

• Reflex 1:6.3 300mm ED UMC CS Lens (Canon M, Fujifilm X, Sony E, MFT) Instruction Manual

Thank you for purchasing the Reflex 1:6.3 300mm ED UMC CS lens.

We believe that you will have a special photographic experience with this new Reflex 1:6.3 300mm ED UMC CS lens.

With an optical design optimized for mirrorless cameras such as the Canon M, Fujifilm X, Sony E and MFT, the Reflex 1:6.3 300mm ED UMC CS lens provides good portability, a compact size, and an ability to produce various images from both close up and long distance shooting.

Advantages of the Reflex 1:6.3 300mm ED UMC CS lens

- 1. A reflective system for APS-C (1:1.5x) mirrorless cameras
- 2. Through its premium optical design, it corrects aberrations and produces a high resolution and high contrast at the center of the lens as well as around its periphery.
- 3. The lens hood and multi-coating design suppress flaring and ghost images.
- 4. Corrects aberrations and produces stable images with the low dispersion lens.

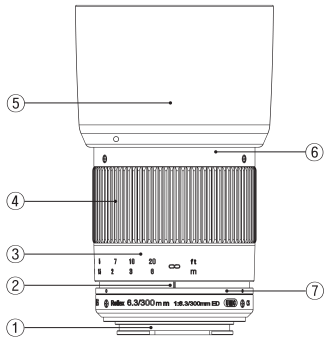
The Reflex 1:6.3 300mm ED UMC CS lens is uniquely designed for Canon M, Fujifilm X, Sony E and MFT cameras. You can easily take photographs by mounting the lens directly onto the camera, without installing an additional adaptor.

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】



- ① Mount
- ② Distance scale indicator mark
- ③ Focus scaling ring
- ④ Focusing ring
- ⑤ Hood
- ⑥ Hood locking area
- ⑦ Red ring

2. Attaching and Detaching

The Reflex 1:6.3 300mm ED UMC CS lens is uniquely designed for Canon M, Fujifilm X, Sony E and MFT cameras.

【Attaching】

Hold the lens hood gently, and align the camera mount attachment point with the camera locking reference point on the lens. Next, push the lens into the camera and turn the lens gently until it makes a clicking sound, and the distance scale indicator mark is positioned on the upper part of the camera.

【Detaching】

Hold the lens hood gently, press the lens release button on the camera, and 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 Reflex 1:6.3 300mm ED UMC CS lens, as it is a Manual Focus (MF) adjustment lens.

【Canon M, Fujifilm X, Sony E, MFT 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 0.9 m) and focus on the clearest subject by using the indication signal on the camera, or through the LCD.
- ② To change the focus from a subject that is close to a subject that is far away, turn the focusing ring to the left (0.9 m to ∞) and focus on the clearest subject by using the indication signal on the camera, or through the LCD.

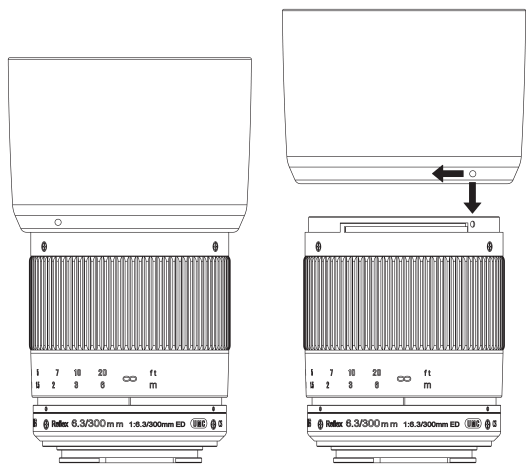
4. Brightness Control

The Reflex 1:6.3 300mm ED UMC CS lens does not have an additional diaphragm, so the brightness can be adjusted by using the ISO sensitivity and the shutter speed. If the shutter speed is low, a moving subject cannot be captured successfully. Adjust the sensitivity and exposure properly.

5. Mounting the Hood

The hood has a bayonet system which guarantees speedy, efficient, safe and precise installation, and enables you to enjoy shooting experience that is free from ghosting or flaring.

【Figure】



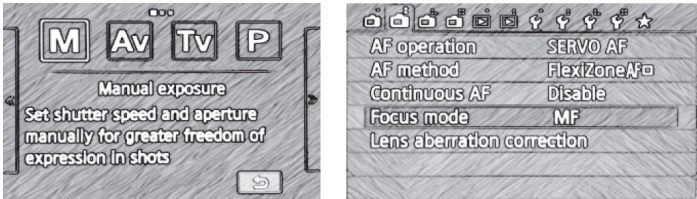
Align the attachment reference point on the hood with the reference point on the lens. Push the hood onto the lens and turn the hood to the right until it makes a clicking sound.

6. Camera Settings

The diaphragm of the Reflex 1:6.3 300mm ED UMC CS (Canon M, Fujifilm X, Sony E, MFT) lens is not compatible with the camera.

【Canon M Mount】

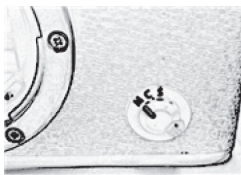
- 1) Set the exposure to manual exposure (M) and change the focus mode to MF.



