

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.

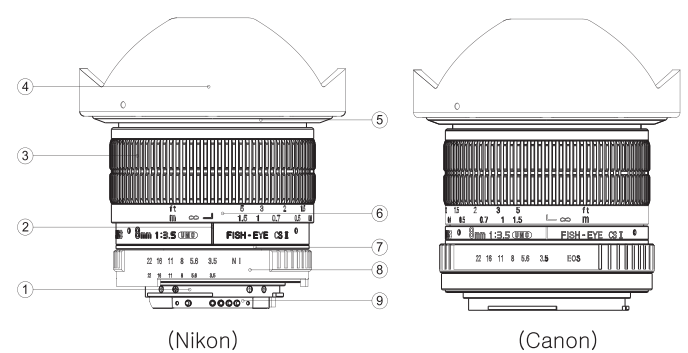
This product is designed with its own mount, so you can mount the lens directly onto the camera without using an adaptor

- 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]



- Mount (camera locking area)
- Distance scale point
- Focusing ring
- Hood
- Hood locking tube
- Focus scaling ring
- Point ring
- Aperture adjustment ring
- 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 Canon, Nikon F, Pentax(Samsung GX) K, Sony α and Canon M, FT/MFT, Fujifilm X, Samsung NX, Sony E 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, this 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 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 clockwise (from 0.3 to ∞) and focus on the clearest subject, using the indicator signal on the camera or by checking visually.

[Canon, Canon M, FT / MFT, Fujifilm X, Samsung NX, Sony α / E]

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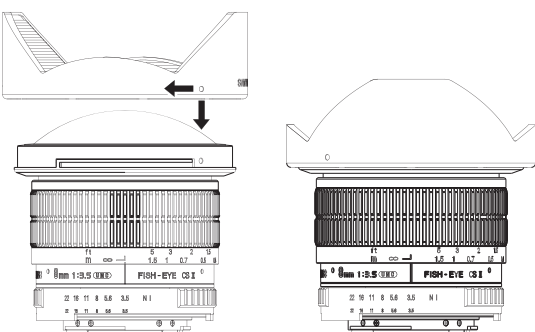
Set a brightness between 5.6 and 8, which is 0.5 of a stop (0.5 EV) between the two

22	16	11	8	5.6	3.5
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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 distortion 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.

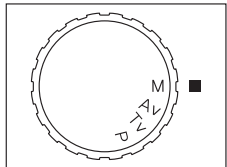
7. Camera Settings

Some cameras require special settings when using this lens.
Please refer to the following and set the camera when necessary.

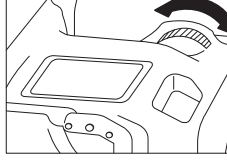
• Canon Mount

The diaphragm of the 8mm F3.5 UMC FISH-EYE CS II Canon mount is not compatible with the camera.
If the brightness is set to F8 or above, you may not be able to set the correct focus due to a difficulty in viewing the subject through the camera viewfinder. Turn the aperture adjustment ring so it is fully open when attaching the lens to the camera, and then set the depth of field and brightness you want prior to shooting.

- 1) Set the camera mode dial to M.



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



3) 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 need to adjust the shutter speed as well, which is required in M mode.

(The procedures above are for the 40D. The settings for the camera or the menu may vary based on the model or due to a functional upgrade. Refer to the camera instruction manual or contact the camera manufacturer for detailed information.)

• Nikon (Fujifilm) Mount

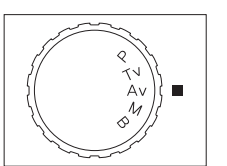
Your Nikon mount has electronic contacts that allow it to communicate with Nikon AF cameras. These contacts enable the A, S, and P modes of the camera. When a subject is correctly in focus, the camera emits a beep or an indicator light comes on.

• Pentax (Samsung GX) K Mount

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

- 1) Align the A mode indicator to the distance scale indicator mark 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 focus adjustment lever of the camera to MF.



