



# RF

## 20-50mm F4 L IS USM PZ

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# Thank you for purchasing a Canon product.

The Canon RF20-50mm f/4 L IS USM PZ is a standard zoom lens for use with EOS R series cameras.

- “IS” stands for Image Stabilizer.
- “USM” stands for Ultrasonic Motor.
- “PZ” stands for Power Zoom.

## Conventions used in these instructions



Warning to prevent lens or camera malfunction or damage.



Supplementary notes on using the lens and taking pictures.

## Camera Firmware and Camera Applications

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



If the camera's\* firmware is not a compatible version, the following limitations will apply.

- Magnified view functionality is not available.
- There may be a discrepancy between the positions of AF points and actually metered positions.
- There may be some image distortion using the Movie Digital IS.

\*Applies to the following camera models: EOS R and EOS RP

# 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 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.

# 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 lens interior may appear to waver, but this does not indicate a defect or failure, and will not cause any problems in use.
- In order to optimize aperture control, there are occasions in which the aperture blades will move during zooming and focusing, even when the aperture value is set for aperture-priority AE or manual exposure, etc.
- Please also read any lens related handling precautions listed in your camera's instruction manual.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

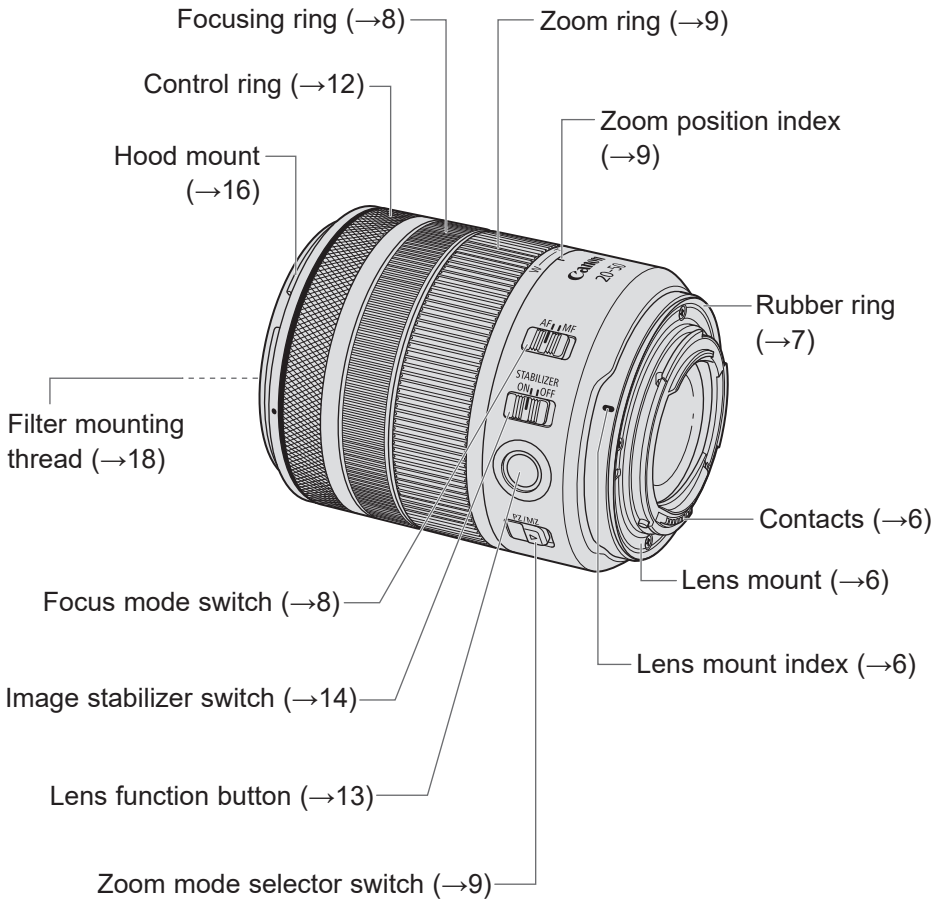
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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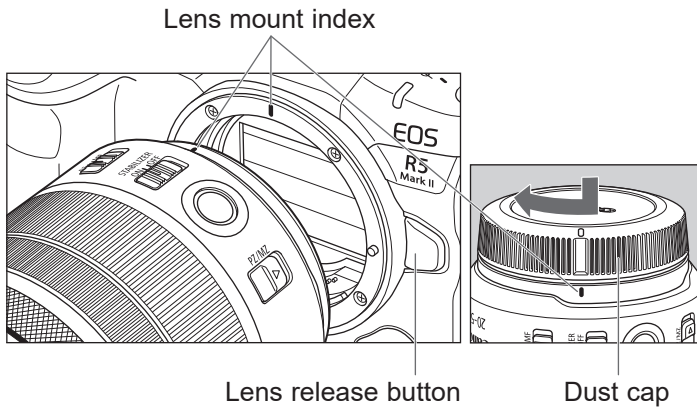
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# Nomenclature



- For detailed information, reference page numbers are provided in parentheses (→ \*\*).

