# Canon EF LENS EF300mm f/4L IS USM





IMAGE STABILIZER

WULTRASONIC

# Thank you for purchasing a Canon product.

The Canon FF300mm f/4L IS USM lens is a high-performance telephoto zoom lens for EOS cameras, and it is 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 two 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. Ultrasonic motor (USM) for quick and quiet autofocusing.
- 4. Manual focusing is available after the subject comes into focus in autofocus mode (ONE SHOT AF).
- 5. The lens is compatible with Extender EF1.4X II and FF2X II.
- 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.
- Do not point the lens or camera at the sun or photograph it. This is because the lens concentrates the sun's ravs even when the sun is outside the image area or when shooting with backlight, which could cause malfunction or fire.
- · 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.

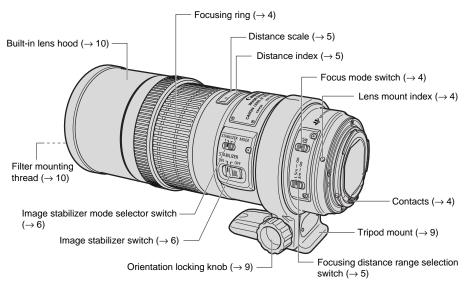
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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 ( $\rightarrow$  \*\*).

# 1. Mounting and Detaching the Lens

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

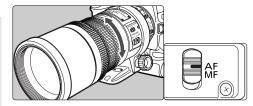






- After detaching the lens, place the lens with the rear end up to prevent the lens surface and electrical contacts from getting scratched.
- If the contacts get soiled, scratched, or have fingerprints on them, corrosion or faulty connections can result. The camera and lens may not operate properly.
- 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



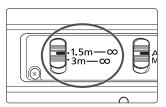
To shoot in autofocus (AF) mode, set the focus mode switch to AF.

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



After autofocusing in ONE SHOT AF mode, focus manually by pressing the shutter button halfway and turning the focusing ring. (Full-time manual focus)

# 3. Switching the Focusing **Distance Range**

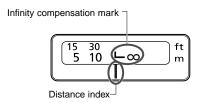


You can set the focusing distance range to 1.5 m/4.9 ft. to infinity or 3 m/9.8 ft. to infinity. By setting the suitable focusing distance range, the actual autofocusing time can be shorter.



If you autofocus outside the set focusing distance range, the lens may stop focusing at the start of the focusing range; however, this is not a malfunction. Press the shutter release button halfway again.

# 4. Infinity Compensation Mark



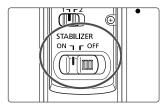
To compensate for shifting of the infinity focus point that results from changes in temperature. The infinity position at normal temperature is the point at which the vertical line of the L mark is aligned with the distance indicator on the distance scale.



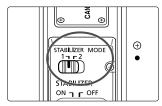
For accurate manual focusing on subjects at infinity distance, look through the viewfinder while rotating the focusing ring.

# 5. Image Stabilizer Settings

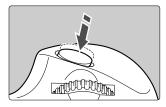
You can use the image stabilizer in AF or MF mode.



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



- 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.



- 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.

# 6. Tips on Using the Image Stabilizer

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

#### MODE 1



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.
- $\bullet$  In situations where your footing is uncertain.
- In situations where fast shutter settings cannot be used.

#### MODE 2



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 OFF when you are using a tripod. If the Stabilizer switch is set to ON, the image stabilizer function may introduce errors.
  - · 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, ELAN 7E/ELAN 7/30/33, ELAN 7NE/ELAN 7N/30V/33V. ELAN II/ELAN IIE/50/50E, REBEL 2000/300, IX, and D30, the Image Stabilizer will not work during self-timer operation.



- . When using a tripod, set the STABILIZER switch OFF to prevent errors.
- 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 the EF12 II or EF25 II Extension Tube, and the EF1.4X II Extender.
- . With Extender EF2X II attached to the lens, the Image Stabilizer will work with the following cameras: EOS-1Ds Mark III. EOS-1Ds Mark II. EOS-1Ds. EOS-1D Mark III, EOS-1D Mark II N, EOS-1D Mark II. EOS-1D. EOS 40D. 30D. 20D. 20Da. 10D. 5D, DIGITAL REBEL XSi/450D, DIGITAL REBEL XTi/400D DIGITAL, DIGITAL REBEL XT/350D DIGITAL, DIGITAL REBEL/300D DIGITAL, D60. D30, EOS DCS1, DCS3, D2000, D6000, EOS-1V/HS, EOS-1N/DP/HS/RS, 3, ELAN 7E/ELAN 7/30/33, ELAN 7NE/ELAN 7N/30V/33V, ELAN II/ELAN IIE/50/50E, REBEL X/REBEL XS/500, REBEL G/500N, REBEL 2000/300, REBEL Ti/300V, REBEL T2/300X, REBEL K2/3000V, IX, IX Lite/IX7, 3000/88, 5000/888
- 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.