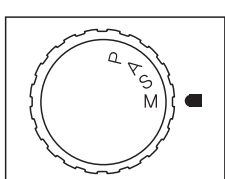
- 4) Camera Settings
The user sets the menu. ▶ The aperture ring is used. ▶ Not allowed.

5) Adjust the brightness by turning the dial at the back of the camera.
(The procedures above are for the K20D. The settings for the camera or the menu may vary based on the model or due to a functional upgrade. Refer to the camera instruction manual or contact the camera manufacturer for detailed information.)

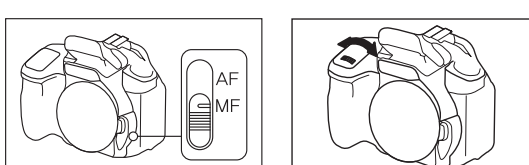
• Sony (Minolta) α Mount

The diaphragm of the 8mm F3.5 UMC FISH-EYE CS II Sony (Minolta) mount is not compatible with the camera. If the brightness is set to F8 or above, you may not be able to set the correct focus due to a difficulty in viewing the subject through the camera viewfinder. Turn the aperture adjustment ring so it is fully open when attaching the lens to the camera, and then set the depth of field and brightness you want prior to shooting.

- 1) Set the camera mode dial to M.



- 2) Set the focus adjustment lever of the camera to MF.



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

(The procedures above are for the α350. The settings for the camera or the menu may vary based on the model or due to a functional upgrade. Refer to the camera instruction manual or contact the camera manufacturer for detailed information.)

• Konica Minolta (Minolta), DYNA Series Cameras

If this lens is used on some Konica Minolta (Minolta) or DYNA 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.

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 following two buttons.

96i ... function button + AE lock button	303sa SUPER ... drive button + spot button
7x6 ... function button + AE lock button	101si ... self-timer button + flash button
56i ... function button + spot button	880s ... self-timer continuous shooting button + screen select button
36i ... Modification is required at a service center.	
807si ... AE/L button + shooting scene select button	α-Sweet ... self-timer continuous shooting button + spot button
707si ... card button + spot button	α-Sweet S ... (set the function dial to multi light exposure)
507si ... lens exchange button + ISO lock button	P button + self-timer button
DYNAX3L ... shooting scene select button + button	DYNAX30 ... self-timer button + turn the left dial on the main body away from OFF.

α-Sweet II, III, L ... Set the camera to custom function 14 and change selection number from 1 to 2 (N.A.).
α-7, α-9, α-TL ... Set the camera to custom function 16 and change the selection number from 1 to 2 (N.A.).

α-Sweet digital ... Execute the following operation.
MENU ⇒ '2' ⇒ Release lock without the lens ⇒ To the right ⇒ N.A. ⇒ Execute ● ⇒ MENU
α-7 Digital - Execute the following operation.
MENU ⇒ '3' ⇒ Release lock without the 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 though the main switch is turned off. If you want to enable the release lock function, perform the above procedure again.

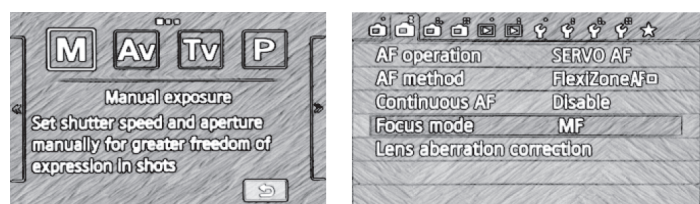
(The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera instruction manual or contact the camera manufacturer for detailed information.)

• Mirrorless Cameras (Canon M, Samsung NX, Sony E, Fujifilm X)

The diaphragms of the 8mm F3.5 UMC FISH-EYE CS II Canon M, Samsung NX, Sony E and Fujifilm X mounts are not compatible with the cameras. If the brightness is set to F8 or above, you may not be able to set the correct focus due to a difficulty in viewing the subject through the camera viewfinder. Turn the aperture adjustment ring so it is fully open when attaching the lens to the camera, and then set the depth of field and brightness you want prior to shooting.