# 1. Attaching and Detaching the Lens



## 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.

## Attaching and Detaching the Lens



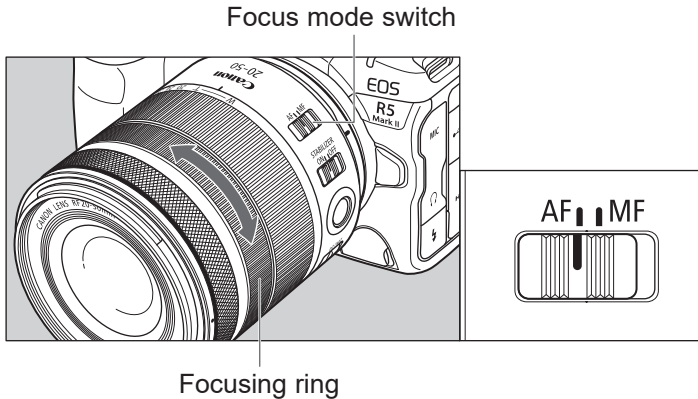
- Set the camera's power switch to OFF when attaching or detaching the lens.
- Attach the lens cap before detaching the lens from the camera.
- After detaching the lens, place the lens with the rear end up and attach the dust cap to prevent the lens surface and contacts from getting scratched. Make sure 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.
- The lens mount has a rubber ring to improve dust-resistance and water-resistance performance. This rubber ring may cause friction marks to appear around the camera's lens mount, although this will have no effect on usage.



- Rubber rings can be replaced at Canon Service Center. (chargeable)

## 2. Setting the Focus Mode

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.



- Quickly turning the focusing ring may result in delayed focus.

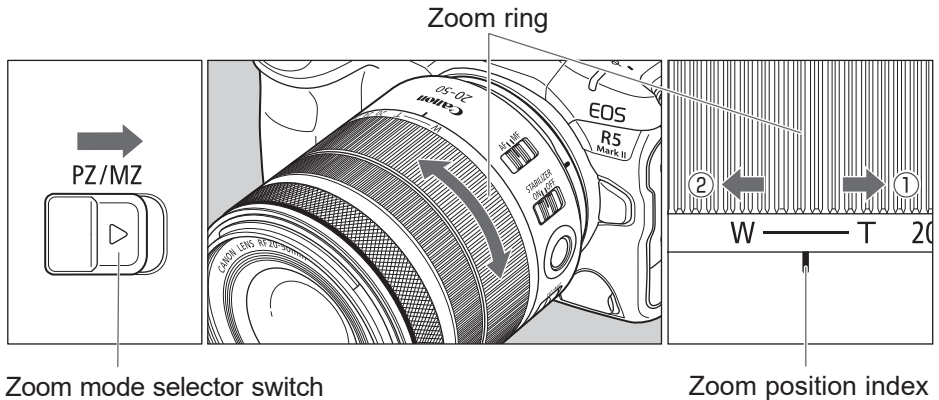


- The lens' focusing ring is electronic.
- The lens supports both lens electronic MF and electronic full-time MF.
- When movie recording, the AF speed will be slower than the still photo shooting mode. It is possible to adjust the AF speed on the camera by setting Movie Servo AF to [Enable].

Please refer to the camera's instructions for details.

### 3. Zooming

This lens can be switched between power zoom and manual zoom.



#### Switching to Power Zoom Mode

- 1 Slide the zoom mode selector switch in the direction of the arrow, hold it there while you turn the zoom ring between [W] and [T], then release the zoom mode selector switch.
- 2 When the zoom position index is at the mid-point between [W] and [T], the lens switches to power zoom mode.

#### Using Power Zoom Mode

- 1 Turning the zoom ring engages motorized zooming (Power Zoom). Turning the zoom ring towards the [W] side ① moves the lens towards the wide-angle position, while turning it towards the [T] side ② moves the lens towards the telephoto position. The zoom speed changes depending on the angle you turn the zoom ring. The more you turn it, the faster the zoom speed becomes.
- 2 When you release the zoom ring, it returns to its original position and zooming stops.

