

# Specifications

**Type:** 35mm autofocus, single-lens reflex camera with electronically-controlled automatic exposure, focal plane shutter, and built-in motor drive.

**EOS 750/750QD:** Built-in flash  
**EOS 750QD:** Built-in date or time imprint function  
**EOS 850:** Without built-in flash

**Format:** 24 x 36mm  
**Usable Lenses:** Canon EF lenses (full aperture metering only)

**Lens Mount:** Canon EF mount (electronic signal transfer system)

**Viewfinder:** Fast eye-level pentaprism. Gives 92% vertical and horizontal coverage of actual picture area, and 0.8X magnification at infinity with a 50mm f/1.8 lens.

**Dioptric Adjustment:** Built-in eyepiece is adjusted to standard 1 diopter (eyepoint: 6.2 inch/160mm)

**Focusing Screen:** Overlaid new laser-matte screen with AF frame.

**Mirror:** Quick-return ball-mirror.

**Viewfinder Information:** Displayed at the bottom of the viewing area.

1 AF in-focus symbol: Lights up when AF is possible. Blinks at 8Hz when AF is not possible. In Depth of Field AE Mode, blinks at first and second in-focus. Blinks at 4Hz when subject is out of the focus zone.

2 Exposure symbol: Lights up for correct exposure and flash charge completion. Blinks at 2Hz for camera-shake warning. Blinks 8Hz for out of coupling range warning. Off when flash is charging.

**Light Metering System:** TTL full aperture metering using SPCL Evaluative metering.

**Exposure Modes:** (1) Intelligent Program AE, (2) Depth of Field AE, (3) TTL program flash AE (with built-in flash or the Speedlite 160E), automatic fill-in flash and automatic flash at low-light level, (4) TTL program flash AE (with Speedlite 420EZ and 300EZ)

**Camera-shake Warning:** When automatically set shutter speed falls to 0.5 steps below 1/focal length of the lens in use. "P" blinks at 2Hz. No camera-shake warning when the built-in flash or dedicated flash is used.

**Metering Range:** EV 0.20 to 20 with 50mm f/1.4 at ISO 100. EV 3.20 to 18 with high temperature and humidity.

**Flash System:** ISO 25-3200 is automatically set by 1 step according to DX code. For non DX-coded film, set to ISO 25.

**Flash Control System:** TTL automatic control by metering light reflected from the film surface.

**Flash Coupling Range:** 3.3-14.18 (1.0-4.3m) at ISO 100.

**Charge Completion Indication:** "P" lights up. Release is locked during flash charging.

**Power Source:** One, six-volt lithium battery pack (CR2025) supplies power to body and built-in battery (EOS 750/750QD).

**Battery Check:** By rotating the selector dial to the battery check position. OK at 8Hz; have a new battery handy; at 2Hz, no tone; battery exhausted.

**Dimensions:**  
EOS 750:  
5-7/8" (W) x 4-1/16" (H) x 2-3/4" (D)  
(149.3 x 102.2 x 69.5mm)

EOS 750QD:  
5-7/8" (W) x 4-1/16" (H) x 2-13/16" (D)  
(149.3 x 102.2 x 71.0mm)

EOS 850:  
5-7/8" (W) x 3-13/16" (H) x 2-3/4" (D)  
(149.3 x 97.2 x 69.5mm)

**Weight:** EOS 750: 21-13/16 oz (620g) without battery.  
EOS 750QD: 22-3/16 oz (635g) without battery.  
EOS 850: 19-3/4 oz (560g) without battery.

**Built-in Flash (EOS 750, 750QD)**  
**Type:** Pentaprism built-in retractable TTL automatic flash. Aperture control with a parallel control system.

**Guide Number:** At ISO 100: 12 m/39 ft  
**Recycling Time:** Approx. 2 seconds.  
**Flash Duration:** 1 msec or less.

**Flash Coverage Angle:** Covers the field of view of 36mm lens.  
**Flash Condition:** 1. Automatic fill-in flash when background is detected.  
2. Automatic low-light flash.

