● *14mm F2.8 ED AS IF UMC Lens*

Instruction Manual

Thank you for purchasing the 14mm F2.8 ED AS IF UMC lens.
We believe that you will have a special photographic experience with the 14mm F2.8 ED AS IF UMC lens.

Advantages of the 14mm F2.8 ED AS IF UMC lens
1. It compensates for aberrations by using a complex aspherical and glass aspherical lens and, at the fully opened position, produces high resolution and high contrast at the center of the lens as well as around the periphery.
2. Controls chromatic aberration optimally by using premium optical glass with high refraction and extra-low dispersion.
3. Allows precision focus control by providing a soft and wide focus operation area.
4. Ultra multi coating design for optimum suppression of ghost images and vivid color image reproduction.
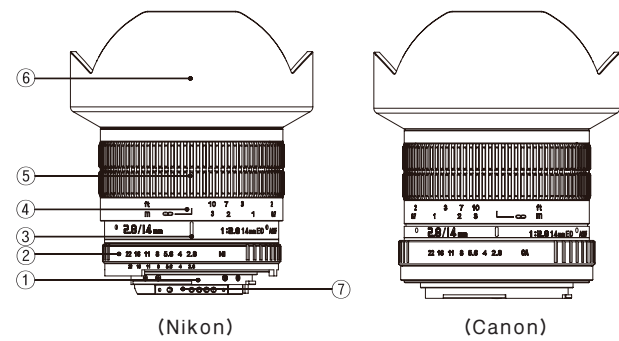5. Maintains an unchanged size with its inner focus design.

This product is designed with its own mount so you can easily take photographs by mounting the lens directly onto the camera, without installing an additional adaptor .

Read this manual carefully to familiarize yourself with your lens for correct use.
※ 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】

(Nikon)　　　(Canon)

① Mount
② Aperture adjustment ring
③ Indicator mark
④ Distance scale
⑤ Focusing ring
⑥ Hood
⑦ CPU (electronic contacts)

2. Attaching and Detaching

The 14mm F2.8 ED AS IF UMC lens mount is uniquely designed for Canon, Nikon (Fujifilm) F, Pentax (Samsung GX) K, Sony α (Minolta), Canon M, Sony E, Fujifilm X, Samsung NX, Four Thirds, and Micro Four Thirds cameras.

【Attaching】
Hold the lens hood gently and align the camera mount attachment point with the attachment reference point or line on the lens. Push the lens into the camera and gently rotate the lens in the attachment direction until it makes a clicking sound.

【Detaching】
Hold the lens hood gently and press the lens release button on the camera. Turn the lens in the opposite direction of the attaching direction to detach the lens.

3. Focus Adjustment

You can adjust the focus by turning the focusing ring when using the 14mm F2.8 ED AS IF UMC lens, as it is a Manual Focus (MF) 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 to the left (∞ to 0.28 m) and focus on the clearest subject by using the indication 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 to the right (0.28 m to ∞) and focus on the clearest subject by using the indication signal on the camera, or by checking visually.

【Sony α, E / Canon, Canon M / FT, MFT / Fujifilm X / Samsung NX Mount】
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4. Brightness Control

You can set the depth of field and brightness by turning the aperture adjustment ring when using the 14mm F2.8 ED AS IF UMC lens.
The F numbers can be set from 2.8 to 22.

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The 14mm F2.8 ED AS IF UMC lens is a wide-angle lens and captures a vivid wide angle of view by minimizing image distortion. You can capture extensive panoramas, which is very useful for landscape shooting.
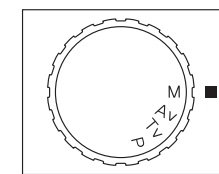
6. Camera Settings

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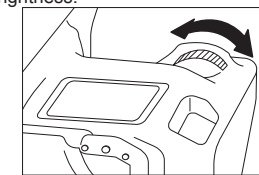Please refer to the following and set the camera when necessary.

○ Canon Mount

The diaphragm of the 14mm F2.8 ED AS IF UMC 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.

※ 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.)
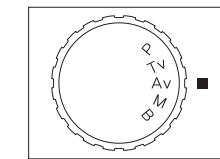
○ Nikon (Fujifilm) Mount

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.
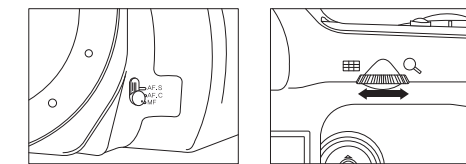
○ Pentax (Samsung GX) K Mount

The 14mm F2.8 ED AS IF UMC 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
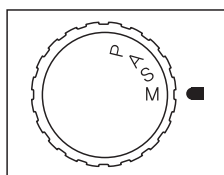The user sets the menu. ► the aperture ring is used. ► Not allowed.

