Canon EF LENS

EF70-300mm f/4-5.6 IS USM

IMAGE STABILIZER

ULTRASONIC

ENG

Instruction

Thank you for purchasing a Canon product.

Dedicated to EOS cameras, the Canon EF70-300mm f/4-5.6 IS USM lens is a high-performance telephoto zoom lens equipped with an Image Stabilizer.

- "IS" stands for Image Stabilizer.
- "USM" stands for Ultrasonic Motor.

Features

1. The Image Stabilizer gives the equivalent effect of a shutter speed three stops faster*. The lens also has a second image stabilizer mode that is optimized for following shots of moving subjects.
2. UD lens elements for excellent imaging performance.
3. The zoom ring can be fixed to keep the lens at the shortest point.
4. Ultrasonic motor (USM) for quick and quiet autofocusing.
5. A truly round aperture hole results in a nicer background blur.

* Based on [1/focal length] second. Generally, it requires a shutter speed [1/focal length] second or faster to prevent camera shake.

Conventions used in this instruction

Warning to prevent lens or camera malfunction or damage.

Supplementary notes on using the lens and taking pictures.

⚠ Safety Precautions

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- **Do not look at the sun or a bright light source through the lens or camera.** Doing so could result in loss of vision. Looking at the sun directly through the lens is especially hazardous.
- **Whether it is attached to the camera or not, do not leave the lens under the sun without the lens cap attached.** This is to prevent the lens from concentrating the sun's rays, which could cause a fire.

Handling Cautions

- **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.
- Do not leave the lens in excessive heat such as in a car in direct sunlight. **High temperatures can cause the lens to malfunction.**

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.

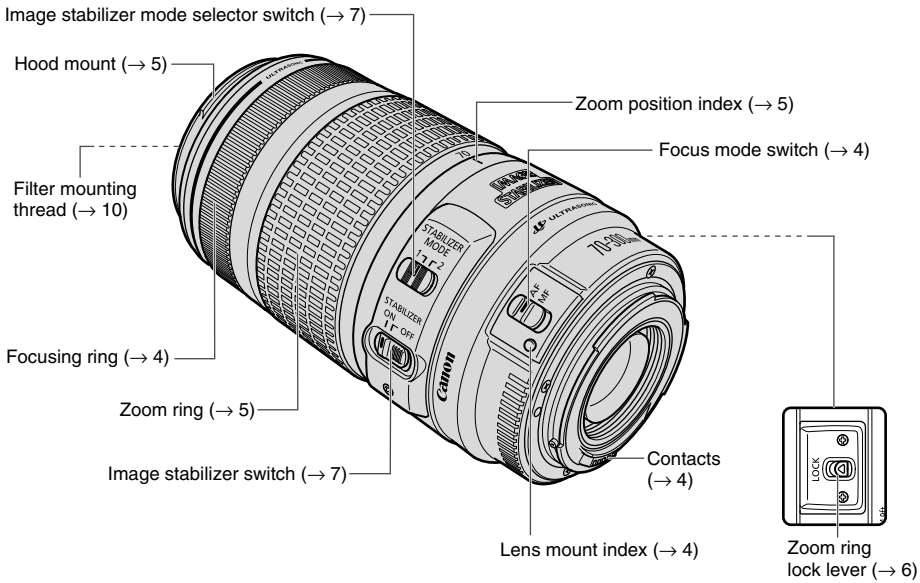
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

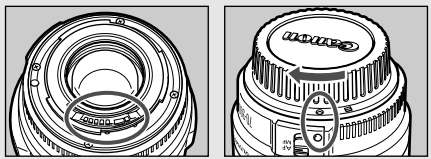
Nomenclature



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

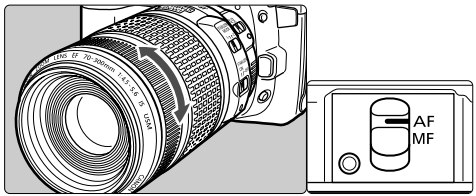
1. Mounting and Detaching the Lens

See your camera's instructions for details on mounting and detaching the lens.



- After detaching the lens, place the lens with the rear end up to prevent the lens surface and electrical contacts from getting scratched.
- If the contacts get soiled, scratched, or have fingerprints on them, corrosion or faulty connections can result. The camera and lens may not operate properly.
- If the contacts get soiled or have fingerprints on them, clean them with a soft cloth.
- If you remove the lens, cover it with the dust cap. To attach it properly, align the lens mount index and the ○ index of the dust cap as shown in the diagram, and turn clockwise. To remove it, reverse the order.

