

85mm F1.8 ED UMC CS
Instruction Manual

The 85mm F1.8 ED UMC CS lens is compact and conveniently portable through an optical design optimized for Sony E, Fujifilm X, Canon M and MFT mirrorless cameras. It enables the photographer to shoot various types of images at both close range and far away.

Advantages of the 85mm F1.8 ED UMC CS lens:

1. Optical design responds to the size of mirrorless APS-C sensors
2. It compensates for aberrations by using a lens made with high-quality materials, such as a high refractive lens and low dispersive lens, and at the fully opened position it produces high resolution and high contrast at the center of the lens as well as around the periphery.
3. F1.8 brightness ensures clear images even in low light, and the shallow depth enables a beautiful blurred background
4. Produces sharp images both at distance and up close with its floating focus design
5. 9 almost-circular aperture allow circular bokeh (out-of-focus areas) and star-like rays to be expressed clearly.

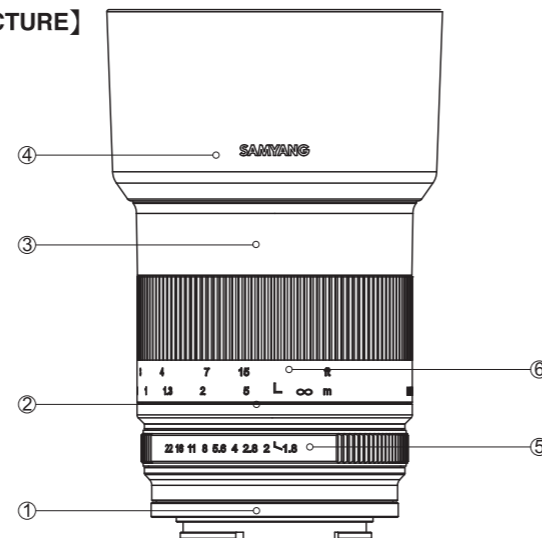
The lens includes its own mount, allowing direct attachment to the camera and removing the need to use an additional adaptor.

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

● **Read this instruction manual prior to use.** ●

1. Component Names

[PICTURE]



- ① Mount ② Reference line ③ Hood locking tube
- ④ Hood ⑤ Aperture adjustment ring
- ⑥ Focusing ring (Distance scale)

2. Attaching and Detaching

The 85mm F1.8 ED UMC CS lens is uniquely designed for Sony E, Fujifilm X, Canon M and MFT cameras.

[Attaching]

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

[Detaching]

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

When using the 85mm F1.8 ED UMC CS lens, you can set the focus of a subject by turning the focus adjustment ring, since it is an MF (Manual Focus) adjustment lens.

- ① To change the focus from a subject that is far away to a subject that is close, turn the focus adjustment ring to the right (from ∞ to 0.65m) 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 focus ring to the left (from 0.65m to ∞) and focus on the clearest subject by using the indication signal on the camera or through the LCD.

4. Aperture adjustment

You can set the desired brightness or depth by turning the aperture ring when using the 85mm F1.8 ED UMC CS lens.

[Aperture adjustment ring markings]

22 16 11 8 5.6 4 2.8 2 1.8
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Each number between 1.8~22 is 1 stop away from the next number. Brightness can be set more precisely by using the stop setting in between (0.5 stop between 1.8 and 2).

ex)

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

22 16 11 8 5.6 4 2.8 2 1.8
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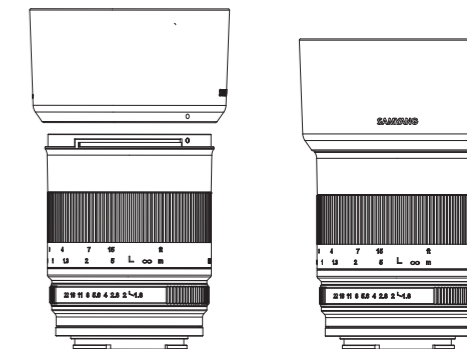
Set a brightness between 5.6 and 8, which is 0.5 of a stop (0.5 EV) between the two.

