Canon

RF

600mm F11 IS STM
800mm F11 IS STM

Instructions

Thank you for purchasing a Canon product.

Canon RF600mm F11 IS STM and RF800mm F11 IS STM are super-telephoto lenses for use with EOS R series cameras.

● "IS" stands for Image Stabilizer.
● "STM" stands for Stepping Motor.

Camera Firmware

Please use the latest version of firmware with the camera in use. For details on whether the firmware is the latest version or not, and for details on updating the firmware, please check the Canon website.

Conventions used in these instructions

⬛ Warning to prevent lens or camera malfunction or damage.

📝 Supplementary notes on using the lens and taking pictures.

Safety Precautions

Precautions to ensure that the camera is used safely. Read these precautions thoroughly. Make sure all details are observed in order to prevent risks and injury to the user and other people.

⚠ **Warning** Details pertaining to risks that may result in death or serious injury.

● **Do not look directly at the sun or other strong light sources through a lens.** This may result in loss of sight.
● **Do not point the lens or camera at the sun or photograph it.** This is because the lens concentrates the sun's rays even when the sun is outside the image area or when shooting with backlight, which could cause malfunction or fire.
● **Do not leave a lens in the sun without the lens cap attached.** The lens may concentrate entering sunlight and cause a malfunction or fire.

⚠ **Caution** Details pertaining to risks that may result in injury or damage to other objects.

● **Do not leave the product in places exposed to extremely high or low temperatures.** The product may cause burns or injury when touched.
● **Do not insert your hand or fingers into the product**. This may result in injury.
● **Attach a tripod or monopod that is sufficiently sturdy to the tripod mount on the lens.**

General Precautions

Handling Precautions

- Do not leave the product in excessive heat such as in a car in direct sunlight. High temperatures can cause the product to malfunction.
- If the lens is taken from a cold environment into a warm one, condensation may develop on the lens surface and internal parts. To prevent condensation in this case, first put the lens into an airtight plastic bag before taking it from a cold to warm environment. Then take out the lens after it has warmed gradually. Do the same when taking the lens from a warm environment into a cold one.
- The interior of the lens may appear to shake, but this is not a malfunction and will not cause any problems.
- Please also read any lens related handling precautions listed in your camera's instruction manual.

Shooting Precautions

The lens uses a DO* lens. Colored flare might appear around the light source depending on shooting conditions, which is due to DO lens characteristics.

- For scenes where a light source is inside the screen, colored flare may occasionally appear as a halo of light around the light source.
- For scenes where a light source is outside the screen, colored flare may occasionally appear partially inside the screen. You can reduce or prevent these issues with the following steps according to the scene you are shooting.
  - Use your hand or paneling, an umbrella, etc. to block the light source and placed so that they do not appear in the screen.

* "DO" stands for Diffractive Optics.
Use of a DO lens provides favorable correction of chromatic aberration that occurs easily in super-telephoto lenses, achieving a more compact and lightweight design while providing good rendering capabilities.

General Precautions

◑ Shooting Precautions

The aperture setting is fixed at f/11 on this lens, and cannot be adjusted.
Adjust exposure using the shutter speed and ISO speed.

- Be aware of the following when selecting a shooting mode.
  - If [P] mode is selected, shutter speed is adjusted while the aperture setting remains fixed at f/11, and so actually it is the same as if selecting [Av] mode.
  - If [Av] mode is selected, the aperture setting cannot be adjusted.
  - If [Tv] mode is selected, the aperture setting is not adjusted, and so actually it is the same as if selecting [M] mode.
  - If [Fv] mode is selected, it is actually the same as if selecting [Av] or [M] mode, depending on the shutter speed and ISO speed settings.
- Also be aware of the following when shooting.
  - Since the aperture setting cannot be changed, the effect gained from stopping down (depth of field) cannot be adjusted.
  - When using safety shift and the camera automatically changes the manual settings to allow shooting at standard exposure, the aperture setting is not adjusted.
  - During AEB (auto exposure bracketing), the aperture setting is fixed at f/11 and does not change.
  - When using Portrait mode in the Special Scene Modes (on EOS RP cameras), the depth of field cannot be adjusted for a shallower depth, since the aperture setting cannot be adjusted.