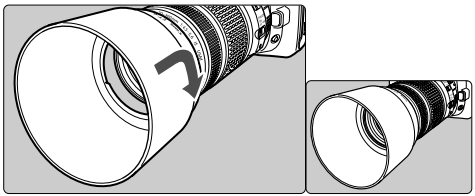
2. Setting the Focus Mode



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.

- Do not touch the rotating parts of the lens while autofocus is active.
- Do not adjust focus manually when the focus mode switch is set to AF.

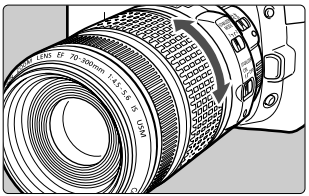
3. Hood (Sold separately)



The ET-65B hood can keep unwanted light out of the lens, and also protects the front of the lens from rain, snow, and dust.
Attach and align the hood to the hood mount on the front of the lens, and turn the hood as shown by the arrow to secure it.
The hood can be reverse-mounted on the lens for storage.

- The front end of the lens rotates, so hold it when attaching the hood.
- Part of the picture may be blocked if the hood is not attached properly.
- When attaching or detaching the hood, grasp the base of the hood to turn it. To prevent deformation, do not grasp the rim of the hood to turn it.

4. Zooming

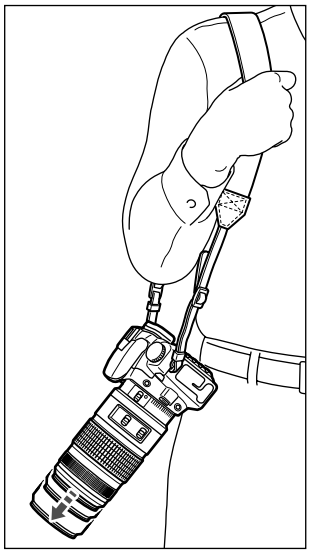


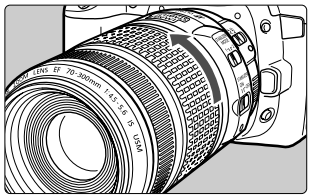
To zoom, turn the lens' zoom ring.

- Be sure to finish zooming before focusing. Changing the zoom ring after focusing can affect the focus.

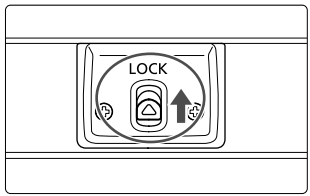
5. Fixing the Zoom Ring

The zoom ring can be fixed to keep the lens at the shortest point. This function is convenient for carrying a camera on a strap because it prevents the lens from extending.





1 Turn the zoom ring to the widest position (70mm).



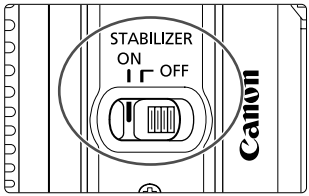
2 Slide the zoom ring lock lever in the direction indicated by the arrow.

- To release the zoom ring, slide the zoom ring lock lever in the direction opposite to the arrow.

The zoom ring can only be locked at maximum wide angle.

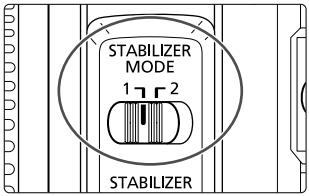
6. Image Stabilizer

You can use the image stabilizer in AF or MF mode.



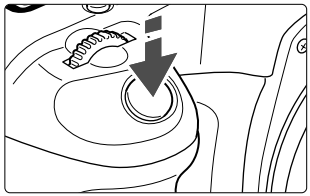
1 Set the STABILIZER switch to ON.

- If you are not going to use the image stabilizer function, set the switch to OFF.



2 Select the stabilizer mode.

- MODE 1: Corrects vibrations in all directions. It is mainly effective for shooting still subjects.
- MODE 2: It compensates for vertical camera shake during following shots in a horizontal direction, and compensates for horizontal camera shake during following shots in a vertical direction.



3 When you press the shutter button halfway, the Image Stabilizer will start operating.

- Make sure the image in the viewfinder is stable, then press the shutter button the rest of the way down to take the picture.