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 14mm F2.8 ED AS IF UMC 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.)
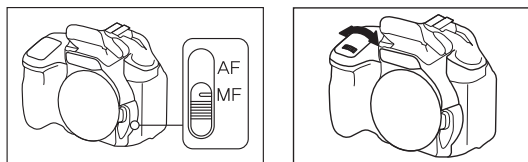
○ Konica Minolta (Minolta), DYNA Series Cameras

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.

9xi ··· function button + AE lock button	303si ··· AV button + self mode button
7xi ··· function button + AE lock button	303si SUPER ··· drive button + spot button
5xi ··· function button + spot button	101si ··· self-timer button + flash button
3xi ··· Modification is required at a service center.	360si ··· self-timer continuous shooting button + screen select button
807si ··· AEL 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, II L ··· Set the camera to custom function 14 and change selection number from 1 to 2 (N.A).
α-7, -9, -TI ··· 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.
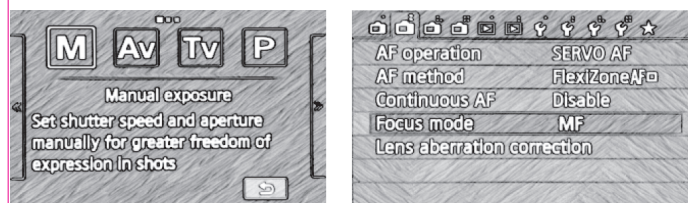
(The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera instruction manual or contact the camera manufacturer for detailed information.)

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

The diaphragms of the 14mm F2.8 ED AS IF UMC 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.
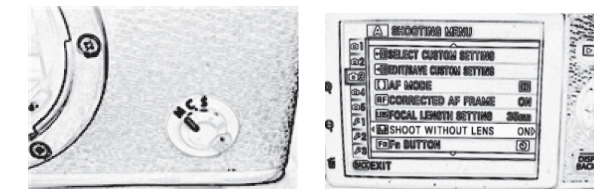
【Canon M Mount】

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.)
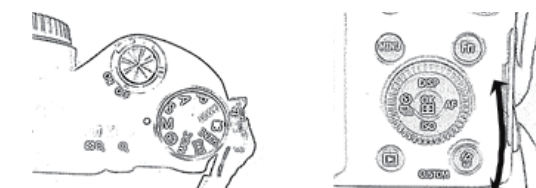
【Fujifilm X Mount】

1) Set the focus mode to M.

2) Press the MENU/OK button, and select ON in '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.
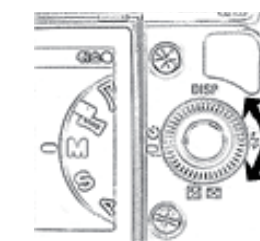2) Adjust the shutter speed by turning the dial to achieve the appropriate exposure for the brightness.

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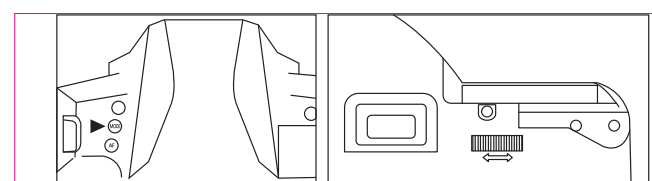
(The procedures above are for the NEX-5. The settings for the camera or the menu may vary based on the model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)
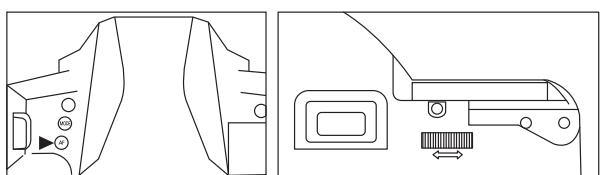
○ Four Thirds, Micro Four Thirds

The diaphragms of the 14mm F2.8 ED AS IF UMC 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.
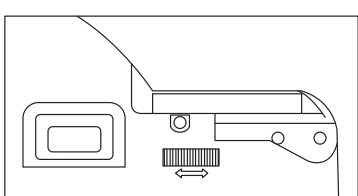
【Four Thirds Mount】

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)

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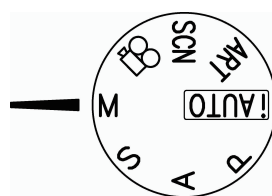AF + control dial ► MF setting (manual focusing)

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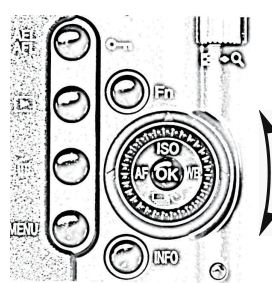

(The procedures above are for the Olympus E-3. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

【 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.)

