

# Canon EF LENS

EF135mm F2L USM

EF200mm F2.8L II USM

EF300mm F4L USM

EF400mm F5.6L USM

Instruction



## Thank you for purchasing a Canon product.

Developed for EOS cameras, the Canon EF 135mm f/2L USM, EF 200mm f/2.8L II USM, EF 300mm f/4L USM, and EF 400mm f/5.6L USM lenses feature built-in ultrasonic motors.

The USM enables quick and quiet autofocus. This is especially advantageous for sports photography when quick focusing is required and for stage performances when quietness is essential. The "L" designation indicates the use of top-notch lens glass to obtain superior delineation, resolution, and contrast.



: Safety precautions and warnings to prevent malfunction.



: Things to know

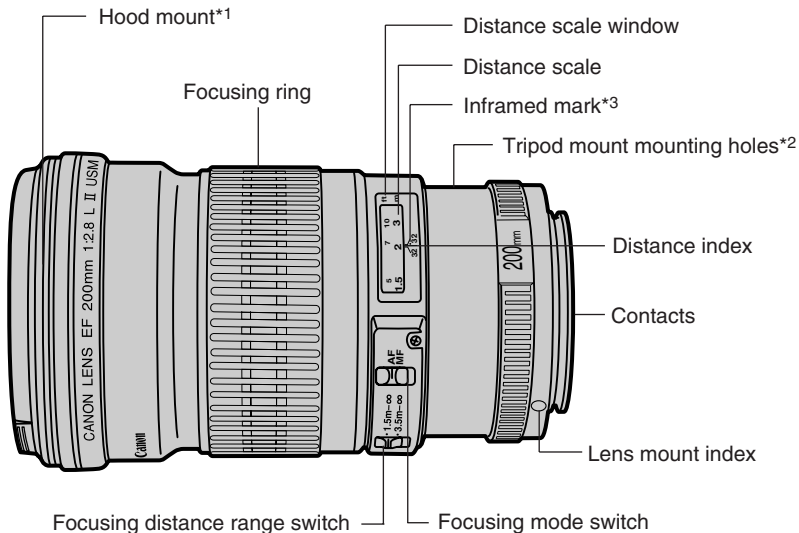
### Safety Precautions

1. **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.
2. **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

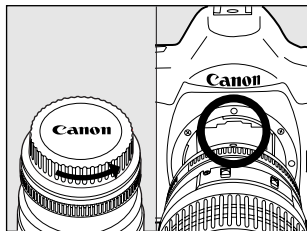
**If the lens is taken from a cold environment into a warm one, condensation may develop on the lens surface and internal parts.** To prevent condensation in this case, first put the lens into an airtight plastic bag before taking it from a cold to warm environment. Then take out the lens after it has warmed gradually. Do the same when taking the lens from a warm environment into a cold one.

## Nomenclature



\*1) EF135mm f/2L USM • EF200mm f/2.8L II USM

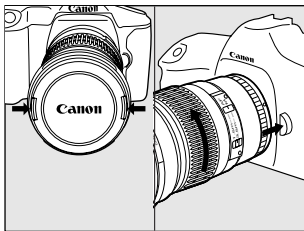
\*2,3) EF200mm f/2.8L II USM • EF300mm f/4L USM • EF400mm f/5.6L USM



## 1. Attaching and Detaching the Lens

### Attaching the lens to the camera

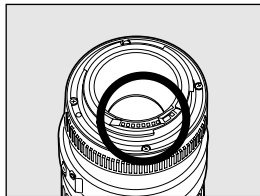
- 1** Remove the lens dust cap by turning it counterclockwise.
- 2** Align the lens mount index with the red mark on the camera. Then turn the lens clockwise until it locks in place.



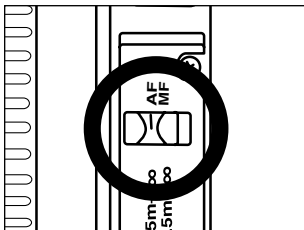
- 3** Remove the lens cap by pressing the clasps.

### Detaching the lens

Hold down the lens release button on the camera and turn the lens counterclockwise until it detaches.