[Canon M Mount]

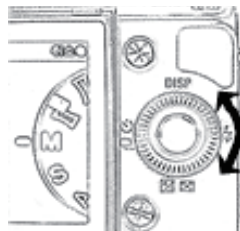
- 1) Set the exposure to manual exposure (M) and change the focus mode to MF.



(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.)

[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.



3) For some Sony α 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. Therefore you don't need to adjust the shutter speed as well, which is required in M mode.

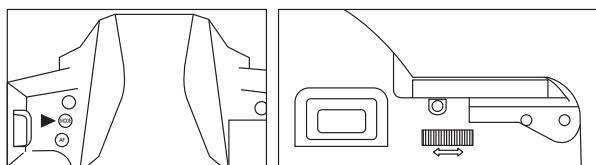
(The procedures above are for the NEX-5. The settings for the camera or the menu may vary based on the model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

• Four Thirds, Micro Four Thirds

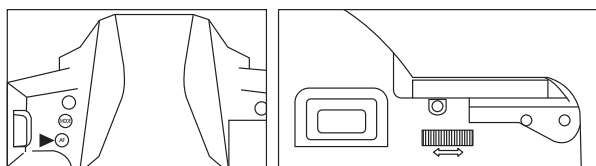
The diaphragms of the 8mm F3.5 UMC FISH-EYE CS II Four Thirds and Micro Four Thirds mounts are not compatible with the cameras. If the brightness is set to F8 or above, you may not be able to set the correct focus due to a difficulty in viewing the subject through the camera viewfinder. Turn the aperture adjustment ring so it is fully open when attaching the lens to the camera, and then set the depth of field and brightness you want prior to shooting.

[Four Thirds Mount]

- 1) Hold down the MODE button and turn the dial until it is set to M (shooting conditions) 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)

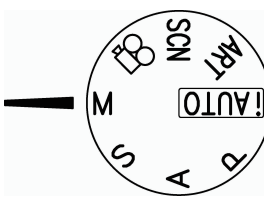


- 3) Adjust the shutter speed to achieve the appropriate exposure for the brightness by turning the dial.

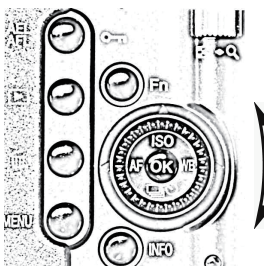
(The procedures above are for the Olympus E-3. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

[Micro Four Thirds 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.



3) For some Olympus (MFT) and Panasonic (MFT) 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. Therefore you don't need to adjust the shutter speed as well, which is required in M mode.

(The procedures above are for the E-P2. 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 manual or contact the camera manufacturer for detailed information.)





8. SPEC

SPECIFICATIONS		1:1.5 8mm UMC FISH-EYE CS II (DIAGONAL FISH-EYE)									
APERTURE RANGE		F3.5 - 22									
OPTICAL CONSTRUCTION		10 ELEMENT IN 7 GROUPS (1 ASPHERICAL LENS)									
MINIMUM FOCUSING DISTANCE		0.3m(1.98')									
FILTER SIZE		NONE									
MAXIMUM DIAMETER		ø77.3mm									
MOUNT		CANON EOS	NIKON PENTAX	SONY α	FUJIFILM	SAMSUNG NX	SONY E	FOUR-THIRDS	FOUR-THIRDS	FOUR-THIRDS	FOUR-THIRDS
ANGLE OF VIEW	APS-C	167°	160°	167°	167°	167°	167°	167°	167°	167°	167°
	FOUR-THIRDS (4/3)	-	-	-	-	-	-	-	-	139.1°	139.1°
LENGTH		75.1mm	72.8mm	72.8mm	74.6mm	101mm	101.4mm	93.8mm	101.1mm	93.4mm	93.9mm
WEIGHT(CAP HOOD DETACHABLE)		440g	410g	415g	425g	460g	515g	465g	450g	430g	440g
FUNCTION		A / S / M / P mode (Nikon AE)									