# 7. Using the Tripod Mount

#### **Adjusting the Revolving Mount**

You can loosen the orientation lock-knob on the tripod mount to allow it to rotate as needed to fit a particular camera model for switching between vertical and horizontal positions.

#### Detaching

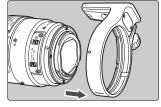
Use the following procedures to remove and attach the tripod mount.



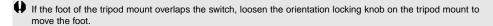
1 Loosen the orientation locking knob.



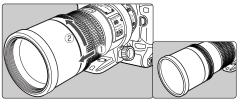
Rotate the tripod mount and align the mounting indicator on the tripod mount with the one on the lens.



Slide off the tripod collar away from the rear of the lens.



### 8. Hood



The built-in lens hood can reduce unwanted reflections and also protects the front of the lens from rain, snow, dust, and other substances. When using the hood, extend it outward from the end of the lens until it stops and then turn it in the direction of the arrow. For storage, reverse the procedure.

### 9. Filters (Sold separately)

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



- If you need a polarizing filter, use the Canon Circular Polarizing Filter (77mm).
  - To adjust the polarizing filter, first store the lens hood.

### 10. 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	1338	7795	0.30×	0.04×
EF25 II	1216	3946	0.37×	0.09×



Manual focusing is recommended for accurate focusing.

### 11. Close-up Lenses (Sold separately)

Attaching a 500D (77mm) Close-up Lens enables close-up photography. Magnification will be  $0.82 \times -0.59 \times$ .



- Close-up Lens 250D cannot be attached because there is no size that fits the lens.
  - · Manual focusing is recommended for accurate focusing.

### 12. Extenders (Sold separately)

With Extender EF1.4X II or EF2X II attached, the lens specifications will change as follows:

Item		With EF1.4X II Extender	With EF2X II Extender
Focal length (mm)		420	600
Aperture		f/5.6 - f/45	f/8 - f/64
Angle of view	Diagonal	6°10'	4°10'
	Vertical	3°20'	2°20'
	Horizontal	5°	3°30'
Maximum magnification (×)		0.33	0.47



- First attach the Extender to the lens, then attach the lens to the camera. Detach it from the camera in the reverse order. If you attach the lens to the camera first, misoperation may occur.
- With Extender EF2X II attached to the lens, only manual focus is possible. However, with the EOS-1Ds Mark III, EOS-1Ds Mark II, EOS-1D Mark II, EOS-1D Mark II, EOS-1D Mark II, EOS-1D, EOS-1V/HS, EOS-3 camera, autofocusing with the center focusing point is possible.
- Only one Extender can be attached to the lens and camera.
- If you use an Extender on the lens mounted on a EOS A2/A2E/5, set the exposure compensation to -1/2 stop for the EF1.4X II or -1 stop for the EF2X II.



- Autofocusing is still enabled with Extender EF1.4X II attached.
- When an Extender is attached, the AF speed will become slower by design to retain proper AF control.

### **Specifications**

Focal Length & Max. Aperture	300 mm, f/4		
Lens Construction	15 elements in 11 groups		
Min. Aperture	f/32		
Angle of View	Diagonal: 8°15' Vertical: 4°35' Horizontal: 6°50'		
Min. Focusing Distance	1.5 m / 4.9 ft.		
Max. Magnification & Field of view	0.24 × , 101 × 150 mm / 4.0 × 5.9 inch (at 1.5 m)		
Filter Diameter	77 mm		
Max. Diameter & Length	90 × 221 mm / 3.5 × 8.7 inch		
Weight	1190 g / 42.0 oz		
Lens Hood	Built-in		
Lens Cap	E-77U/E-77 II		
Case	LZ1128		

- The lens length is measured from the mount surface to the front end of the lens. Add 21.5 mm to include the E-77U lens cap and dust cap, and 24.2 mm for the E-77 II.
- The size and weight listed are for the lens only, except as indicated.
- Aperture settings are specified on the camera.
- · All data listed is measured according to Canon standards.
- · Product specifications and appearance are subject to change without notice.

### Canon