## Zooming

### Switching to Manual Zoom Mode

Slide the zoom mode selector switch in the direction of the arrow, hold it there while you turn the zoom ring between [20] and [50], then release the zoom mode selector switch to switch to manual zoom mode.

### Using Manual Zoom Mode

To zoom, turn the lens' zoom ring.



- Be sure to finish zooming before focusing. Zooming after focusing can affect the focus.
- When zooming rapidly in power zoom mode, or when turning the zoom ring quickly in manual zoom mode, the lens may temporarily lose focus.
- Lens operation sounds may be recorded while zooming when recording movies. In such cases, please zoom at a slower zoom speed.

## Zooming



- This lens' zoom ring is electronic.
- When using power zoom mode, changing the camera settings will allow zooming to be performed on the camera.\*<sup>1</sup>\*<sup>2</sup>
- In power zoom mode, the zoom speed when the zoom ring is turned differs in the initial setting between “during shooting standby” and “during movie recording”.
- In power zoom mode, the zoom speed when the zoom ring is turned can be adjusted from the camera settings.\*<sup>3</sup> The slowest speed, when the zoom ring is moved slightly, and the fastest speed, when the zoom ring is moved greatly, can both be set.

Please refer to the camera's instructions for details.

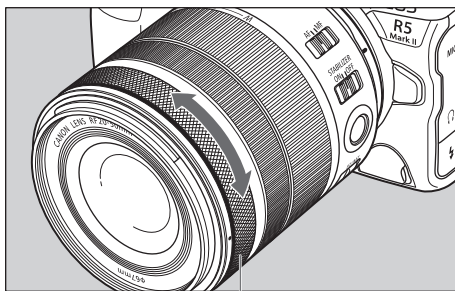
\*1 EOS R, RP, Ra, R3, R6, R6 Mark II, R7, R8, R10, R50, and R100 are excluded.

\*2 For the EOS R5 and R5C, they are only available in video shooting mode.

\*3 EOS R, RP, Ra, R1, R3, R5, R5C, R5 Mark II, R6, R6 Mark II, R7, R8, R10, R50, R100, C70, C80, and C400 are excluded.

## 4. Control Ring

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



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.

- Control ring operation sounds may be recorded when recording movies.

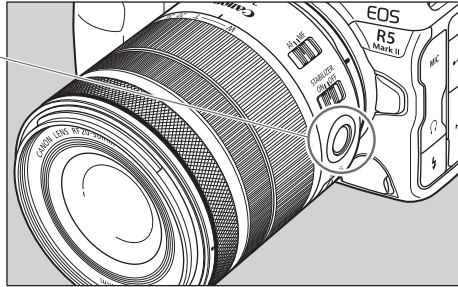
- The clicking sensation of the control ring can be removed by the Canon Service Center. (chargeable)

## 5. Lens Function Button (AF Stop Button)

In the default settings, the lens function button serves as an AF stop button. You can assign different functions to the button from the [Customize buttons] section of the camera.

Please refer to the camera's instructions for details.

Lens function button  
(AF stop button)



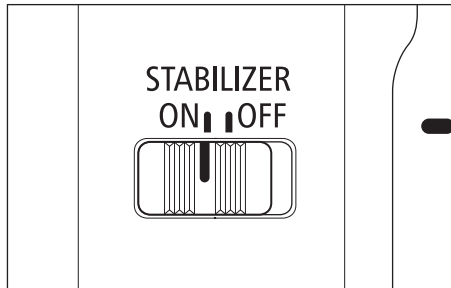
### Use as an AF stop button

During autofocus operation, you can press an AF stop button to temporarily pause autofocus, and then release the button to resume. Press an AF stop button to maintain a focusing distance or to avoid focus search.

Press the shutter button while holding down an AF stop button to shoot at that focusing distance.

- Useful when autofocus is operating mostly in Servo AF.

## 6. Image Stabilizer



Set the image stabilizer switch to ON when you want to use the Image Stabilizer.

- This function provides image stabilization appropriate for shooting conditions (such as shooting still subjects and panning shots).
- The coordinated control will work in combination with cameras with in-body 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.
- 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.

## Image Stabilizer

The Image Stabilizer for this lens is suited to hand-held shots in the following conditions.



- In semi-darkened areas such as indoors or outdoors at night.
- In locations where the flash cannot be used, such as art museums and theater stages.
- In situations where your footing is uncertain.
- In situations where fast shutter speed settings cannot be used.