Nomenclature

Hood mount (→ 12)

Focus mode switch (→ 9)

Focusing distance range selector switch (→ 10)

Lock ring (→ 8)

Filter mounting thread (→ 14)

Control ring (→ 10)

Focusing ring (→ 9)

Image stabilizer switch (→ 11)

Tripod mount (→ 14)

Lens mount index (→ 7)

Contacts (→ 7)

Lens mount (→ 7)

- The illustrations used in the explanations in this manual show the RF600mm F11 IS STM, but the RF800mm F11 IS STM is used in the same way.
- For detailed information, reference page numbers are provided in parentheses (→ **).

1. Attaching and Detaching the Lens

Lens mount index

Lens release button   Dust cap

Attaching the Lens

Align the lens mount indexes of the lens and camera, and turn the lens clockwise until you hear a click.

Detaching the Lens

Turn the lens counterclockwise while pressing the camera's lens release button. Detach the lens once it has stopped turning.

Please refer to the camera's instructions for details.
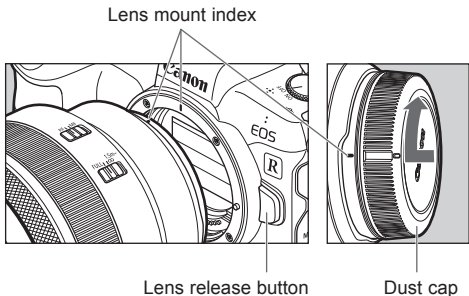
- Set the camera's power switch to OFF when attaching or detaching the lens.
- Attach the lens cap before detaching the lens from the camera.
- After detaching the lens, place the lens with the rear end up and attach the dust cap to prevent the lens surface and contacts from getting scratched. Make sure the lens and dust cap mount indexes are aligned when attaching the dust cap.
- Contacts that are scratched, soiled, or have fingerprints on them may result in faulty connections or corrosion, which may lead to malfunctions. If the contacts get soiled, clean them with a soft cloth.
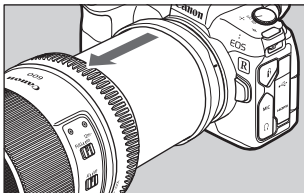
2. Preparing to Shoot (Extending/Retracting the Lens)

Before shooting, extend the lens barrel to the shooting position and lock it as follows. You cannot shoot while the lens is retracted.
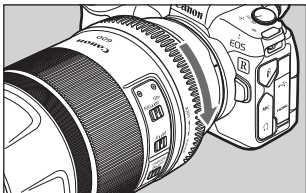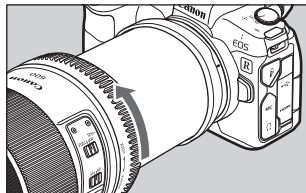
1 **Turn the lock ring toward "UNLOCK" all the way until you hear a click.**

- The lock ring clicks when you turn it all the way in either direction.

**2** **Extend the lens barrel frontward.**

3 **With the lens barrel extended, turn the lock ring toward "LOCK" all the way until you hear a click.**

- The lens barrel is locked.

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❶ ● The lens barrel can only be extended or retracted when the lock ring is at "UNLOCK".
  ● Note that when the lock ring is at "UNLOCK", the lens barrel may sometimes become extended or retracted unintentionally. Always hold the camera and lens securely when at "UNLOCK" and you are extending or retracting the lens barrel.
  ● To retract the lens barrel, follow the same steps, this time retracting the lens barrel and then turning the lock ring toward "LOCK" all the way until you hear a click.
  ● The lock ring can only be turned when the lens barrel is extended or retracted all the way.

3. Setting the Focus Mode

Focus mode switch
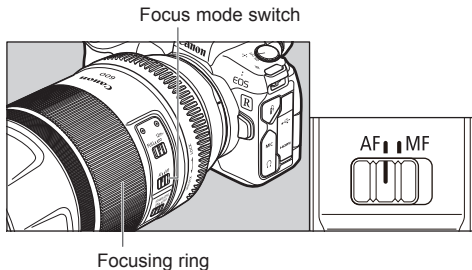
Focusing ring

To shoot in autofocus (AF) mode, set the focus mode switch to AF.