7. Tips on Using the Image Stabilizer

The image stabilizer in this lens is effective for hand-held shots under the following conditions.

● **MODE 1**

ON

OFF

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

● **MODE 2**

ON

OFF

- When panning subjects in motion.

Tips on Using the Image Stabilizer

- The Image Stabilizer cannot compensate for a blurred shot caused by a subject that moved.
- Set the STABILIZER switch to OFF when you are taking pictures using the Bulb setting (long exposures). If the STABILIZER switch is set to ON, the image stabilizer function may introduce errors.
- The Image Stabilizer might not be fully effective in the following cases:
  - You shoot while riding on a bumpy road.
  - You move the camera dramatically for a panning shot in Mode 1.
  - You shoot using techniques other than following shots in Mode 2.
- The Image Stabilizer consumes more power than normal shooting, so fewer shots can be taken if you use the function.
- The image stabilizer operates for about two seconds even when your finger is off the shutter button. Do not remove the lens while the stabilizer is in operation. This will cause a malfunction.

- With the EOS-1V/HS, 3, 30/33/Elan7/7E, 30V/33V/Elan7N/7NE, Elan II/Elan II E/50/50 E, 300/Rebel2000, IX, and D30, the Image Stabilizer will not work during self-timer operation.

- When you use a tripod, the Image Stabilizer should be turned off to save battery power.
- The stabilizer is equally effective for hand-held photography and photography with a monopod.
- The image stabilizer function also operates when the lens is used with an Extension Tube EF12 II or EF25 II.
- Pictures may look distorted after being taken depending on the camera, but this doesn't affect shooting.
- If you set the camera's Custom Function to change the assigned button to operate the AF, the Image Stabilizer will operate when you press the newly assigned AF button.

8. Filters (Sold separately)

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

- The front end of the lens rotates, so hold it when attaching the filter.
- Only one filter may be attached.
- If you need a polarizing filter, use the Canon Circular Polarizing Filter (58mm).
- To adjust the polarizing filter, first remove the lens hood.

9. Extension Tubes (Sold separately)

You can attach Extension Tube EF12 II or EF25 II for magnified shots. The shooting distance and magnification are shown below.

		Camera-to-Subject Distance (mm)		Magnification	
		Near	Far	Near	Far
EF12 II	70mm	584	638	0.22×	0.17×
	300mm	1361	7629	0.32×	0.04×
EF25 II	70mm	420	428	0.40×	0.38×
	300mm	1254	3890	0.39×	0.09×

Manual focusing is recommended for accurate focusing.

10. Close-up Lenses (Sold separately)

Attaching a 250D or 500D (58mm) Close-up Lens enables close-up photography.
The magnification will be as follows:

- Close-up Lens 250D:
  Can be used at the 70mm end (magnification 0.29x - 0.38x)
- Close-up Lens 500D:
  Can be used (magnification 0.14x - 0.90x)

Manual focusing is recommended for accurate focusing.

Specifications

Focal Length/Aperture	70-300 mm f/4-5.6
Lens Construction	10 groups, 15 elements
Minimum Aperture	f/32-45
Angle of View	Diagonal: 34° - 8° 15' Vertical: 19° 30' - 4° 35' Horizontal: 29° - 6° 50'
Min. Focusing Distance	1.5 m/4.9 ft.
Max. Magnification	0.26 × (at 300 mm)
Field of View	approx. 394 × 596 mm - 92 × 136 mm/15.5 × 23.5 inch - 3.6 × 5.4 inch (at 1.5 m)
Filter Diameter	58 mm/2.3 inch
Max. Diameter and Length	76.5 × 142.8 mm/3.0 × 5.6 inch
Weight	630 g/22.2 oz

Hood / Lens Cap / Case

Hood	ET-65B
Lens Cap	E-58U
Case	LP1222

- The lens length is measured from the mount surface to the front end of the lens. Add 21.5 mm when including the lens cap and dust cap.
- The size and weight listed are for the lens only, except as indicated.
- The EF1.4X II/EF2X II extenders cannot be used with this lens.
- Aperture settings are specified on the camera. The camera automatically compensates for variations in the aperture setting when the camera is zoomed in or out.
- All data listed is measured according to Canon standards.
- Product specifications and appearance are subject to change without notice.

Canon

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