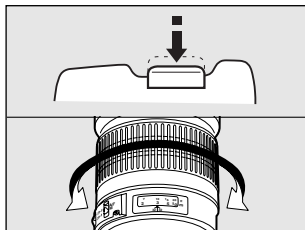


- After detaching the lens, attach the dust cap to the rear of the lens to prevent the contacts and lens from getting scratched.
- If the contacts are dirty, scratched, or soiled with fingerprints, etc., corrosion or a faulty connection or operation may result.
- If the lens is dirty, it may not autofocus properly.



## 2. Setting the Focus Mode

To set the AF mode, set the focus mode switch to AF. To disable the autofocus mode and focus manually, set the focus mode switch to MF and turn the focusing ring.



## 3. Manual touch-up focusing

This lens enables manual focusing even in the autofocus mode. With the camera set to the One-Shot AF mode, manual focusing is possible after the lens autofocuses (and stops) while the shutter button is pressed halfway.



## 4. Switching the Focusing Distance Range

The focusing distance range can be selected with the focusing limiter switch.

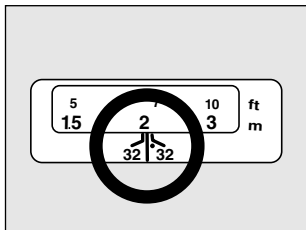
- EF 135 mm f/2L USM: 0.9 m - infinity or 1.6 m - infinity
- EF 200 mm f/2.8L II USM: 1.5 m - infinity or 3.5 m - infinity
- EF 300 mm f/4L USM: 2.5 m - infinity or 6 m - infinity
- EF 400 mm f/5.6L USM: 3.5 m - infinity or 8.5 m - infinity

**The following applies to the EF 135 mm f/2L USM, EF 200 mm f/2.8L II USM, and EF 400 mm f/5.6L USM lenses:**

- Before switching the focusing range, turn the focusing ring to select a focusing distance somewhere within the desired range.
- If you do not set the lens to a focusing distance that is within the selected focusing range, autofocus may stop when it reaches the range boundary. This is not a fault. If it happens, press the shutter button halfway down again.

**The following applies to the EF 200 mm f/2.8L II USM, EF 300 mm f/4L USM, and EF 400 mm f/5.6L USM lenses:**

- If the tripod mount covers the focusing limiter switch, it may be difficult to operate the switch. In such a case, loosen the tripod mount's lock nut and turn the camera so that the switch is clear.



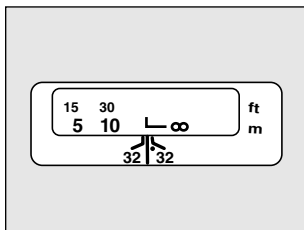
## 5. Depth-of-Field Preview

The depth of field is the zone of acceptable focus in front of and behind the point of optimum focus.

EOS cameras equipped with the depth-of-field preview feature allow you to see this zone of sharp focus in the viewfinder. The depth-of-field scale is an approximate guide.

## 6. Setting the Aperture

The lens aperture is set with the camera.



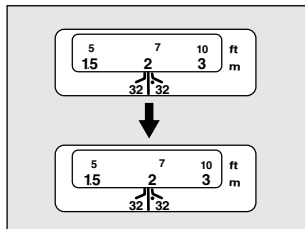
## 7. Infinity Compensation Mark

The distance scale can be turned in excess to correct the point of infinity focus which shifts depending on the temperature.

At 20°C, the point of infinity focus is achieved when the

distance scale is aligned with the top of the letter "L."

To ensure accurate focus, look through the viewfinder and check the focus.



## 8. Infrared Mark

(EF 200 mm f2.8L II USM ·  
EF 300 mm f4L USM ·  
EF 400 mm f5.6L USM)

The infrared mark is used when black-and-white infrared film is used. After achieving focus, shift the current distance setting at the distance index to the

infrared mark to compensate for the focusing difference. Also use an infrared filter on the lens.



- When compensating for the focusing difference, set the focus mode switch to MF and use the focusing ring.
- The position of the infrared mark is based on a wavelength of 800 nm. The proper position of the infrared mark may differ slightly depending on the infrared film used. Taking several shots and shifting the distance setting to a slightly different position each time is recommended.
- Also read the instructions that came with the infrared film.
- Infrared film cannot be used with certain EOS camera models. Read the camera's instructions.