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 detaching/locking 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 steady, and then press the shutter. After selecting a shutter speed of 1/250 sec or faster, steady the camera and take a photograph.
rEDLinking	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 light.	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. This lens corresponds to the Nikon AF-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 short 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 my ZK 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

<p>The following precautions are used in the below precautions according to the level of danger.</p>	
<p>WARNING If the instruction is not followed, it may cause death or serious injury to the user.</p>	<p>CAUTION If the instruction is not followed, it may cause death or serious injury to the user.</p>
<p>WARNING</p> <p>1 Don't look at the sun through the lens. It may cause blindness, or even death if the sun is viewed directly through the lens.</p> 	<p>CAUTION</p> <p>1 Avoid the lens to be in the line of sight of the sun. If the lens is in the line of sight of the sun, it may cause blindness or death if the sun is viewed directly through the lens.</p> <p>2 Don't put anything in your mouth or near your mouth. If you put anything in your mouth or near your mouth, it may cause injury or death.</p> 
<p>WARNING</p> <p>1 Don't leave the lens within the reach of children. If they play with the lens, it may cause injury or death.</p> 	<p>CAUTION</p> <p>1 Don't look at the sun through the lens. It may cause blindness, or even death if the sun is viewed directly through the lens.</p> <p>2 Don't look at the sun through the lens. It may cause blindness, or even death if the sun is viewed directly through the lens.</p> 

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!

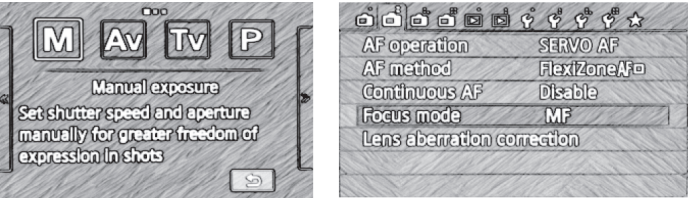
- Do not use this product or store it close to devices that generate heat i.e., heaters, thermal regulators, stoves, stereo amplifiers.
- Do not expose the lens to drastic temperature changes.
- Do not touch the surface of the lens with your hand, or let it come into contact with sharp objects.
- Do 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.

○ Mirrorless Cameras (Canon M, Samsung NX, Sony E, Fujifilm X)

The diaphragms of the 8mm F3.5 UMC FISH-EYE CS II Canon M, Samsung NX, Sony E and Fujifilm X mounts are not compatible with the cameras. If the brightness is set to F8 or above, you may not be able to set the correct focus due to a difficulty in viewing the subject through the camera viewfinder. Turn the aperture adjustment ring so it is fully open when attaching the lens to the camera, and then set the depth of field and brightness you want prior to shooting.

【 Canon M Mount 】

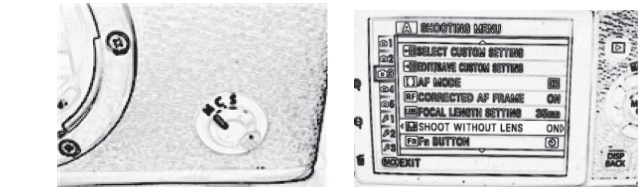
- 1) Set the exposure to manual exposure (M) and change the focus mode to MF.



(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) Set the focus mode to M.



- 2) Press the MENU/OK button, and select ON at 'Shoot without lens' in the shooting menu.

(The procedures above are for the X-Pro1. 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.)

【 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.

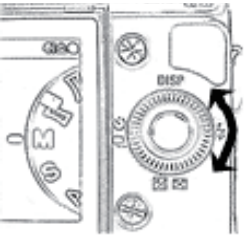


※ For some Samsung NX cameras, if you set the camera mode dial to A and set the brightness by turning the aperture adjustment ring on the lens, the camera automatically changes the shutter speed. Therefore you don't need to adjust the shutter speed as well, which is required in M mode.

(The procedures above are for the NX200. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Therefore refer to the camera manual or contact the camera manufacturer for detailed information.)

【 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. Therefore you don't need to adjust the shutter speed as well, which is required in M mode.