7. Specifications

Focal length	14mm	
Aperture range	F2.8 ~ 22	
Image sensor size	24 X 36mm	
Angle of view	35mm (1:1x)	115.7° (diagonal)
	APS-C (1:1.5x)	93.9° (diagonal)
	APS-C (1:1.6x)	89.9° (diagonal)
	Four-Thirds (1:2x)	76.2° (diagonal)
Focusing range	∞ to 0.28m(0.9ft)	
Filter connection	None	
Maximum Diameter	Ø 87mm	
Optical construction	14 elements in 10 groups (1 glass ASP & 1 hybrid ASP)	

Mount		Canon	Nikon AE	Pentax	Sony α	Canon M	Fujifilm X	Samsung NX	Sony E	Four-Thirds	Micro Four-Thirds
Angle of View	35mm	115.7°	115.7°	115.7°	115.7°						
	APS-C	89.9°	93.9°	93.9°	93.9°	93.9°	93.9°	93.9°	93.9°	–	
	FOUR-THIRDS (4/3")					–				76.2°	76.2°
Length (mm)		96.1	93.6	94.6	956	122	122.4	114.6	122.1	101.1	120.9
Weight (g)		550g	530g	530g	530g	570g	575g	570g	570g	560g	570g
Function		A / S/ M / P mode (NIKON AE)									

8. Troubleshooting

Issue	Causes	Corrective Action
A lens cannot be attached to the camera.	The attachment reference point on the lens is not aligned with the lens attachment reference point on the camera.	Align the attachment reference point on the lens with the lens attachment reference point on the camera.
A 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 gently turn the lens to the lens attaching/detaching reference points, in the direction as marked on the camera, and then pull the lens forward.
Blurry images	Incorrect focusing Insufficient shutter speed or camera shake.	Turn the focusing ring while checking the indication or checking an object visually, set the focus until it becomes clear, and then press the shutter. Steady the camera and take a photograph at a shutter speed of 1/125 secs.
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.	A manual focusing lens has trouble with automatic focusing.	Use the focusing ring to adjust the focus.
Dark or too bright pictures	Inappropriate exposure	Adjust the aperture adjustment ring accordingly.
The camera flash is not functioning.	The 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 (which relays distance information to the camera).
The camera finder indication or the display does not display.	This lens does not have an electric contact signal, so there is no communication with the camera through electric signals.	No problem with shooting
Zooming failure	This lens is a single lens.	
This lens cannot be mounted on other cameras.	This lens is designed for its own mount.	Purchase the designated lens mount.
You want to attach our 2X or 1.4X converter lens.	Our converter is designed for the T (M42 screw) mount only. Therefore it cannot be used with the 16 mm F2.0 AS UMC CS lens.	Use each company's own mount converter. However, be aware that auto focusing is unavailable.

9. 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 of 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 hot be removable, or may become loose and cause an accident.
○ Don't attempt to modify or alter the lens. It may lead to failure of the camera. Modified lenses that cannot be repaired.
○ Don't put excessive pressure on the lens attached to the camera, otherwise it may cause damage to the lens or property; otherwise the lens may hot be removable, or may cause damage to the lens when operating or moving.
○ Don't leave the lens in direct sunlight. It may cause a fire, depending on the lens if sensing sunlight concentrated light on a close object.
● 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 look at the sun directly through a camera with a lens attached. It may cause damage to your child's eyesight.

WARNING!
Do not wet this product 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 or stereo amplifiers.
● Do not leave the lens in conditions where drastic temperature changes can occur.
● Do not touch the surface of the lens by hand, and avoid making contact with sharp objects.
● Avoid dropping 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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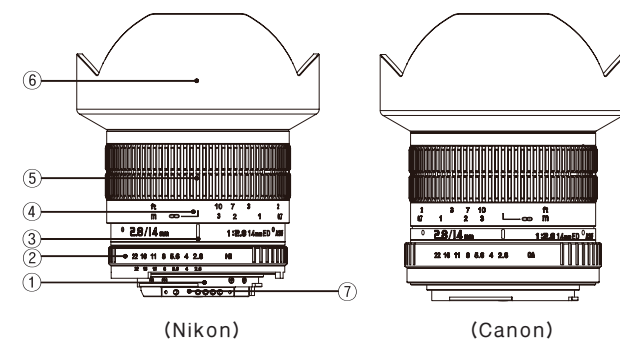5. Maintains an unchanged size with its inner focus design.