## 9. Tripod Mount

(for EF 200mm f/2.8L II USM, EF 300mm f/4L USM,  
and EF 400mm f/5.6L USM lenses)

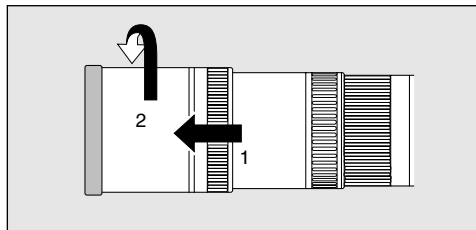
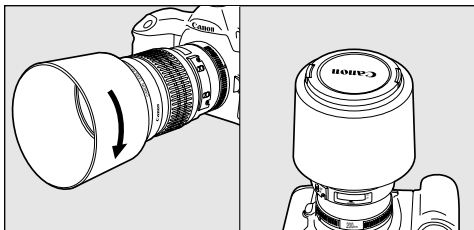
The EF 300mm f/4L USM lens and EF 400mm f/5.6L USM lens come with a tripod mount. When the camera is attached with either lens and it is to be mounted on a tripod, use the lens' tripod mount instead of the camera body's tripod socket.

If using the EF 200mm f/2.8L II USM lens with an extender or extension tube, use a ring-type tripod mount A (B) (sold separately) to mount it on a tripod.

Using the lens' tripod mount gives better balance and stability on a tripod. By loosening the tripod mount's lock nut, the camera can be revolved for vertical or horizontal picture composition.

Be sure to tighten the tripod mount before removing the camera when using a tripod.





## 10. Hood

The hood guards the front part of the lens against rain, snow, dust and stray light which may cause flare and ghost images.

Attaching the hood

On the EF 135mm f/2L USM and EF 200mm f/2.8L II USM lenses (bayonet type)

- Align the hood's bayonet flange with the bayonet flange on the front of the lens, then turn the hood in the direction of the arrow. The hood can also be attached in reverse before the lens is stored in a case.

EF 300mm f/4L USM, and EF 400mm f/5.6L USM lenses (pull-out type)

- Pull out the hood all the way, then turn it in the direction of the arrow.

## 11. Filters

(sold separately)

A filter can be attached by screwing it on the front of the lens.

When a circular polarizing filter is required, use Canon's polarizing filter PL-C. The polarizing filter cannot be rotated unless the hood is detached or retracted first.

## 12. Extenders

Separately-sold Canon Extenders EF 1.4 $\times$  II and EF 2 $\times$  II can be attached to any of the four lenses. The extenders increase the lens' focal length by 1.4 $\times$  and 2 $\times$  respectively, and the maximum aperture respectively decreases by 1 stop and 2 stops. The autofocusing speed also decreases to maintain proper AF control.



- When Extender EF 1.4 $\times$  II or EF 2 $\times$  II is attached to the EF 400 mm f/5.6L USM lens, the lens switches automatically to manual focus. Also, when Extender EF 2 $\times$  II is attached to the EF 300 mm f/4L USM lens, the lens switches automatically to manual focus.

Lens	Angle of View			Groups/ Elements	Minimum Aperture	Closest Focusing Distance		Magnification	Filter Size/Usable Number (mm)
	Diagonal	Vertical	Horizontal						
EF 135 mm F2L USM	18°	10°	15°	8 - 10	32	0.9 m	2.95 ft.	0.19	72 <2>
EF 200 mm F2.8L II USM	12°	7°	10°	7 - 9	32	1.5 m	4.92 ft.	0.16	72 <2>
EF 300 mm F4L USM	8°15'	4°35'	6°50'	7 - 8	32	2.5 m	8.25 ft.	0.13	77 <2>
EF 400 mm F5.6L USM	6°10'	3°30'	5°10'	6 - 7	32	3.5 m	11.48 ft.	0.12	77 <2>

Lens	Hood	Diameter×Length mm (inch)	Weight g (oz)	Case
EF 135 mm F2L USM	ET-78 II	82.5×112 (3.2×4.4)	750 (26.3)	LP1219
EF 200 mm F2.8L II USM	ET-83B II	83.2×136.2 (3.3×5.4)	765 (26.8)	LP1222
EF 300 mm F4L USM	Built-in	90×213.5 (3.5×8.4)	1165 (40.8)	LZ1128
EF 400 mm F5.6L USM	Built-in	90×256.5 (3.5×10.1)	1250 (43.8)	LZ1132

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.

- \* The lens length is measured from the front end to the mounting end. With the front and rear lens caps attached, add 21.5 mm.
- \* The dimensions and weight exclude any attachments.
- \* Specifications are subject to change without notice.

"This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry Canada."

 **N118**



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