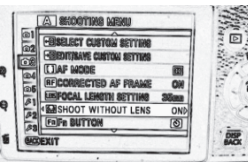
(The procedures above are for the Canon M. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera instruction manual or contact the camera manufacturer for detailed information.)

【Fujifilm X Mount】

- 1) Turn the camera power on, and set the focus mode selector on the camera to M. Using the command dial for partial magnification will make focusing easier.



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



(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.)

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. If the lens hood is cut by the user, it may cause damage to the surface of the lens, as the surface of the lens may make contact with the floor.

10. Safety Precautions

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

CAUTION! 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 serious injury to the user.

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

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 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 attachment reference points, the lens will become stuck, and then press the lens release button on the camera, and gently turn the lens to the left to pull the lens forward.	Press the lens release button on the camera, and gently turn the lens to the left to pull the lens forward.
Blurry images	Incorrect focusing. If the focusing ring is not properly rotated, the lens may not be focused. Also, if the camera is not steady, the image may be blurry.	Turn the focusing ring with the checking a magnified image in Live View, set the focus to the desired distance, and then press the shutter. Steady the camera and take a photograph at a shutter speed of 1/125 sec.
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. The manual control may not be compatible, depending on the camera.	Set the shutter speed of the camera properly.
The camera flash is not functioning.	This lens does not have an electric contact signal, so there is no connection 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 Zx or 1.4x converter lens.	Our converter is designed for the 1.4x converter mount only. Therefore, it cannot be used with this lens. However, the lenses that auto focusing is unavailable.	Use each company's own mount converter.

8. Specifications	
Focal length	300 mm
Max. aperture	F6.3 (Fixed)
Image sensor size	APS-C
Angle of view	APS-C (1:1.5x)
	5.4° (diagonal)
Focusing range	∞ to 0.9 m
	Φ 25.5 (Rear)
Filter connection	Φ 25.5 (Rear)
Number of elements	9 Elements
Number of groups	9 Groups
Size	Canon M
	73.7 mm × Ø 64.5 mm
Size	Fujifilm X
	74.1 mm × Ø 64.5 mm
Size	Sony E
	73.8 mm × Ø 64.5 mm
Size	Micro Four Thirds
	72.6 mm × Ø 64.5 mm
Weight	Canon M
	318 g
Weight	Fujifilm X
	316 g
Weight	Sony E
	318 g
Weight	Micro Four Thirds
	311 g

7. About Photography

※ For some Olympus (MFT) and Panasonic (MFT) cameras, if you set the camera mode dial to A and set the brightness, 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.

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, 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.

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, 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.

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.

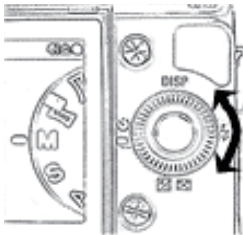
For some Sony E cameras, if you set the camera mode dial to A and set the brightness, the camera automatically changes the shutter speed. Therefore you don't need to adjust the shutter speed as well, which is required in M mode.

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.

【 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.

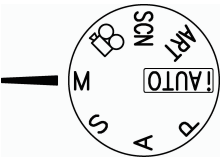


※ For some Sony E cameras, if you set the camera mode dial to A and set the brightness, the camera automatically changes the shutter speed. Therefore you don't need to adjust the shutter speed as well, which is required in M mode.

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

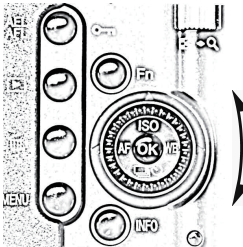
【 MFT Mount 】

- 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, 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. About Photography

The Reflex 1:6.3 300mm ED UMC CS lens is a telephoto lens which uses a reflective optical system. You can produce very interesting photos with this feature. This telephoto lens has a long focal length, so it is very useful for shooting a still object from afar.

8. Specifications

Focal length	300 mm	
Max. aperture	F6.3 (Fixed)	
Image sensor size	APS-C	
Angle of view	APS-C (1:1.5x)	5.4° (diagonal)
	Four Thirds (4/3")	4.2° (diagonal)
Focusing range	∞ to 0.9 m	
Filter connection	Φ 25.5 (Rear)	
Number of elements	9 Elements	
Number of groups	9 Groups	
Size	Canon M	73.7 mm × Ø 64.5 mm
	Fujifilm X	74.1 mm × Ø 64.5 mm
	Sony E	73.8 mm × Ø 64.5 mm
	Micro Four Thirds	72.6 mm × Ø 64.5 mm
Weight	Canon M	318 g
	Fujifilm X	316 g
	Sony E	318 g
	Micro Four Thirds	311 g

9. 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 a magnified image in Live View, 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.
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	Set the ISO sensitivity properly. Set the shutter speed of the camera properly.
The camera flash is not functioning.	The manual control lens may not be compatible, depending on the camera.	See the camera manual.
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 this lens.	Use each company's own mount converter. However, be aware that auto focusing is unavailable.

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.

⚠ 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.

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 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 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 look at the sun directly through a camera with a lens attached. It may cause damage to one'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.
- If the lens hood is cut by the user, it may cause damage to the surface of the lens, as the surface of the lens may make contact with the floor.