● 8mm F3.5 UMC FISH-EYE CS II

Instruction Manual

Thank you for purchasing our lens.
We believe that the 8mm F3.5 UMC FISH-EYE CS Ⅱ lens will give you a special photographic experience.

Advantages of the 8mm F3.5 UMC FISH-EYE CS Ⅱ

1. Image size for digital APS-C (1:1.5x)
2. 180° diagonal angle of view for 8mm of focal length for the APS-C format for the first time in a FISH-EYE lens.
3. When the hood is removed, you can get almost real images from the camera with 35mm of image format.
4. With its stereoscopic projection optical design, the lens can express distortion smoothly, producing even images.
5. It compensates aberrations using a 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.
6. The detachable petal type hood and UMC (Ultra Multi Coating) design suppresses flaring and ghost images.
7. Robust durability with a high strength aluminum body.

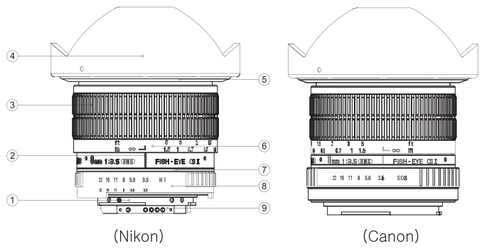
This product is designed with its own mount, so you can mount the lens directly onto the camera without using an adaptor

※ 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.

● Please read this instruction manual prior to use. ●

1. Component Names

【Figure】



① Mount (camera locking area) ② Distance scale point ③ Focusing ring
④ Hood ⑤ Hood locking tube ⑥ Focus scaling ring
⑦ Point ring ⑧ Aperture adjustment ring ⑨ CPU (electronic contact)

2. Attaching to and Detaching from the Camera

The 8mm F3.5 UMC FISH-EYE CS Ⅱ lens mount is uniquely designed for the Samsung NX, Sony E, and Fujifilm X cameras.

【Attaching】

1) Hold the hood of the lens gently.
2) Align the depth of field scale of the lens with the lens attachment reference point on the camera.
3) 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.
4) When using the Nikon mount, set the minimum aperture value (F22) by turning the aperture ring, since it is a CPU-equipped lens (AE).
(For the lens to be able to communicate with an AF camera, the aperture adjustment ring must be turned until F22, the number marked on the aperture adjustment ring, is aligned with the depth of field scale on the lens)

【Detaching】

Hold the hood locking area of the lens gently, press the lens release button on the camera, turn the lens until the depth of field scale of the lens is aligned with the lens attachment reference point on the camera, and then pull the lens out.

3. Focus Adjustment

When using the 8mm F3.5 UMC FISH-EYE CS Ⅱ lens, you can focus on a subject by turning the focusing ring, since it is an MF (Manual Focus) adjustment lens.

【Nikon (Fujifilm) F / Pentax (Samsung GX) K Mount】

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

【Sony (Minolta) / Canon EOS / Four-Thirds / Samsung NX 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 visually.
② To change the focus from a subject that is nearby 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 visually.

4. Brightness Control

【Nikon (Fujifilm) F Mount】

1. AF camera (applicable for both a film body and a digital body)
① Brightness control in A mode (Aperture Priority mode)
Turn the sub command dial at the front of the camera to adjust the brightness.

② Brightness control in S mode (Shutter Speed Priority mode)
Turn the main command dial at the back of the camera; the shutter speed is then changed and the brightness is adjusted according to the changed shutter speed.

③ Brightness control in P mode (Program mode)
Turn the main command dial at the back of the camera to adjust the shutter speed and the brightness.

④ Brightness control in M mode
Turn the sub command dial at the front of the camera to adjust the brightness.
(The above procedure is given based on the D300. The camera settings may be different depending on the model or due to a functional upgrade, therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

【Sony (Minolta) / Canon EOS / Four-Thirds / Samsung NX Mount】

① Turn the aperture adjustment ring to set the brightness you want.
Turn the aperture adjustment ring to set the desired brightness for the 8mm F3.5 UMC FISH-EYE CS Ⅱ lens.

