

Canon EF LENS

EF24-105mm F4L IS USM

Instruction



IMAGE STABILIZER
ULTRASONIC

Thank you for purchasing a Canon USM lens.

The Canon EF24-105mm f/4L IS USM lens is a high-performance standard zoom lens developed for EOS cameras. It is equipped with an Image Stabilizer, and covers a wide range of focal lengths from wide angle to mid-telephoto. It is equipped with an Image Stabilizer effective for hand-held shooting at slow shutter speeds.

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

Features

1. Aspheric and super UD lens elements for excellent imaging performance.
2. The Image Stabilizer gives the equivalent effect of a shutter speed three stops faster.
3. USM for fast, quiet focusing.
4. Great close-ups at 0.45 m/1.5 ft at all focal lengths.
5. Manual focusing available in autofocus mode (ONE SHOT AF).
6. A truly round aperture hole results in a nicer background blur.
7. Tight seal structure ensures excellent dust-proof and drip-proof performance.

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



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.

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:

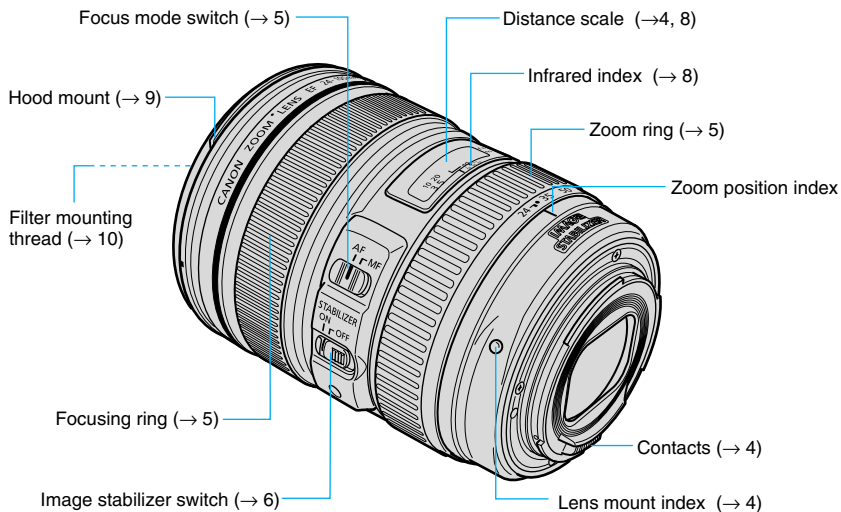
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

This 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.



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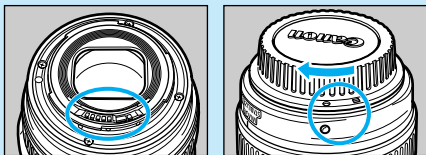
Nomenclature




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.

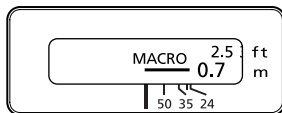


- After detaching the lens, place the lens with the rear end up to prevent the lens surface and electrical contacts from getting scratched.
- If the contacts get soiled, scratched, or have fingerprints on them, corrosion or faulty connections can result. The camera and lens may not operate properly.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



The lens mount has a rubber ring for enhanced water- and dust-resistance. The rubber ring may cause slight abrasions around the camera's lens mount, but this will not cause any problems. If the rubber ring becomes worn, it is replaceable by a Canon Service Center at cost.

2. Close-up Photography (Macro Photography)

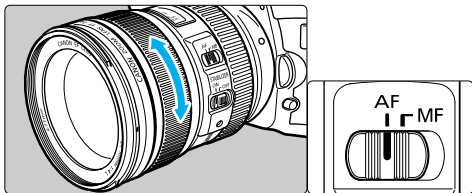


The lens can focus as close as 0.45 m/1.5 ft for close-ups (macro photography).



To focus at 0.45 m/1.5 ft, set the lens focus mode switch to MF. Look through the viewfinder and move your body forward or back to focus. Take the shot when the subject is in focus.

3. Setting the Focus Mode



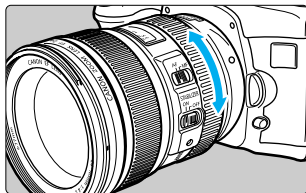
To shoot in autofocus mode, set the focus mode switch to AF.

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

4. Zooming



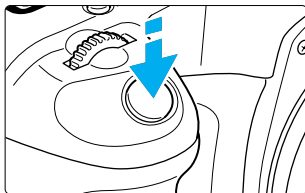
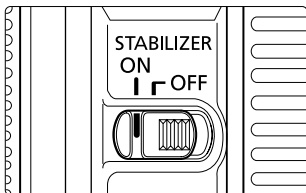
To zoom, turn the lens' zoom ring.



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

5. 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 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.



ON



OFF

The image stabilizer is particularly effective for hand-held shots in the following conditions.