**X-sync Shutter Speed:** 1/60-1/125 sec.  
**Sync. Timing:** First-curtain sync. only.

**Flash Control System:** TTL automatic control by metering light reflected from the film surface.

**Flash Coupling Range:** 3.3-14.18 (1.0-4.3m) at ISO 100.

**Charge Completion Indication:** "P" lights up. Release is locked during flash charging.

**Power Source for Built-in Flash:** Supplied by camera's battery.

**Flash Control:** Coupled directly to the camera on the accessory shoe.

**Automatic Flash:** Built-in flash or when using the Speedlite 160E. Using the camera's TTL program, the correct aperture value is automatically set according to the brightness of the subject. X-sync speed is automatically set between 1/60 and 1/125 sec. TTL automatic flash aperture control by metering light reflected from the film plane. Fill-in flash is possible.

**Date Imprint Function (EOS 750QD)**  
**Type:** Built-in LCD liquid crystal display—quartz digital automatic calendar and clock.  
Programmed to cover the period 1987 to 2019—corrections automatically made for long and short months and leap years.

**Imprint Formats:** (1) Year/Month/Day (2) Day/Hour/Minute (3) Month/Day/Year (4) Day/Month/Year. Can be turned off if no imprint desired.

**Clock Accuracy:** Accurate within 90 sec-per-month at moderate temperatures 68°F/20°C.

**Power Source:** CR2025 3V lithium battery. Life: About three years.

All data based on Canon's Standard Test Method. Subject to change without notice.

# Canon

# EOS 750-750QD 850

*Creative photography  
that's snapshot easy!*



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# Simply great photography...Simply!

New EOS 750, 750QD & 850 cameras from Canon make it fun to take great pictures again. You concentrate on getting just the shot you want, while EOS handles all the technical details.



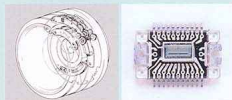


# Why EOS....?



## EOS The Concept of Creative Enjoyment

- During more than half a century of camera design and manufacture, Canon has consistently followed one overriding concept — the photographer should enjoy both the process of taking pictures and the finished photographs.
- Sophisticated EOS cameras take maximum advantage of Canon's technological capabilities to eliminate the work involved in taking pictures and increase your enjoyment of the art of creative photography.
- Our sensitive autofocus system is one good example; the lens-integral system optimizes the drive performance of each lens, for rapid focusing on your subject.



- Thanks to innovative BASIS (Base-Stored Image Sensor) technology, you get accurate autofocus results even under dim lighting.
- The high capacity EOS microprocessor coordinates camera and lens performance through an electronic mount that transmits both focus and exposure data. This data transfer system represents significant possibilities for future applications.
- The sleek design contours that smoothly fit the camera to your hand make the taking of each photograph an enjoyable creative act.

## Versatile Performance Capabilities to Make Creative Photography More Fun

### High Performance Automatic Focusing

Sensitive enough to perform under candlelight, EOS autofocus responds with speed and pinpoint accuracy to capture even fleeting action, bringing the main subject almost silently into crisp, sharp focus.

### Evaluative Metering Light Analysis

Divides the scene into six zones to let EOS analyze overall light levels and the amount of contrast present; the result is exceptional sensitivity to the exposure needs of the main subject and balanced exposure consistency.

### Dual Mode Auto Exposure Programming

EOS Intelligent Program auto exposure matches aperture/shutter speed selections to lens choice; innovative Depth-of-Field AE Mode takes advantage of autofocus functions to precisely control the zone of sharp focus.

### The SLR Choices That Meet Your Needs

#### EOS 750:

Built-in pop-up flash unit with completely automatic operation guarantees great photos, indoors or out, day or night.

#### EOS 750QD:

A special data back version that imprints the date or time directly on each picture.

#### EOS 850:

Ergonomic design and simple operation mean optimum results, for greater creative enjoyment and outstanding results. (Tiny clip-on Speedlite 160E provides auto-flash operation.)



Note: The displayed date is simulated.

## Program AE/Some very sophisticated light reading...

... lets you count on exposures of unparalleled sensitivity, accuracy and consistency. EOS Evaluative Metering compares lighting in six zones to calculate an optimum exposure value. This analysis of lighting contrast assures effective exposure of the overall scene, with optimal rendition of the main subject. Intelligent Program AE selects just the right combination of shutter speed and aperture to fit both your subject and the lens you're using. Whenever possible the program selects a shutter speed fast enough to prevent camera shake — the #1 enemy of good photography. If this isn't possible, the camera warns you through the viewfinder LED array. The built-in autowinder of each EOS camera lets you concentrate fully on your subject, without taking your eye away from the viewfinder.