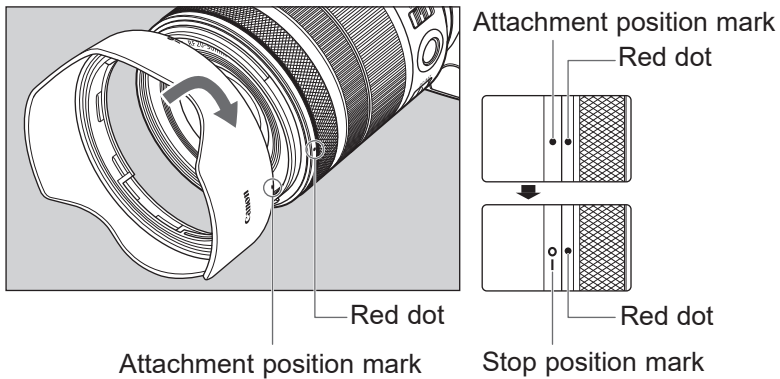
- Panning shots of vehicles, trains, etc.  
It compensates for vertical camera shake during panning shots in a horizontal direction, and compensates for horizontal camera shake during panning shots in a vertical direction.

## 7. Hood

The custom lens hood reduces unwanted light that causes flare and ghosting and protects the front of the lens from rain, snow, and dust.

### 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.

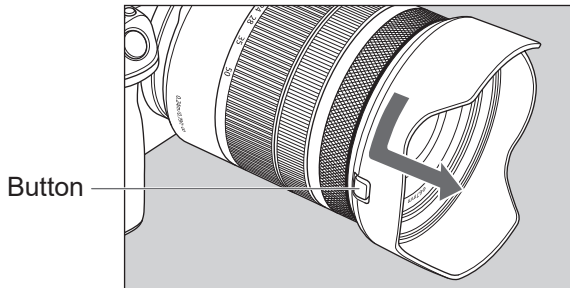


## Hood

### 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.

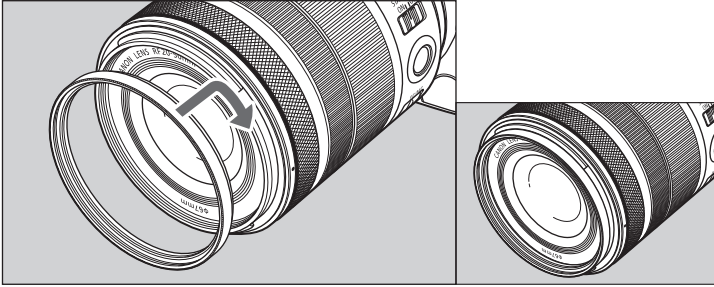
The hood can be reverse-mounted on the lens for storage.



- 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. Filters (Sold separately)

You can attach filters ( $\Phi 67$ ) 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

<b>Focal Length/ Aperture</b>	20-50mm f/4
<b>Lens Construction</b>	11 groups, 13 elements
<b>Maximum Aperture</b>	f/4
<b>Minimum Aperture</b>	f/22
<b>Angle of View</b>	Horizontal: 84° - 40°, Vertical: 62° - 27°, Diagonal: 94° - 46°
<b>Min. Focusing Distance</b>	0.24 m/0.79 ft.
<b>Max. Magnification</b>	0.33x (at 50 mm)
<b>Field of View</b>	Approx. 256 x 171 mm/10.08 x 6.73 in. (at 20 mm, 0.24 m/0.79 ft.) Approx. 102 x 68 mm/4.02 x 2.68 in. (at 50 mm, 0.24 m/0.79 ft.)
<b>Filter Diameter</b>	67 mm
<b>Max. Diameter and Length</b>	Approx. 79.9 x 98.4 mm/3.15 x 3.87 in.
<b>Weight</b>	Approx. 420 g/14.8 oz.
<b>Hood</b>	EW-73H*
<b>Lens Cap</b>	E-67II*
<b>Lens Dust Cap</b>	Lens Dust Cap RF/RF II*
<b>Case</b>	LP1219*

\* This comes included with the lens, but can also be purchased separately.

## Specifications

- The lens length is measured from the lens mount surface to the front end of the lens.  
Add 24.2 mm/0.95 in. when including the lens cap and dust cap.
- The maximum diameter, length and weight listed are for the lens itself only.
- Close-up Lens 250D/500D cannot be attached because there is no size that fits the lens.
- You cannot use extenders.
- Multiple exposure shooting is not possible when using this lens on certain cameras\*.  
\* EOS R, RP, Ra, R5, R5C, R6
- There are cases in which using the zoom function during continuous shooting may result in conspicuous image distortion.
- All data listed is measured according to Canon standards.
- Product specifications and appearance are subject to change without notice.

**Canon**