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【Detaching】

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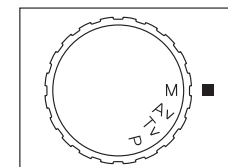
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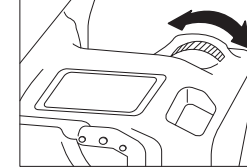
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The diaphragm of the 14mm F2.8 ED AS IF UMC Canon mount is not compatible with the camera.
If the brightness is set to F8 or above, you may not be able to set the correct focus due to a difficulty in viewing the subject through the camera viewfinder. 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.

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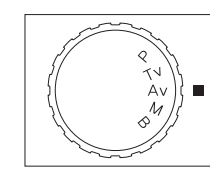
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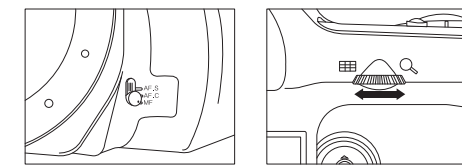
○ Pentax (Samsung GX) K Mount

The 14mm F2.8 ED AS IF UMC 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
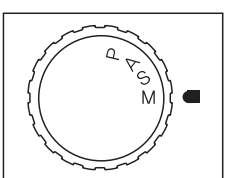   The user sets the menu. ► The aperture ring is used. ► Not allowed.

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.)
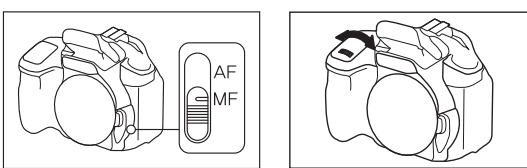

○ Sony (Minolta) α Mount

The diaphragm of the 14mm F2.8 ED AS IF UMC 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.

9xi ··· function button + AE lock button	303si ··· AV button + self mode button
7xi ··· function button + AE lock button	303si SUPER ··· drive button + spot button
5xi ··· function button + spot button	101si ··· self-timer button + flash button
3xi ··· Modification is required at a service center.	360si ··· self-timer continuous shooting button + screen select button
807si ··· AEL 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, II L ··· Set the camera to custom function 14 and change selection number from 1 to 2 (N.A).
α-7, -9, -Ti ··· 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 14mm F2.8 ED AS IF UMC 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.

Manual exposure
Set Shutter speed and aperture manually for greater freedom of expression in shots.

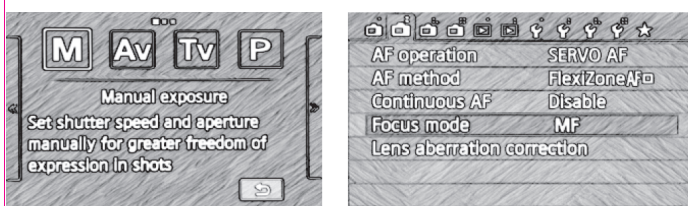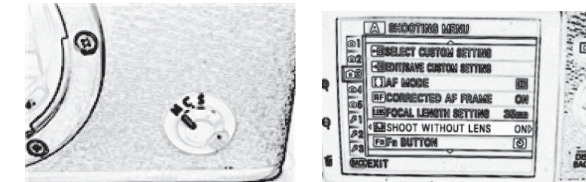|	
AF operation	SERVO AF
AF method	FlexiZoneAF
Continuous AF	Disable
Focus mode	MF
Lens aberration correction	

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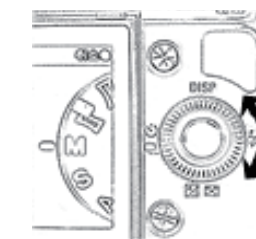2) Adjust the shutter speed by turning the dial to achieve the appropriate exposure for the brightness.

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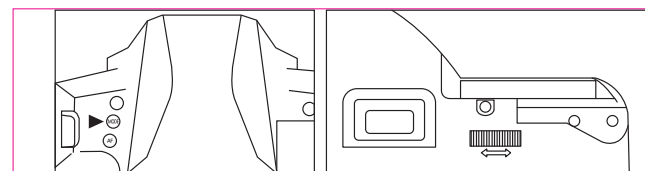
(The procedures above are for the NEX-5. The settings for the camera or the menu may vary based on the model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)
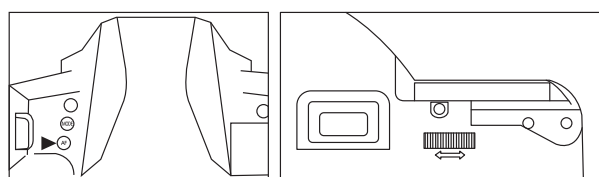
○ Four Thirds, Micro Four Thirds

The diaphragms of the 14mm F2.8 ED AS IF UMC 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.
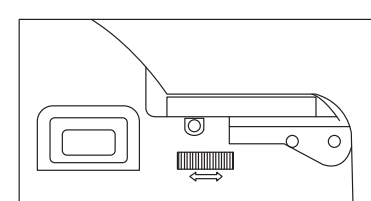
【Four Thirds Mount】

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)

【Micro Four Thirds Mount】

1) Set the camera mode dial to M.