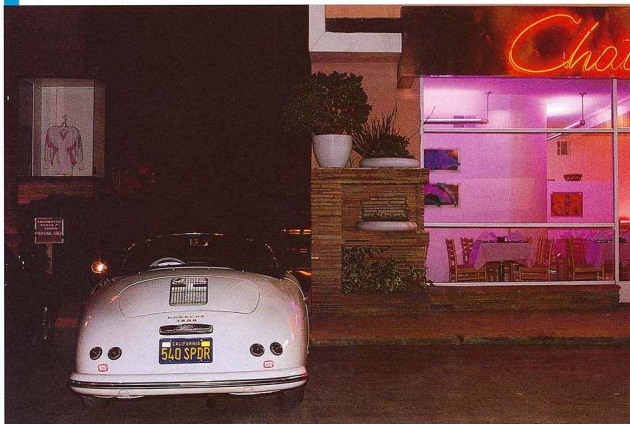
## Depth-of-Field AE/You decide how deep your focus zone should be....



.....then just concentrate on actually getting the shot. This unique EOS operating mode lets you select a zone of focus as deep or shallow as you want. Everything within that zone will be sharply focused. After you use the autofocus system to indicate the front and rear boundaries of the zone, the AE system will select an aperture that extends depth-of-field to within those boundaries, and then balance that aperture with the proper shutter speed for exposure accuracy.



# Auto Flash/Lighten up! — EOS makes it easy



## High Performance TTL Autoflash

The built-in, pop-up flash unit of the EOS 750 and the Speedlite 160E that clips to the EOS 850 both offer high speed, completely automatic electronic flash capability with TTL flash metering for highly accurate exposures. Whenever needed, flash operation is automatic, including setting of the proper flash-synch shutter speed. A built-in AF auxiliary light emitter enables the EOS autofocus in darkness. Lithium battery power minimizes flash recycling time, keeping you ready to shoot sequentially even in the dark.



With built-in flash popped up



With Speedlite 160E attached



Without fill-in flash

## Automatic Fill-in Flash

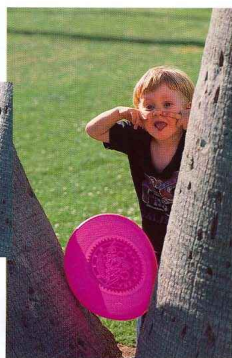
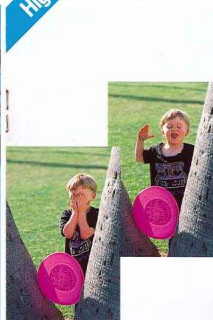
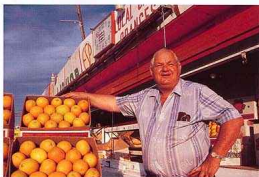
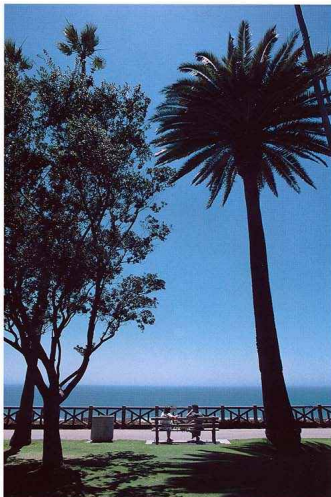
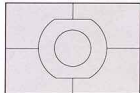
Adding just enough illumination to balance strong lighting from behind or the side of the main subject has always been one of photography's most difficult artistic challenges. The EOS system handles this job automatically, however. Under bright sunshine or in the shade, an EOS system flash unit guarantees just the right amount of extra lighting to balance exposure of both the main subject and the background.





## Critical Light Analysis for Optimum Exposure

The EOS Evaluative Metering system measures the amount of light reflected by the scene in six zones. The camera's microprocessing system then compares lighting contrasts to calculate an optimum exposure value. Subject brightness shifts between emphasis on highlights or shadow detail as appropriate. Even under extreme lighting conditions, you can obtain effective exposure of the overall scene and sensitive rendition of the main subject.