To use only manual focusing (MF), set the focus mode switch to MF, and focus by turning the focusing ring.

- ● Be sure to update the camera's firmware so it is compatible with this lens.
- ● The range-finding area with the camera* after updating the firmware is an area of the image plane of approx. 40% horizontal x approx. 60% vertical.
  This remains constant even if an extender is attached.
- ● Quickly turning the focusing ring may result in delayed focus.
- * As of March 2020: EOS R, EOS Ra, EOS RP

- ● The lens' focusing ring is electronic.
- ● When AF operation is set to [ONE SHOT], manual focus is possible after autofocusing has been completed by continuing to press the shutter button halfway. (Full-time manual focus) However, the camera settings need to be changed. Please refer to the camera's instructions for details.

4. Setting the Focusing Distance Range
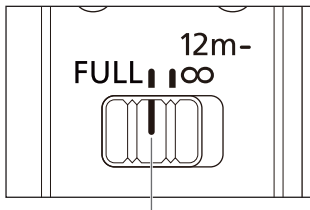

Focusing distance range selector switch

You can set the focusing distance range with a switch. By setting a suitable focusing distance range, the actual autofocusing time will be shorter.

Focusing distance range

Lens	Range
RF600mm F11 IS STM	Full (4.5m-∞)
	12m-∞
RF800mm F11 IS STM	Full (6m-∞)
	20m-∞

5. Control Ring

The control ring can be assigned the functions that are commonly used with cameras, such as shutter speed and ISO speed.
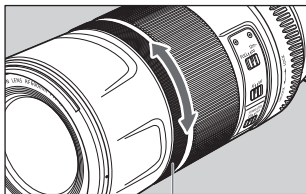
Control ring

The click action of the control ring allows you to have a sense of how much it is being turned. Please refer to the camera's instructions for details on how to use the control ring.

> ● There are cases in which the sound of control ring operations may be recorded when shooting movies.

> ● The clicking sensation of the control ring can be removed by the Canon Service Center. (chargeable)

6. Image Stabilizer

This function provides image stabilization appropriate for shooting conditions (such as shooting still subjects and panning shots).