【Aperture adjustment ring mark】

① Nikon (Fujifilm) F / Canon EOS / Four-Thirds / Samsung NX

22	16	11	8	5.6	3.5

② Pentax (Samsung GX) K

A • 22	16	11	8	5.6	3.5

③ Sony (Minolta) α

3.5	5.6	8	11	16	22

Each number is 1 stop (1 EV) away from the next number.
Brightness can be set more precisely by using the stop setting in between.
(However, the Sony (Minolta) Mount can only be changed in 1 stop intervals)
e.g.
5.6 and 8 are 1 stop (1 EV) away from each other.

22	16	11	8	5.6	3.5

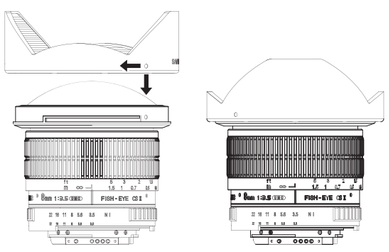
Set a brightness between 5.6 and 8, which is 0.5 of a stop (0.5 EV) between the two

22	16	11	8	5.6	3.5

5. Mounting a Hood

The bayonet-type hood guarantees speedy, efficient, safe and precise installation and facilitates shooting that is free from ghosting or flaring.

【Figure】



Align the attachment reference point on the hood with the hood reference point on the lens, push the hood onto the lens and turn the hood clockwise until it makes a clicking sound.

6. About Photography

Thanks to its stereoscopic projection design, the 8mm F3.5 UMC FISH-EYE CS Ⅱ lens can encompass 180° of view distortionsmoothly. 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. Camera settings

Some cameras require special settings prior to using a lens.
Please refer to the following and set the camera as necessary.

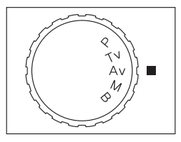
○ Nikon (Fujifilm) F Mount

For the Nikon mount product, contacts are built in to the mount to allow the lens to communicate with Nikon AF cameras.
The contacts enable the A, S, and P modes of the camera, and when a subject is focused correctly the camera emits a beep or an indicator lights up.

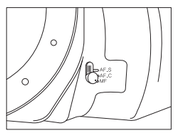
○ Pentax (Samsung GX) K

1. Av mode
The 8mm F3.5 UMC FISH-EYE CS Ⅱ Pentax (Samsung GX) K Mount product supports Av mode.

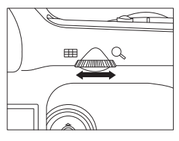
1) Align the A mode indicator to the depth of field scale by pressing the A button on the aperture adjustment ring of the lens.
2) Set the mode dial of the camera to Av.



3) Set the focusing lever of the camera to MF.



4) Camera manual user setting ▶ Use the aperture ring ▶ Prohibited
5) Adjust the brightness by turning the dial at the back of the camera.

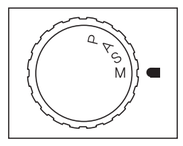


(The above procedure is given based on the K20D. The camera settings may be different depending on the model or due to a functional upgrade, therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

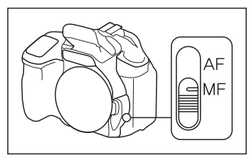
○ Sony (Minolta) α

The aperture of the 8mm F3.5 UMC FISH-EYE CS Ⅱ Sony (Minolta) mount is not geared to the camera.
If the brightness value is set to above F8, 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.

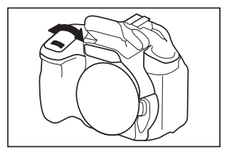
1) Set the camera mode dial to M.



2) Set the focusing lever of the camera to MF.



3) Adjust the shutter speed to achieve the appropriate exposure for the brightness.



(The above procedure is given based on the 350. The camera settings may be different depending on the model or due to a functional upgrade, therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

○ Konica Minolta (Minolta) DYNA Series

If this lens is used on some Konica Minolta (Minolta) series cameras, the release lock function (misuse prevention function) of the camera must be disabled. It is required to disable the release lock function only on the first use as below.