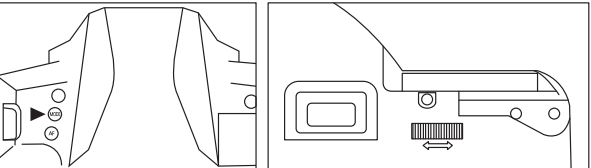
(The procedures above are for the NEX-5. The settings for the camera or the menu may vary based on the model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

○ Four Thirds, Micro Four Thirds

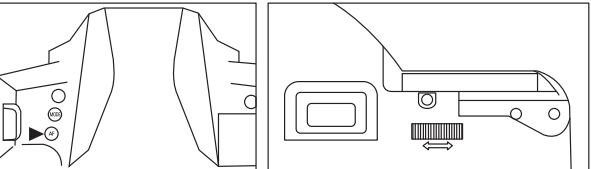
The diaphragms of the 8mm F3.5 UMC FISH-EYE CS II Four Thirds and Micro Four Thirds mounts are not compatible with the cameras. If the brightness is set to F8 or above, you may not be able to set the correct focus due to a difficulty in viewing the subject through the camera viewfinder. Turn the aperture adjustment ring so it is fully open when attaching the lens to the camera, and then set the depth of field and brightness you want prior to shooting.

【 Four Thirds Mount 】

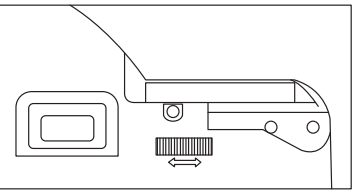
- 1) Hold down the MODE button and turn the dial until it is set to M. (shooting conditions) MODE + control dial ► M mode setting (manual shooting)



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



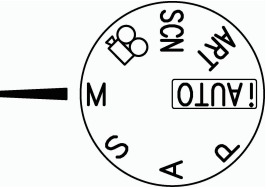
- 3) Adjust the shutter speed to achieve the appropriate exposure for the brightness by turning the dial.



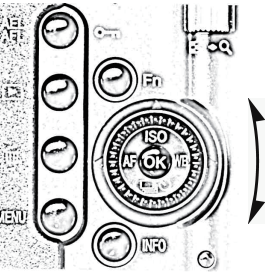
(The procedures above are for the Olympus E-3. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

【 Micro Four Thirds 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 Olympus (MFT) and Panasonic (MFT) 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. Therefore you don't need to adjust the shutter speed as well, which is required in M mode.

(The procedures above are for the E-P2. 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 manual or contact the camera manufacturer for detailed information.)

8. SPEC

SPECIFICATIONS		1:3.5 8mm UMC FISH-EYE CS II (DIAGONAL FISH-EYE)									
APERTURE RANGE		F3.5 - 22									
OPTICAL CONSTRUCTION		10 ELEMENT IN 7 GROUPS (1 ASPHERICAL LENS)									
MINIMUM FOCUSING DISTANCE		0.3m(0.98ft)									
FILTER SIZE		NONE									
MAXIMUM DIAMETER		Ø 77.8mm									
MOUNT		CANON EOS	NIKON AE	PENTAX K	SONY α	CANON M	FUJIFILM X	SAMSUNG NX	SONY E	FOUR -THIRDS	MICRO FOUR -THIRDS
ANGLE OF VIEW	APS-C	167°	180°	180°	180°	167°	180°	180°	180°	·	·
	FOUR-THIRDS (4/3")	·	·	·	·	·	·	·	·	139.3°	139.3°
LENGTH		75.1mm	72.6mm	73.6mm	74.6mm	101mm	101.4mm	93.6mm	101.1mm	80.4mm	99.9mm
WEIGHT(CAP,HOOD DETACHABLE)		440g	410g	415g	425g	460g	515g	465g	450g	430g	440g
FUNCTION		A / S / M / P mode (NIKON AE)									

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.
ⓇEE(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

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

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

⚠ CAUTION

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

⚠ 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 leave the lens within reach of babies, as it may cause injury to the baby if the lens falls or is dropped.

⚠ 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.

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