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STABILIZER
ON | | OFF
```
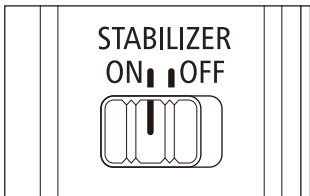
Set the image stabilizer switch to ON when you want to use the Image Stabilizer.

● Set the image stabilizer switch to OFF when you are not going to use the Image Stabilizer.
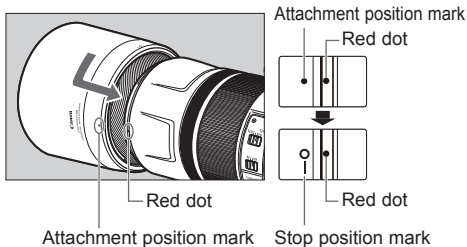
🛇 ● The Image Stabilizer cannot compensate for a blurred shot caused by a subject that moved.
  ● The Image Stabilizer may not be fully effective if you shoot from a violently shaking vehicle or other transportation.
  ● If using a camera that allows you to change the shutter type setting, it is recommended to use the electronic shutter for the first curtain* to allow the Image Stabilizer to be fully effective.

🛇 ● When using a tripod, the Image Stabilizer might not be fully effective or it might be better to set the image stabilizer switch to OFF, depending on the type of tripod and where the tripod is located, as well as on the camera's settings such as shutter speed.
  ● Even with a monopod, the Image Stabilizer will be as effective as during hand-held shooting. However, depending on the shooting conditions, there are cases in which the Image Stabilizer effect may be less effective.
  * For cameras where this change is possible with a Silent Live View Shooting setting, use Mode 1 (default setting) or Mode 2

📄 ● When shooting a still subject, it compensates for camera shake in all directions.
  ● It compensates for vertical camera shake during panning shots in a horizontal direction, and compensates for horizontal camera shake during panning shots in a vertical direction.

7. Hood (Sold Separately)

The custom lens hood cuts out unwanted light and protects the front of the lens from rain, snow, and dust.

Attachment position mark
Red dot
Red dot
Red dot
Attachment position mark Stop position mark

●**Attaching the Hood**

Align the red attachment position mark on the hood with the red dot on the front of the lens, and then turn the hood in the direction of the arrow until you hear a click.
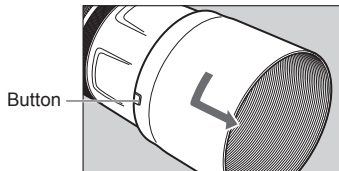
Button

●**Detaching the Hood**

Keep your finger pressed down on the button located on the side of the hood, and then turn the hood in the direction of the arrow until the attachment position mark on the hood is aligned with the red dot on the front of the lens to detach it.

The hood can be reverse-mounted on the lens for storage.

⚠ ● If the hood is not attached properly, vignetting (darkening of the perimeter of the picture) may occur.
● Grasp and turn the base of the hood when attaching and detaching it. There are cases in which it may become deformed if the hood is turned with it grasped near to the rim.

8. Extenders (Sold Separately)

Use an extender RF1.4× or RF2× to shoot a larger image of a subject. Lens specifications when using an extender are as follows.

Lens		RF600mm F11 IS STM		RF800mm F11 IS STM	
Extender		RF1.4×	RF2×	RF1.4×	RF2×
Focal length (mm)		840	1200	1120	1600
Aperture		f/16	f/22	f/16	f/22
Angle of view	Horizontal	2° 30'	1° 40'	1° 50'	1° 20'
	Vertical	1° 40'	1° 10'	1° 10'	50'
	Diagonal	3°	2°	2° 10'	1° 30'
Maximum magnification (×)		0.19	0.28	0.19	0.28

❶ • Attach the extender to the lens, and then attach the camera. To detach it, reverse the order. Errors may occur if you attach the extender to the camera first.
• Extenders cannot be used more than one at a time.

▤ • When an extender is attached, the AF speed will become slower to retain proper control.

9. Tripod Mount

A tripod or monopod attaches to the tripod mount on the lens.
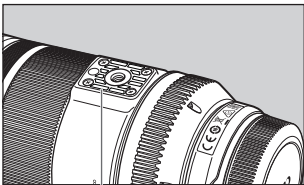
Tripod mount

10. Filters (Sold separately)

You can attach filters to the filter mounting thread on the front of the lens.

- ● Only one filter may be attached.
  - ● If you need a polarizing filter, use the Canon Circular Polarizing Filter PL-C B.
  - ● Detach the hood when adjusting the polarizing filter.

Specifications

	RF600mm F11 IS STM	RF800mm F11 IS STM
Focal Length/Aperture	600mm f/11	800mm f/11
Lens Construction	7 groups, 10 elements	8 groups, 11 elements
Minimum Aperture	f/11	f/11
Angle of View	Horizontal: 3° 30', Vertical: 2° 20', Diagonal: 4° 10'	Horizontal: 2° 35', Vertical: 1° 40', Diagonal: 3° 5'
Min. Focusing Distance	4.5 m/14.76 ft.	6.0 m/19.69 ft.
Max. Magnification	0.14×	0.14×
Field of View	Approx. 254 × 169 mm	Approx. 261 × 174 mm
Filter Diameter	82 mm	95 mm
Max. Diameter	Approx. 93 mm	Approx. 101.6 mm
Length	Approx. 199.5 mm (retracted)	Approx. 281.8 mm (retracted)
	Approx. 269.5 mm (shooting)	Approx. 351.8 mm (shooting)
Weight	Approx. 930 g/32.8 oz.	Approx. 1260 g/44.4 oz.
Hood	ET-88B (sold separately)	ET-101 (sold separately)
Lens Cap	E-82 II	E-95
Case	LZ1328 (sold separately)	LZ1435 (sold separately)

- The lens length is measured from the lens mount surface to the front end of the lens.
- The maximum diameter, length and weight listed are for the lens itself only.
- Close-up Lens cannot be attached because there is no size that fits the lens.
- All data listed is measured according to Canon standards.
- Product specifications and appearance are subject to change without notice.

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