Canon EFS LENS

# EF-S18-135mm f/3.5-5.6 IS USM




IMAGE STABILIZER
ULTRASONIC

ENG
Instructions

## Thank you for purchasing a Canon product.

**The Canon EF-S18-135mm f/3.5-5.6 IS USM is a standard zoom lens for EOS cameras* that support EF-S lenses.**

* Only the following EOS cameras are compatible with EF-S lenses (as of February 2016):
  EOS 7D Mark II, EOS 7D, EOS 80D, EOS 70D, EOS 60D, EOS 60Da, EOS 50D, EOS 40D, EOS 30D, EOS 20D, EOS 20Da, EOS REBEL T6S/760D, EOS REBEL T6i/750D, EOS REBEL T5i/700D, EOS REBEL SL1/100D, EOS REBEL T4i/650D, EOS REBEL T3i/600D, EOS REBEL T2i/550D, EOS REBEL T1i/500D, EOS REBEL XSi/450D, EOS REBEL T5/1200D, EOS REBEL T3/1100D, EOS REBEL XS/1000D, EOS DIGITAL REBEL XTi/400D DIGITAL, EOS DIGITAL REBEL XT/350D DIGITAL, EOS DIGITAL REBEL/300D DIGITAL
  EOS M10, EOS M3, EOS M2*1 and EOS M when used together with Mount Adapter EF-EOS M

*1: Not available in certain countries and regions.

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

### Camera Firmware

- When using this lens, please check the Canon website for the latest camera firmware. If the camera's firmware is not the latest version, be sure to update to the latest firmware.
- For details on updating firmware, please check the Canon website.

**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

Precautions to ensure that the camera is used safely. Read these precautions thoroughly. Make sure all details are observed in order to prevent risks and injury to the user and other people.

**⚠ Warning** Details pertaining to risks that may result in death or serious injury.

- **Do not look at the sun or a bright light source through the lens or single-lens reflex 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.

**⚠ Caution** Details pertaining to risks that may result in injury.

- **Do not leave the camera in locations subject to high or low temperatures.** This may result in the camera becoming excessively hot or cold, which may cause burns or other injuries when touched.
- **Do not insert your fingers inside the camera.** Failure to observe this may result in injury.

**Caution** Details pertaining to risks that may result in damage to property.

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

# General Precautions

## Handling Precautions

- Make sure that the power zoom control contacts (see p.6) are kept free of soiling, scratches, fingerprints, etc. Failure to observe this may result in faulty contacts or corrosion, which may lead to the power zoom adapter (see p.13) malfunctioning. Clean the contact points with a soft cloth in the event of soiling or fingerprints, etc., adhering.
- 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.
- Please also read any lens related handling precautions listed in your camera's instruction manual.

# Shooting Precautions

This lens uses nano-USM as the drive unit for the focus lens (the lens that aligns the focus). The motor also controls the focus lens during zooming.

### 1. When the camera is OFF

The motor does not operate while the camera is OFF or when the camera is OFF due to the use of the auto power off function. Therefore, users must be aware of the following points.

- Manual focus adjustments are not possible.
- During zooming, delayed focus will occur.

### 2. When the lens is in sleep mode

If not operated for a certain period of time, this lens will enter sleep mode in order to save power. Sleep mode differs from when the camera is OFF due to the use of the auto power off function.
In this state, the motor will not operate even if the camera is ON. Therefore, users must be aware of the following points.

- Manual focus adjustments are not possible.
- During zooming, delayed focus will occur.
- To exit sleep mode, press the shutter button halfway.

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.

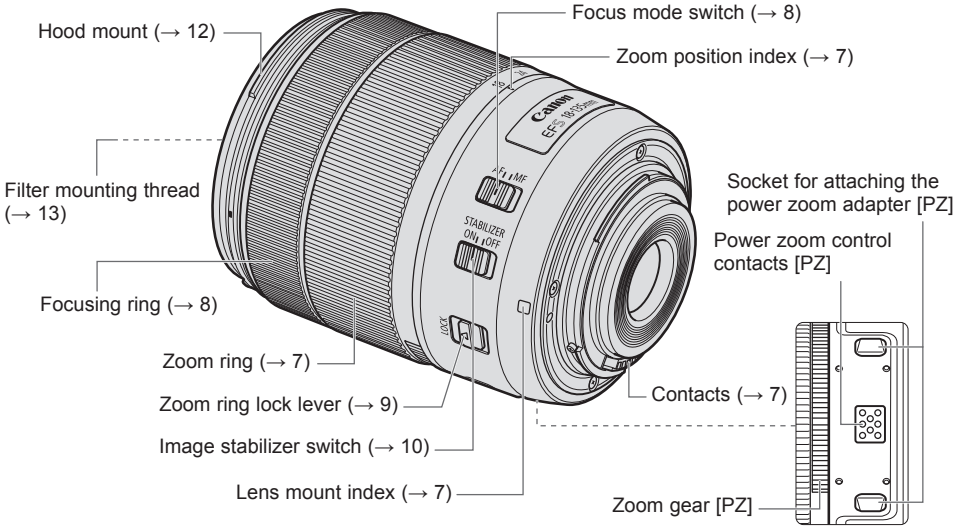
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate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

CAN ICES-3 (B) / NMB-3 (B)

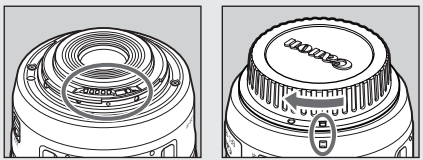
# Nomenclature




- For detailed information, reference page numbers are provided in parentheses (→ **).
- The term [PZ] indicates the locations related to the power zoom adapter (see p.13) attachment.