Procedure for disabling the release lock function
① Set the main switch of the camera to OFF.
② Detach the lens from the camera body and set the main switch of the camera to ON by pressing the 2 following buttons.

9xi – function button + AE lock button
7xi – function button + AE lock button
5xi – function button + spot button
3xi – modification is required at a service center

807si – AEL button + shooting scene select button
707si – card button + spot button
507si – lens exchange button + ISO lock button
DYNAX3L – shooting scene select button + button

303si – AV button + self mode button
303si SUPER – drive button + spot button
101si – self-timer button + flash button
360si – self-timer serial shooting button + scene select button

α-sweet – self-timer serial shooting button + spot button
α-sweet S – (set the function dial to the multi-light exposure)
P button + self–timer button
DYNAX30 – self-timer button + turn the left dial on the main body away from OFF.

α-Sweet Ⅱ, Ⅱ L···Set the camera to custom function 14 and change selection number 1 to 2 (N.A).

α-7, -9, -Ti···Set the camera to custom function 16 and change the selection number 1 to 2 (N.A).

α-Sweet Digital···Execute the following operation.

MENU ⇒ *2 ⇒ release lock without a lens ⇒ to the right ⇒ N.A. ⇒ ● execute ⇒ MENU

α-7 Digital···Execute the following operation.

MENU ⇒ *3 ⇒ release lock without a lens ⇒ to the right ⇒ N.A. ⇒ ● execute ⇒ MENU

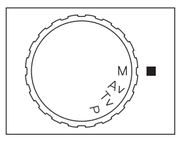
※ If the release lock is disengaged in the above way, the state of disengagement is maintained even when the main switch is turned off. Execute the above procedure again if you want to use the release lock function.

(The camera settings may be different depending on the model or due to a functional upgrade, therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

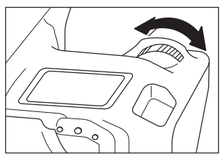
○ Canon EOS

The aperture of the 8mm F3.5 UMC FISH-EYE CS Ⅱ Canon EOS Mount is not geared to the camera. If the brightness value is set to above F8, 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.

1) Set the camera mode dial to M.



2) Adjust the shutter speed to achieve the appropriate exposure for the brightness.



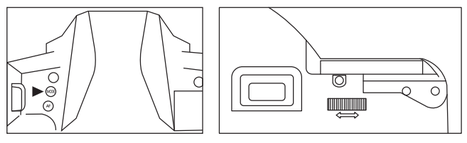
※ For some Canon cameras, if you set the camera mode dial to Av and set the brightness by turning the aperture adjustment ring on the lens, the camera automatically changes the shutter speed. Therefore you don't have to adjust the shutter speed as well, which is required in M mode.

(The above procedure is given based on the 40D. The camera settings may be different depending on the model or due to a functional upgrade, therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

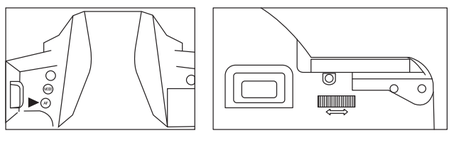
○ Four-Thirds

The aperture of the 8mm F3.5 UMC FISH-EYE CS Ⅱ Four-Thirds Mount is not geared to the camera. If the brightness value is set to above F8, 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.

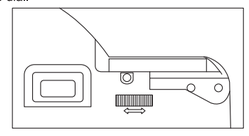
1) Hold down the MODE button and turn the dial until it is set to M. (Shooting condition)
MODE + control dial ▶ M mode setting (manual shooting)



2) Hold down the AF button and turn the dial until it is set to MF. (Focusing)
AF + control dial ▶ MF setting (manual focusing)



3) Adjust the shutter speed to achieve the appropriate exposure for the brightness by turning the dial.