## Slicing Life with Razor Sharpness

EOS lens-integral autofocus is capable of very quick, very precise focusing, under light levels as dim as EV1. This sensitivity is achieved through Canon's exclusive Base-Stored Image Sensor — BASIS — integrating an amplifier and peak monitor with each detector element. The actual focusing is performed within the lens by a high-torque motor with instantaneous start/stop response. Most Canon EF lenses feature an Arc Form Drive (AFD) motor, with select professional lenses incorporating an Ultrasonic Motor (USM) for virtually silent operation. These advanced motors eliminate the problem of torque adjustment; guaranteeing high performance autofocus at any focal length.

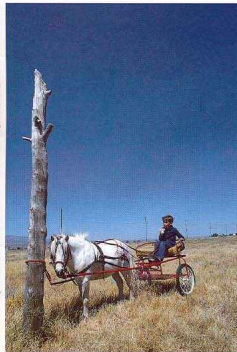
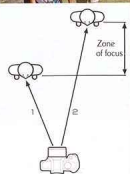




## Make the Most of Technology to Explore Creative Shooting

Using the Depth-of-Field AE Mode allows you to set a precise zone of focus, as deep or shallow as you want. After selecting the mode, you simply let the camera know where you want sharp focus to begin (1) and end (2). EOS then sets the precise focal plane at an intermediary position and calculates an aperture setting that will result in the desired zone of focus.

Portraits, for example, call for a shallow focus zone to emphasize the subject; scenics, on the other hand, generally benefit from foreground-to-background sharpness.



This mode is also very useful when shooting sports or other fast-moving action. By determining in advance where focus should be set, you can then concentrate on framing the subject. Simply release the shutter when the subject reaches the focus zone. The speed and calculating capabilities of the EOS microprocessor make it possible to combine AE and AF functions in this mode and still react instantaneously to changes in shooting conditions.

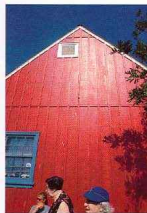






### Get a Close Look At Every Detail

EOS automation opens the door to beautiful close-up photography that's just as simple as your family snapshots. Evaluative Metering, for example, is particularly effective in obtaining consistent exposure of extreme close ups; Depth-of-Field AE mode lets you sharply isolate flowers against an out-of-focus background, or keep every element of a still life within the focus zone; auto flash lighting brings out fine details and guarantees sharpness. Most EF lenses feature close focusing capability that approaches macrophotography, without specialized equipment.

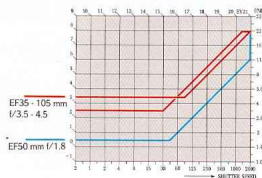


### Frame Each Shot Exactly to Fit

For a photo system that provides every advantage, combine an EOS 750/850 body with Canon EF Zoom Lenses.

These allow you to eliminate distracting elements from the scene without moving and to change focal lengths rapidly to shoot subjects at different ranges. You also have the capability to get framing variations from a single position. The camera shake warning system adjusts automatically to the selected focal length. By selecting just three EF Zoom lenses you can obtain coverage that ranges from 28mm wide angle to 300mm telephoto to handle virtually all shooting situations.

With Program shooting EOS determines exposure settings by balancing its selection of shutter speed and aperture according to a predetermined curve. Intelligent Program AE shifts the start of the curve according to the focal length of the lens in use, even shifting with zoom lens framing.



# Canon EF Lenses/ Power to perform

## Superior Optical Quality Electro-Magnetic Diaphragm Aspherical Lens Elements



**28mm field:**  
provides good wide angle coverage for excellent landscape photos, along with strong perspective differentiation of foreground/background contrast.



**50mm field:**  
covers basically the same field of view as the human eye, for high quality reproduction free from all optical effect.



**135mm field:**  
provides the telephoto reach to obtain better detail of distant subjects, also effective for portraiture.