22 16 11 8 5.6 4 2.8 2 1.8
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5. Mounting the Hood

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

[PICTURE]



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

6. Specifications

SPECIFICATIONS		85mm F1.8 ED UMC CS			
APERTURE RANGE		F1.8 ~ 22			
OPTICAL CONSTRUCTION		9 ELEMENTS IN 7 GROUPS			
MINIMUM FOCUSING DISTANCE		0.65m			
FILTER SIZE		Ø 62.0mm			
MAXIMUM DIAMETER		Ø 67.5mm			
MOUNT		SONY E	FUJIFILM X	CANON M	MICRO FOUR-THIRD
LENGTH	APS-C	19.1	19.1°	18.0°	-
	FOUR-THIRDS (4/3")	-	-	-	14.7°
LENGTH		80.7mm	81.0mm	80.6mm	79.5mm
WEIGHT(Including lens cap and hood)		405g	423g	405g	417g

7. Troubleshooting

Symptom	Cause	Action
The 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 subject with the indicator in the camera or checking visually to set the focus until the subject is clear, and then press the shutter. After setting a shutter speed of 1/125 seconds or faster, steady the camera and take a photograph.
Automatic focusing does not work properly.	A manual focusing lens has trouble with automatic focusing.	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 properly. Set the shutter speed of the camera properly.
The periphery gets dark when using a manual camera or a digital camera with a 1:1 image sensor.	As this lens is optimized for APS-C size images, the periphery gets dark when using a digital camera for 1:1 sized images.	Use a camera for APS-C sized images.
The camera flash is not synchronized to the camera.	The manual control lens may not be compatible, depending on the camera.	Refer to the instruction manual of the camera.
There is no camera finder indication or display.	This lens doesn't have electronic contacts, so there is no electronic communication with the camera.	No problem with shooting.
Zoom failure.	This lens is a single lens.	
This lens cannot be mounted on other cameras.	This lens is designed for a specific mount.	Please buy the required camera to use this lens.

8. Safety Precautions

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

⚠ WARNING Not following these instructions may result in death or severe injury to the user.	⚠ CAUTION Not following these instructions may result in product damage or injury to the user.
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The following pictograms are used in the below precautions:

This pictogram indicates that caution is required. Inside the pictogram it shows the contents of precautions. (The pictogram on the left shows the caution for ignition.)	This pictogram indicates prohibition. Inside the pictogram it shows contents of prohibitions. (The pictogram on the left shows the prohibition of disassembly.)
This pictogram indicates instruction. Inside the pictogram it shows the contents of instructions. (The left pictogram shows an instruction of precaution.)	

⚠ WARNING	⚠ CAUTION	⚠ CAUTION	⚠ CAUTION
 Do not look at the sun through the lens. Doing so may cause blindness.	 Attach the lens to the camera correctly and ensure the lens is held in place properly. If the lens is not attached correctly, it may not be pulled out or it may fall out causing injury.	 Do not apply excessive weight to the lens when attached to the camera. It may cause damage to the lens and camera mounts. 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 before important events such as a wedding ceremony or an overseas trip.
 Keep the lens out of the reach of children. It may drop or fall down, causing injury.	 Do not attempt to modify or alter the lens. Doing so may lead to failure of the camera. Modified or altered lenses may not be repairable.	 Do not leave the lens in direct sunlight. Direct sunlight passing through the lens may be concentrated, causing a fire.	 Do not 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, stereo amplifiers.
- Do not expose the lens to drastic temperature changes.
- Do not touch the surface of the lens by hand and avoid making contact with sharp objects.
- Do not drop the lens.
- Do not soak the lens in water, and avoid water splashing onto the lens.
- If there are foreign bodies on the lens, use a lens cleaning kit only.
- If the hood is removed, the surface of the lens will be exposed and it may become scratched or break.

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