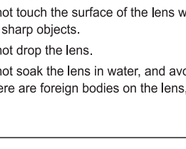


※ For some Four-Thirds cameras, if you set the camera mode dial to A and set the brightness by turning the aperture adjustment ring on the lens, the camera automatically changes the shutter speed, so you don't have to adjust the shutter speed as well, which is required in M mode.
(The above procedure is given based on the Olympus E-3. The camera settings may be different depending on the model or due to a functional upgrade, therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

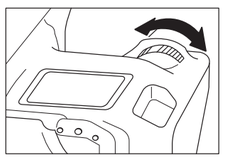
○ Samsung NX

The aperture of the 8mm F3.5 UMC FISH-EYE CS Ⅱ Samsung NX Mount is not geared to the camera. If the brightness value is set to above F8, 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.

1) Set the camera mode dial to M.



2) Adjust the shutter speed to achieve the appropriate exposure for the brightness by turning the dial on the shooting button.



※ 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 NX10. The camera settings may be different depending on the model or due to a functional upgrade, therefore refer to the camera manual or contact the camera manufacturer for more detailed information.)

8. SPEC

Focal length	8 mm	
Aperture range	F3.5 to F22	
Negative size	APS-C	
Angular field	APS-C (1:1.5x)	180° (diagonal)
	APS-C (1:1.6x)	167° (diagonal)
	Four Third (1:2X)	139.3° (diagonal)
Focusing range	∞ to 0.3 m	
Filter connection	Does not provide	
Number of elements	10 elements	
Number of groups	7 group	
Size (without hood)	Nikon Mount	72.6mm X ∅75mm
	Sony α Mount	74.6mm X ∅75mm
	Pentax Mount	73.6mm X ∅75mm
	Sony E Mount	103.6mm X ∅75mm
	Canon Mount	75.1mm X ∅75mm
	Four-Thirds	80.4mm X ∅75mm
	NX Mount	93.6mm X ∅75mm
Weight (without hood)	Nikon Mount	410g
	Sony α Mount	423g
	Pentax Mount	413g
	Sony E Mount	452g
	Canon Mount	442g
	Four-Thirds	427g
	NX Mount	463g

9. 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.
rEE(blinking)	The aperture adjustment ring on the lens is not set to the minimum aperture value.	Turn the aperture adjustment ring to set it to the minimum aperture value (F22)
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 camera flash is not synchronized to the camera.	A non CPU lens may not be compatible, depending on the camera.	See the camera manual.
	This lens corresponds to the Nikon AI-P lens.	See the camera manual or flash manual. This lens is not a "D TYPE" lens (compatible with a range finder).
There is no camera finder indication or display.	This lens does not have electronic contacts, so there is no electronic communication with the camera.	This does not indicate that there is a problem with shooting.
Zoom failure.	This lens is a shor focus lens.	
The lens cannot be attached to other cameras.	This lens is designed for 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.	You can use each company's own mount converter. However, be aware that auto focusing will not be available.

10. Safety Precautions

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

⚠ WARNING	⚠ CAUTION
If this instruction is not followed, it may cause death or severe injury to the user.	If this instruction is not followed, it may cause death or severe injury to the user.

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

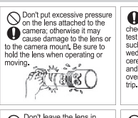
Don't look at the sun through the lens. It may cause blindness.

Don't leave the lens within reach of babies, as it may cause injury to the baby if the lens falls or is dropped.

⚠ CAUTION

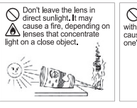
Attach the lens to the camera correctly and ensure the lens is held in place properly; otherwise the lens may not be removable, or may become loose and cause an accident.

Don't put excessive pressure on the lens attached to the camera; otherwise it may cause damage to the lens or to the camera mount. Be sure to hold the lens when operating or moving.



Ensure that the camera operates properly by checking the lens beforehand or by test shooting for important events such as a wedding ceremony and an overseas trip.

Don't attempt to modify or alter the lens. It may lead to failure of the camera. Modified or altered lenses may not be repaired.



Don't leave the lens in direct sunlight. It may cause a fire, depending on lenses that concentrate light on a close object.

Don't look at the sun directly through a camera with a lens attached. It may cause damage to one's eyesight.

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.