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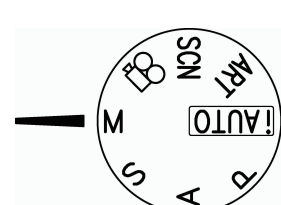   AF + control dial ► MF setting (manual focusing)

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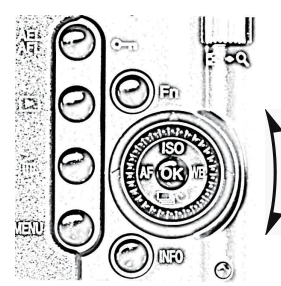

(The procedures above are for the Olympus E-3. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

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.)

7. Specifications

Focal length	14mm									
Aperture range	F2.8 ~ 22									
Image sensor size	24 X 36mm									
Angle of view	35mm (1:1x)			115.7° (diagonal)						
	APS-C (1:1.5x)			93.9° (diagonal)						
	APS-C (1:1.6x)			89.9° (diagonal)						
	Four–Thirds (1:2x)			76.2° (diagonal)						
Focusing range	∞ to 0.28m(0.9ft)									
Filter connection	None									
Maximum Diameter	Ø 87mm									
Optical construction	14 elements in 10 groups (1 glass ASP & 1 hybrid ASP)									
Mount	Canon	Nikon AE	Pentax	Sony α	Canon M	Fujifilm X	Samsung NX	Sony E	Four-thirds	Micro Four-Thirds
Angle of View — 35mm	115.7°	115.7°	115.7°	115.7°						
APS-C	89.9°	93.9°	93.9°	93.9°	93.9°	93.9°	93.9°	93.9°	–	
FOUR-THIRDS (4/3")									76.2°	76.2°
Length (mm)	96.1	93.6	94.6	956	122	122.4	114.6	122.1	101.1	120.9
Weight (g)	550g	530g	530g	530g	570g	575g	570g	570g	560g	570g
Function	A / S / M / P mode (NIKON AE)									

8. Troubleshooting

Issue	Causes	Corrective Action
A lens cannot be attached to the camera.	The attachment reference point on the lens is not aligned with the lens attachment reference point on the camera.	Align the attachment reference point on the lens with the lens attachment reference point on the camera.
A 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 gently turn the lens to the lens attaching/detaching reference points, in the direction as marked on the camera, and then pull the lens forward.
Blurry images	Incorrect focusing. Insufficient shutter speed or camera shake.	Turn the focusing ring while checking the indication or checking an object visually, set the focus until it becomes clear, and then press the shutter. Steady the camera and take a photograph at a shutter speed of 1/125 secs.
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.	A manual focusing lens has trouble with automatic focusing.	Use the focusing ring to adjust the focus.
Dark or too bright pictures	Inappropriate exposure	Adjust the aperture adjustment ring accordingly.
The camera flash is not functioning.	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 (which relays distance information to the camera).
The camera finder indication or the display does not display.	This lens does not have an electric contact signal, so there is no communication with the camera through electric signals.	No problem with shooting.
Zooming failure	This lens is a single lens.	
This lens cannot be mounted on other cameras.	This lens is designed for its own mount.	Purchase the designated lens mount.
You want to attach our 2X or 1.4X converter lens.	Our converter is designed for the T (M42 screw) mount only. Therefore it cannot be used with the 16 mm F2.0 ED AS UMC CS lens.	Use each company's own mount converter. However, be aware that auto focusing is unavailable.

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.

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

⚠ CAUTION

⊘ 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 removing.
⊘ Don't attempt to modify or alter the lens. It may cause a fire, depending on lens or camera. Modified or altered lenses may not be repaired.
⊘ Don't leave the lens in direct sunlight. It may cause direct 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.
● Consider 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.

WARNING!
Do not wet this product 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 or stereo amplifiers.
● Do not leave the lens in conditions where drastic temperature changes can occur.
● Do not touch the surface of the lens by hand, and avoid making contact with sharp objects.
● Avoid dropping 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.