**300mm field:**  
strong telephoto effect with considerable compression of subjects and enhancement of detail.

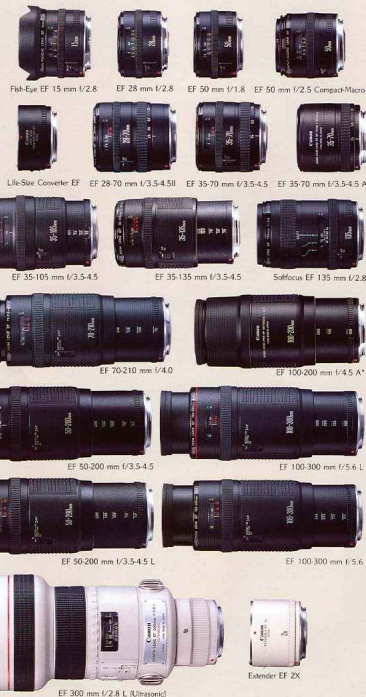
### The Canon EOS Lens Lineup

Lens	Focus Drive AFD USM	Angle of View	Construction	Minimum Aperture	Closest Focusing Distance		Filter Size (mm)	Length		Weight	
					(m)	(ft)		(mm)	(in.)	(g)	(oz)
Fish-Eye EF 15 mm f/2.8	●	180°	7-8	22	0.2	0.7	Filter Holder	62.2	2.7/16"	330	11.9/16
EF 28 mm f/2.8	●	75°	5-5	22	0.3	1	52	42.5	1.1/16"	185	6-1/2
EF 50 mm f/1.8	●	46°	5-6	22	0.45	1.5	52	42.5	1.1/16"	190	6-11/16
EF 50 mm f/2.5 Compact-Macro	●	46°	8-9	32	0.228	0.748	52	63	2-1/2"	280	9-13/16
Softfocus EF 135 mm f/2.8	●	18°	6-7	32	1.3	4.5	52	98.4	3.7/8"	410	14-7/16
EF 300 mm f/2.8 L (Ultrasonic)	●	8°15'	7-9	32	3	10	48	253	9-15/16"	2,855	100-11/16
EF 28 mm f/3.5-4.5 II	●	75°-34°	9-10	22-29	0.5	1.75	52	75.6	3"	285	10-1/16
EF 35-70 mm f/3.5-4.5	●	63°-34°	8-9	22-29	0.5	1.75	52	63	2-1/2"	245	8-5/8
EF 35-70 mm f/3.5-4.5 A	●	63°-34°	8-9	22-29	0.5	1.75	52	63	2-1/2"	230	8-1/8
EF 35-105 mm f/3.5-4.5	●	63°-23°30'	11-14	22-29	1.2	4	58	81.9	3-1/4"	400	14-1/8
EF 35-135 mm f/3.5-4.5	●	63°-18°	12-16	22-29	1.5	5	58	94.5	3-11/16"	475	16-3/4
EF 50-200 mm f/3.5-4.5	●	46°-12°	13-16	32	1.5	5	58	146.4	5-3/4"	690	24-1/8
EF 50-200 mm f/3.5-4.5 L	●	46°-12°	14-16	32	1.5	5	58	145.8	5-3/4"	695	24-5/16
EF 70-210 mm f/4.0	●	34°-11°45'	8-11	32	1.5	5	58	137.6	5-7/16"	605	21-3/16
EF 100-200 mm f/4.5 A*	●	24°-12°	7-10	32	1.9	7	58	130.5	5-1/8"	540	18-7/8
EF 100-300 mm f/5.6	●	24°-8°15'	9-15	32	2	7	58	166.8	6-9/16"	685	23-15/16
EF 100-300 mm f/5.6 L	●	24°-8°15'	10-15	32	2	7	58	166.6	6-9/16"	695	24-5/16
Extender EF 2X	●	—	—	—	—	—	—	50.5	2"	240	8-3/8
Life-Size Converter EF	●	—	—	—	—	—	—	34.9	1-3/8"	205	7-3/16

- \* Extender EF 2X is for exclusive use with EF 300 mm f/2.8 L.
- \* Life-Size Converter EF is for exclusive use with Compact-Macro EF 50 mm f/2.5.
- \* All EF zoom lenses have a built-in macro mechanism.
- \* Available soon.

Canon EF lenses offer exceptional optical quality. The high resolution, excellent contrast, color reproduction and balance and elimination of spherical aberrations means your photos will be sharper, clearer and more detailed. And this lens system includes a choice of focal lengths that meets every need, as well as versatile zooms and several specialized optics.

