

# Canon EFS LENS

# EF-S10-22mm f/3.5-4.5 USM



# Thank you for purchasing a Canon product.

The Canon EF-S10-22mm f/3.5-4.5 USM lens is a compact and lightweight, ultra-wide angle lens with high-performance optics. It has been developed for use with EOS cameras\* compatible with EF-S lenses.

\* As of February 2010, only the EOS 7D, EOS 50D, EOS 40D, EOS 30D, EOS 20D, EOS 20Da, EOS REBEL T2i/550D, EOS REBEL T1i/500D, EOS REBEL XSi/450D, EOS REBEL XS/1000D, EOS DIGITAL REBEL XTi/400D DIGITAL, EOS DIGITAL REBEL XT/350D DIGITAL, and EOS DIGITAL REBEL/300D DIGITAL are compatible with EF-S lenses.

- “USM” stands for Ultrasonic Motor.

## Features

1. An aspheric lens element and super UD lens element afford excellent image delineation and ultra-wide zoom.
2. Ultrasonic motor (USM) for quick and quiet autofocusing.
3. Manual focusing is available after the subject comes into focus in autofocus mode (ONE SHOT AF).
4. A truly round aperture hole results in a nicer background blur.

## 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**

- **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.

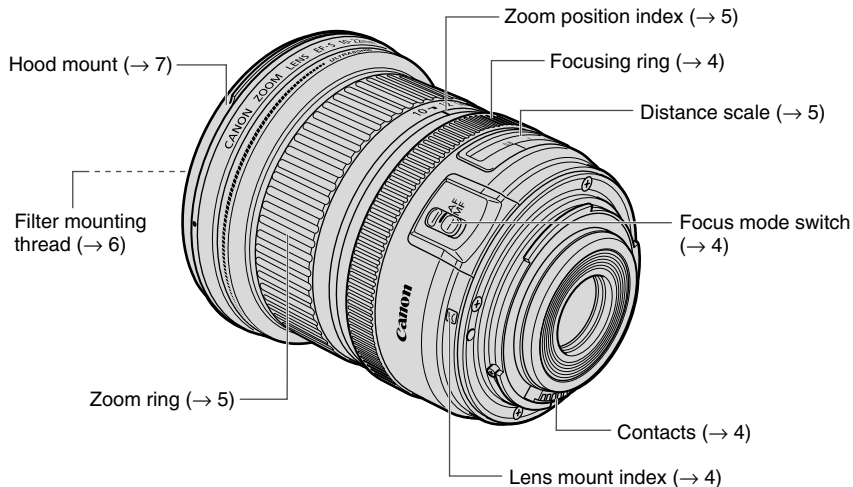
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one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

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

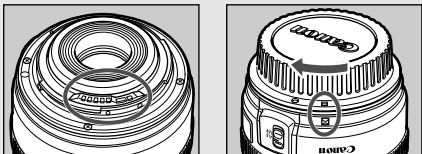
# Nomenclature



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

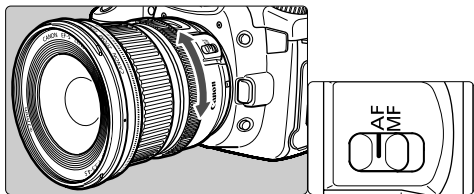
## 1 Mounting and Detaching the Lens

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



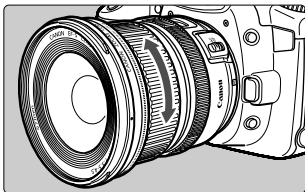
To shoot in autofocus (AF) mode, set the focus mode switch to AF.

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

## 3 Zooming

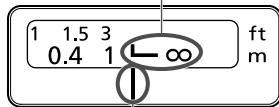


To zoom, turn the lens' zoom ring.

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

## 4 Infinity Compensation Mark

Infinity compensation mark



Distance index

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 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 the Canon Circular Polarizing Filter (77mm).

## 6 Extension Tubes (Sold Separately)

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

		Camera-to-Subject Distance (mm)		Magnification	
		Near	Far	Near	Far
EF12 II	10mm	Incompatible			
	22mm	155	165	0.77×	0.58×



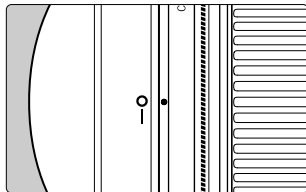
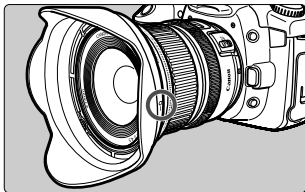
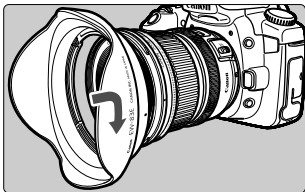
Although Extension Tube EF25 II can be attached, it is not recommended because the lens-to-subject distance will be very short.



Manual focusing is recommended for accurate focusing.

## 7 Hood (Sold Separately)

The EW-83E 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 as shown by the arrow until the lens' 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.



## **8** Close-up Lenses (Sold separately)

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

Magnification will be 0.20× – 0.02×.



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

## 9 Specifications

<b>Focal Length/Aperture</b>	10 – 22 mm f/3.5 – 4.5
<b>Lens Construction</b>	10 groups, 13 elements
<b>Minimum Aperture</b>	f/22 – 29*
<b>Angle of View</b>	Diagonal: 107° 30' – 63° 30'    Vertical: 74° 10' – 37° 50' Horizontal: 97° 10' – 54° 30'
<b>Min. Focusing Distance</b>	0.24 m/0.8 ft.
<b>Max. Magnification</b>	0.17 × (at 22 mm)
<b>Field of View</b>	approx. 189 × 291 – 92 × 138 mm/7.4 × 11.5 – 3.6 × 5.4 inch (at 0.24 m)
<b>Filter Diameter</b>	77 mm/3.0 inch
<b>Max. Diameter and Length</b>	83.5 × 89.8 mm/3.3 × 3.5 inch
<b>Weight</b>	385 g/13.6 oz
<b>Hood</b>	EW-83E (Sold separately)
<b>Lens Cap</b>	E-77U
<b>Case</b>	LP1319 (Sold separately)

\* Applies to 1/3-stop increments. With 1/2-stop increments, it will be f/22-27.

- Equivalent to 16-35 mm in the 35mm film format.
- 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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