.

(The above procedure is given based on the NX200. The camera settings may be different depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

6. About Photography

Thanks to its stereoscopic projection design, the 8mm 1:2.8 UMC FISH-EYE II lens can encompass 180° of view distortions smoothly. If you use this feature creatively, you can produce really interesting photos.

With a very short focal distance and a 180° diagonal angle of broad view, you can capture an extensive panorama, which is very useful for landscape shooting.

7. SPEC

Focal length	8mm	
Aperture range	F2.8 to F22	
Negative size	23.3 X 15.5mm	
Angular field	APS-C (1:1.5x)	180° (diagonal)
Focusing range	∞ to 0.3m	
Filter connection	NONE	
Number of elements	11 elements	
Number of groups	8 groups	
Size	Canon M	∅ 60mm X 64.4mm
	Fujifilm X	∅ 60mm X 64.8mm
	Samsung NX	∅ 60mm X 57.0mm
	Sony E	∅ 60mm X 64.5mm
Weight	Canon M	260 g
	Fujifilm X	275 g
	Samsung NX	250 g
	Sony E	265 g

8. Troubleshooting

Symptom	Cause	Action
The lens cannot be attached to the camera.	The reference point on the lens is not aligned with the lens attachment reference point on the camera.	Align the reference point on the lens with the lens attachment reference point on the camera.
The lens cannot be detached from the camera.	Incorrect rotation direction for detaching the lens. If you turn the lens while holding the camera, it may cause damage to the lens.	Press the lens release button on the camera, and lightly turn the lens to the lens attaching/detaching reference points, in the direction as marked on the camera, and then pull the lens forward.
Dark image.	Incorrect focusing. Insufficient shutter speed, or camera shake.	Turn the focusing ring while checking the subject using the indicator in the camera or checking visually to set the focus until the subject is clear and distinct, and then press the shutter. After selecting a shutter speed of 1/125 sec or faster, steady the camera and take a photograph.
Automatic focusing does not work properly.	This is a manual focus lens and does not have an automatic function.	Turn the focusing ring to focus on a subject.
The pictures are too dark or too bright.	The exposure is incorrect.	Set the aperture adjustment ring of the lens and the camera shutter speed appropriately.
The edges of the picture periphery gets dark when using a manual camera or a digital camera with a 1:1 image sensor.	As this lens is optimized for APS-C size images, the edges of the picture look dark when using a digital camera with 1:1 sized images.	Use a camera with for APS-C sized images.
The camera flash is not synchronized to the camera.	A manual control lens may not be compatible depending on the camera.	See the camera manual.
There is no camera finder indication or display.	This lens does not have electronic contacts, so there is no communication with the camera.	This does not indicate that there is a problem with shooting.
Zoom failure.	This lens is a short focus lens.	
The lens hood cannot be detached.	This lens hood is of the fixed type, so it cannot be detached.	
The lens cannot be mounted on other cameras.	This lens is designed a specific mount type.	Please buy the required camera to use this lens.
I want to attach your 2X or 1.4X converter lens.	Our converter is designed for the T (M42 SCREW) mount only, thus it cannot be used with this product.	Use each company's own mount converter. However, be aware that auto focusing will not be available.

9. Safety Precautions

The following precautions are divided into two types according to the level of danger.

WARNING If this instruction is not followed, it may cause death or severe injury to the user.	CAUTION If this instruction is not followed, it may cause death or severe injury to the user.
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The following pictograms are used in the below precautions:

Requires caution. Inside the pictogram it shows contents of precautions. (It shows outbreak of fire in the pictogram on the left.)	Shows prohibition. Inside the pictogram it shows contents of prohibition. (It shows prohibition of dismantling in the pictogram on the left.)
Shows instruction. Inside the pictogram it shows contents of instructions. (It shows instruction of precaution in the pictogram on the left.)	

WARNING	CAUTION

WARNING!
Do not allow this product to get wet, or expose it to a moist environment. It may cause a fire or electric shock.

- CAUTION!**
- Do not use this product or store it close to devices that generate heat i.e., heaters, thermal regulators, stoves, stereo amplifiers.
 - Do not expose the lens to drastic temperature changes.
 - Do not touch the surface of the lens with your hand, or let it come into contact with sharp objects.
 - Do not drop the lens.
 - Do not soak the lens in water, and avoid water splashing onto the lens.
 - If there are foreign bodies on the lens, use a lens cleaning kit only.
 - If the hood is removed, the surface of the lens will be exposed and may become scratched, or break.