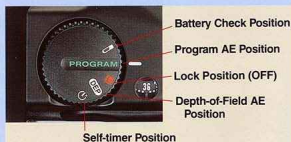
Most EF lenses make extensive use of aspherical lens elements to achieve tremendous performance despite their compactness and light weight. Canon's technique for producing glass-molded aspherical elements allows their use in high quality EF lenses that remain affordable. Aspherical elements are especially effective in zoom lenses, where they help correct aberrations induced when focal length changes. Lenses bearing the "L" designation utilize ultra-low dispersion (UD) glass or fluorite for even greater sharpness. Every EF series lens incorporates an Electro-Magnetic Diaphragm (EMD) for extremely precise control. The electronic mount of EF lenses provides data transfer couplings for all essential operating information. This guarantees that EF lenses will remain state-of-the-art for years to come, as even further advances are made in camera technology.





# Take Full Advantage of EOS Performance with Simple Operation

Under normal shooting situations you'll want to use the Program AE shooting mode. Here is how it works:

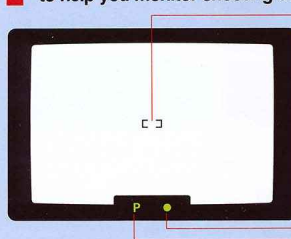


1. Make certain you've set the lens focus mode switch to "AF" and the selector dial to "PROGRAM".
2. Next, position the autofocus frame in the viewfinder on your main subject. Press the shutter button halfway for focus and exposure.
3. When "P" and "●" light, press the shutter button completely to take the picture.



- 2 **Shutter Button**  
Half pressure of the shutter button activates autofocus and exposure and when obtained, both are locked. Press it completely to take the picture.

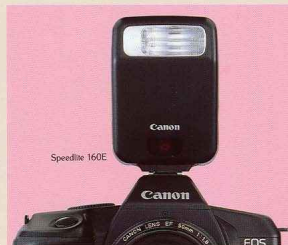
The viewfinder contains three guides to help you monitor shooting conditions.



- Autofocus Frame**  
— Put this frame on the intended subject.
- In-focus Symbol "●"**  
— Lights up when focus is obtained.  
— Blinks to indicate focus is impossible.
- Exposure Symbol "P"**  
— Lights up when correct exposure is obtained.  
— Blinks to warn of camera shake or incorrect exposure.

These EOS cameras require the use of DX-coded film in order to properly set the ISO sensitivity rating. Film loading has been made virtually automatic and the entire roll of film is pre-wound. This way, the built-in autowinder of the camera pulls exposed film back into the protective cartridge after each shot, and the frame counter shows the number of exposures remaining.

## Accessories



### Speedlite 160E

Extremely compact and light, the Speedlite 160E is a great traveling companion for the EOS 850. Just clip it on and the rest is completely automatic; the 160E goes to work under dim lighting conditions or whenever the need for fill-in flash is detected. The camera's microprocessing circuitry controls output (max. G.No. 16-m/52-ft at ISO 100), with TTL flash metering at the film plane. The 160E features lithium battery power, for recycling that's almost instantaneous.

### Speedlites 420EZ & 300EZ

Powerful performance is available from the Speedlite 420EZ, with its high intensity G.No. 35-m/116-ft output, and the Speedlite 300EZ with an output of G.No. 28-m/93-ft (based on ISO 100 and a 50 mm lens). The 420EZ is particularly effective indoors, where its tilting flashhead allows the use of bounce-flash techniques to soften the lighting and improve background detail. An auto internal zooming function varies the angle of coverage for these units to provide flexible performance that maximizes output for specific lenses. Both units also offer ATTL flash automation for excellent foreground/background exposure results.



### Semi-Hard Camera Cases

Canon offers a selection of three semi-hard camera cases that offer excellent protection for the camera with lens for the photographer on-the-go.  
Case S: for camera with EF 50mm  
Case L: for camera with EF 35-70mm  
Case LL: for camera with EF 35-105mm



### Dioptric Adjustment Lenses

Canon offers a selection of 10 different eyepiece correction lenses, in powers from +3 to -4 diopter, to make viewing and focusing easier for photographers who need vision correction.



### Circular Polarizing Filters PL-C

Improved contrast and prevention of glare is provided by these screw-in filters, available in three sizes (52mm, 58mm and 72mm). The PL-C filters operate with complete autofocus accuracy.

# Nomenclature/How EOS Makes the Difference