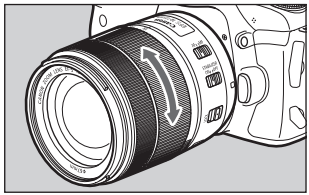
# 1 Mounting and Detaching the Lens

**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 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.
- Attach the lens cap and dust cap when disconnecting the lens. When attaching the dust cap, align the lens mount index with the ☐ index of the dust cap and rotate in a clockwise direction as shown in the illustration. Follow the reverse procedure to detach it.

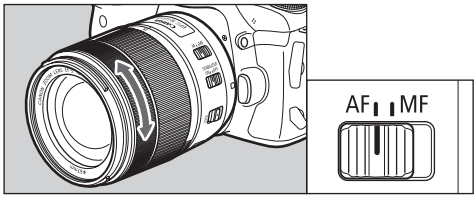
# 2 Zooming



To zoom, turn the lens' zoom ring.

- Be sure to finish zooming before focusing. Zooming after focusing can affect the focus.
- Blurring may temporarily occur if the zoom ring is quickly rotated.
- Zooming when the camera is OFF will result in delayed focus.
- Zooming during still image exposure will result in delayed focus. This causes any streaks of light that are captured during exposure to be blurred.

# 3 Setting the Focus Mode



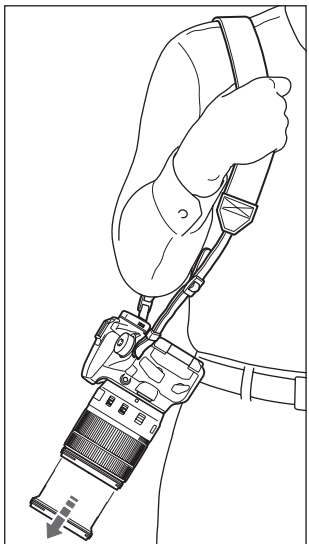

To shoot in autofocus (AF) mode, set the focus mode switch to AF.
To use only manual focusing (MF), set the focus mode switch to MF, and focus by turning the focusing ring.

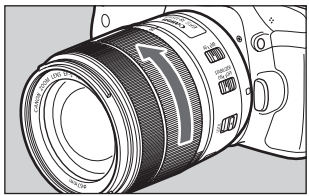
After autofocusing in ONE SHOT AF mode, focus manually by pressing the shutter button halfway and turning the focusing ring. (Full-time manual focus)

- Quickly rotating the focusing ring may result in delayed focus.
- Manual focus adjustments are not possible when the camera is OFF.

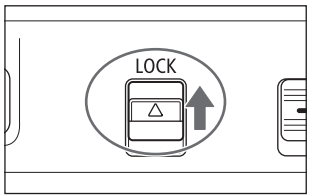
# 4 Fixing the Zoom Ring

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** Rotate the zoom ring to the widest position (18 mm).



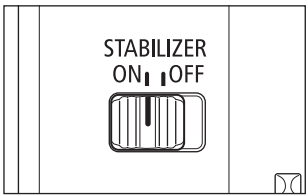

**2** Slide the zoom ring lock lever in the direction indicated by the arrow.

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

The zoom ring cannot be fixed in place at any position other than the widest position.

# 5 Image Stabilizer

You can use the image stabilizer in AF or MF mode.
This function provides optimal image stabilization depending on shooting conditions (such as shooting still subjects and following shots).




**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.

- The Image Stabilizer cannot compensate for a blurred shot caused by a subject that moved.
- The Image Stabilizer may not be fully effective if you shoot from a violently shaking vehicle or other transportation.
- The Image Stabilizer consumes more power than normal shooting, resulting in fewer shots and a shorter movie shooting time.

- When shooting a still subject, it compensates for camera shake in all directions.
- 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 use a tripod, the Image Stabilizer should be turned off to save battery power.
- Even with a monopod, the Image Stabilizer will be as effective as during hand-held shooting. However, depending on the shooting conditions, there are cases in which the Image Stabilizer effect may be less effective.
- The image stabilizer function also operates when the lens is used with an Extension Tube EF12 II or EF25 II.
- The Image Stabilizer will operate even when you press the button assigned to the AF function with the camera's Custom Functions.

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




**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.



**ON** **OFF**

- When panning subjects in motion.