- Dimly lit scenes, such as at dusk or indoors
- Locations such as art galleries or theater stages where flash photography is forbidden
- Situations in which your footing is uncertain

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 move the camera for a panned shot.
 - You shoot while riding on a bumpy road.
- Compared to using a normal non-IS lens, fewer shots can be taken when you use an Image Stabilizer lens because more power is consumed.
- 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.

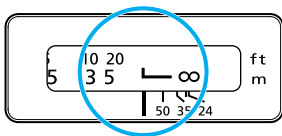


- With the EOS-1V/HS, 3, 30/33/Elan7/7E, 30V/33V/Elan7N/7NE, Elan II/Elan II E/50/50 E, 300/Rebel2000, IX, and D30, the Image Stabilizer will not work during self-timer operation.




- 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.
- 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.

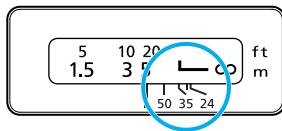
6. Infinity Distance Mark




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.

7. Infrared Index



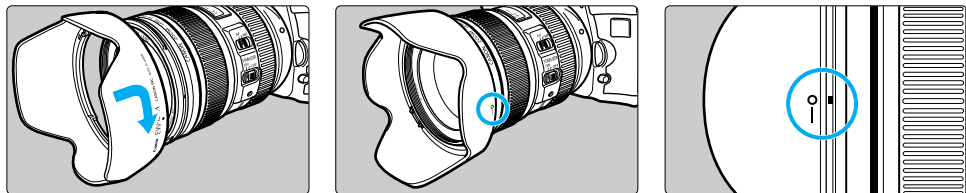
The infrared index corrects the focus setting when using monochrome infrared film. Focus on the subject manually, then adjust the distance setting by moving the focusing ring to the corresponding infrared index mark.

 Some EOS cameras cannot use infrared film. See the instructions for your EOS camera.

- 
- The infrared index position is based on a wavelength of 800 nm.
 - Be sure to observe the manufacturer's instructions when using infrared film.
 - Use a red filter also when you take the picture.

8. Hood

The EW-83H hood can keep unwanted light out of the lens, and also protects the lens from rain, snow, and dust.



To attach the hood, align the hood's attachment position mark with the red dot on the front of the lens, then turn the hood clockwise until the lens's red dot is aligned with the hood's stop position mark.

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



- 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.

9. 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 Canon's PL-C 77mm II polarizing filter.
- To adjust the polarizing filter, first remove the lens hood.
- When the PL-C 77mm II polarizing filter is attached, the lens cap cannot be attached.

10. Gelatin Filter Holder (Sold separately)

With the Gelatin Filter Holder, you can use filters to create various effects.

The Gelatin Filter Holder compatibility is shown below.

- Gelatin Filter Holder III:
Incompatible
- Gelatin Filter Holder IV:
Compatible (lens hood cannot be used)

11. Extension Tubes (Sold separately)

With Extension Tube EF 12 II or EF 25 II, the camera-to-subject distance and image magnification will be as follows:

		Camera-to-Subject Distance (mm)		Magnification	
		Near	Far	Near	Far
EF12 II	24mm	177	187	0.60×	0.50×
	105mm	326	1022	0.40×	0.12×
EF25 II	24mm	Incompatible		Incompatible	
	105mm	280	574	0.61×	0.27×



When an Extension Tube is attached, focus manually.

12. Close-up Lenses (Sold separately)

Attaching a 500 or 500D (77mm) Close-up Lens enables close-up photography.

The magnification will be as follows:

	Magnification
24mm	0.05× – 0.11×
105mm	0.02× – 0.34×



- Sales of the 500 Close-up Lens may already be terminated in some areas.
- Close-up Lens 250D cannot be attached because there is no size that fits the lens.
- When using a Close-up Lens, focus manually.

Specifications

Image Size	24 × 36 mm
Focal Length/Aperture	24-105 mm f/4
Lens Construction	13 groups, 18 elements
Minimum Aperture	f/22
Angle of View	Diagonal: 84° - 23° 20' Vertical: 53° - 13° Horizontal: 74° - 19° 20'
Min. Focusing Distance	0.45 m/1.5 ft.
Max. Magnification	0.23 × (at 105 mm)
Field of View	approx. 345 × 535 mm - 106 × 158 mm/13.6 × 21.1 inch - 4.2 × 6.2 inch (at 0.45 m)
Filter Diameter	77 mm/3.0 inch
Max. Diameter and Length	83.5 × 107 mm/3.3 × 4.2 inch
Weight	670 g/23.6 oz
Hood	EW-83H
Lens Cap	E-77U
Case	LP1219

- 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.
- Aperture settings are specified on the camera.
- The EF1.4X II/EF2X II extenders cannot be used with this lens.
- All data listed is measured according to Canon standards.
- Product specifications and appearance are subject to change without notice.



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