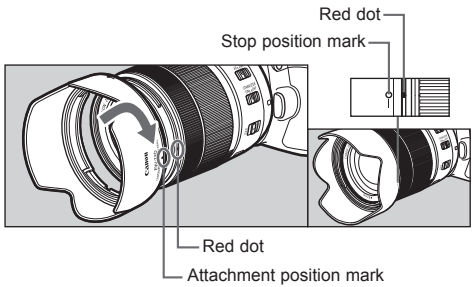
## ■ Dynamic IS Function

The EF-S18-135mm f/3.5-5.6 IS USM is equipped with dynamic IS, effective when shooting while walking since it expands the IS range.

- Achieves effective IS at the wide end.
- Automatically activates when the camera is set to Movie Shooting.

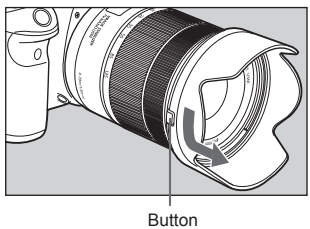
# 6 Hood (sold separately)

The EW-73D hood cuts out unwanted light and protects the front of the lens from rain, snow, and dust.




**● Attaching**

Align the red attachment position mark on the hood with the red dot on the front of the lens, and then rotate the hood in the direction of the arrow until it is firmly attached with the red dot and stop position mark on the hood aligned.




**● Removing**

Keep your finger pressed down on the button located on the side of the hood, and then rotate the hood in the direction of the arrow until the attachment position mark on the hood is aligned with the red dot on the front of the lens to detach it. The hood can be reverse-mounted on the lens for storage.

- If the hood is not attached properly, vignetting (darkening of the perimeter of the picture) may occur.
- Grasp and rotate the base of the hood when attaching and detaching it. There are cases in which it may become deformed if the hood is rotated with it grasped near to the rim.

# 7 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 PL-C B (67 mm).
- Detach the hood when adjusting the polarizing filter.

# 8 Extension Tubes (sold separately)

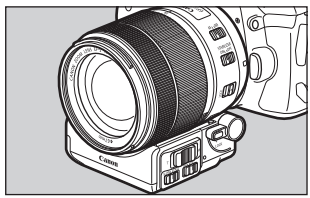
You can attach extension tube EF12 II or EF25 II for magnified shots. The shooting distance and magnification are shown below.

| | | Focusing Distance Range (mm) | | Magnification (×) | |
|---|---|---|---|---|---|
| | | Close distance | Long distance | Close distance | Long distance |
| EF12 II | 18mm | Incompatible | | | |
| | 135mm | 300 | 1568 | 0.43 | 0.09 |
| EF25 II | 18mm | Incompatible | | | |
| | 135mm | 258 | 822 | 0.61 | 0.21 |

MF mode is recommended for accurate focusing.

# 9 POWER ZOOM ADAPTER (sold separately)

The POWER ZOOM ADAPTER PZ-E1 can be attached to this lens in order to perform motorized zooming. Refer to the PZ-E1 instruction manual for details on use.



When using the power zoom, the usable focal length of the lens is limited. The focal length range within which the power zoom can operate is listed below (there are times when, depending on usage conditions, the power zoom will stop operating if the usable focal length listed is exceeded).

| | |
|---|---|
| When using the PZ-E1 | 19 mm - 132 mm |

# Specifications

| | |
|---|---|
| **Focal Length/Aperture** | 18-135mm f/3.5-5.6 |
| **Lens Construction** | 12 groups, 16 elements |
| **Minimum Aperture** | f/22-36* |
| **Angle of View** | Diagonal: 74°20′ - 11°30′, Vertical: 45°30′ - 6 °20′, Horizontal: 64°30′ - 9°30′ |
| **Min. Focusing Distance** | 0.39 m/1.28 ft. |
| **Max. Magnification** | 0.28x (at 135 mm) |
| **Field of View** | Approx. 248 x 372 - 53 x 80 mm/9.76 x 14.65 - 2.09 x 3.15 inch (at 0.39 m/1.28 ft.) |
| **Filter Diameter** | 67 mm |
| **Max. Diameter and Length** | 77.4 x 96.0 mm/3.05 x 3.78 inch |
| **Weight** | Approx. 515g/18.2 oz |
| **Hood** | EW-73D (Sold Separately) |
| **Lens Cap** | E-67 II |
| **Case** | LP1116 (Sold Separately) |
| **POWER ZOOM ADAPTER** | PZ-E1 (Sold Separately) |

* Applies to 1/3-stop increments. With 1/2-stop increments, it will be f/22-38.

- Equivalent to 29-216 mm in the 35 mm film format.
- The lens length is measured from the mount surface to the front end of the lens. Add 24.2 mm when including the lens cap and dust cap.
- The size and weight listed are for the lens only, except as indicated.
- Extenders cannot be used with this lens. In addition, there are no close-up lenses designed for use 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.

**Only for European Union and EEA (Norway, Iceland and Liechtenstein)**



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU) and national legislation. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service. For more information regarding return and recycling of WEEE products, please visit
www.canon-europe.com/weee.

Canon

CT1-8610-000 1215Ni © CANON INC. 2015