EOS System

Canon

advanced simplicity™

EOS

EOS: THE POWER TO INSPIRE

REALISE YOUR CREATIVE VISION WITH THE CANON EOS SYSTEM

Canon introduced the EOS system in 1987 utilising modern technology to deliver the most advanced photographic equipment on the market. Since then, EOS cameras have been consistently at the forefront of photographic performance. Canon has developed a system that not only sets new standards of innovation, it is also engineered to support new technologies as they are created.

Today, the EOS system includes an ever-expanding interchangeable range of 35mm and digital camera bodies, lenses and accessories. Compatibility extends beyond SLRs and lenses, encompassing digital still and digital video formats, making EOS the most comprehensive image capture system available today. With an ever-growing range of SLRs, Canon brings the EOS advantage to all photographers: amateurs who want exceptional results with the simplicity of point-and-shoot operation, professionals who require a specialised tool to help bring their creative vision into focus, and everyone in between.

Only Canon EOS camera owners have access to the world's largest selection of autofocus lenses with technologies such as ultrasonic, high-speed AF and Image Stabilizer, as well as numerous other accessories including Speedlite flash units with Canon's E-TTL flash exposure system, Power Drive Boosters, dedicated photo printers, remote controllers and much, much more.

If you already own an EOS camera, you can stimulate and broaden your creativity by taking advantage of the many system accessories available for your camera. If you haven't tried EOS yet, come and see what you've been missing. Creative power is what EOS is all about ... today and tomorrow!

EOS CAMERAS 2
- EOS Digital SLR 2
- EOS Digital Technology 4
- EOS 35mm SLR 6
- EOS Comparison Chart 8
- EOS System Chart 11

EF LENSES 12
- Lens Range 12
- Canon Lens Technology 14
- EF Lens Specifications 16
- EF Lens Accessories 17

SPEEDLITES 18
- Speedlite Range 18
- Speedlite Technology 20
- Wireless Flash Photography 22
- Speedlite Accessories 24

POWER SUPPLIES 25
- Power Drive Boosters, Chargers, Grips and Battery Packs 25

DIGITAL ACCESSORIES 28
- Battery Grips, Batteries, Cables and More 28

SHOOTING ACCESSORIES 30
- Date Back and Remote Control Accessories 30
- Viewing Accessories 31
- Focusing Screens 32

PERIPHERALS 32
- Data Organisation 32
- Printers 33

CASES AND STRAPS 34
- Semi-hard Cases and Straps 34

EOS-1Ds DIGITAL

High–Resolution Images with Pro Performance

Perfect for journalists, studio and wedding photographers, or anyone who wants the highest possible resolution from their digital SLR, the EOS-1Ds sets a new standard, raising the bar on image quality while retaining proven EOS performance. With an 11.1 million pixel full-frame CMOS sensor, the EOS-1Ds is the first Canon digital SLR to use the entire line of Canon autofocus lenses without a conversion factor, making for no compromise wide-angle photography, and tremendous image files. The EOS-1Ds has outstanding performance features such as fast 45-point AF, 3 fps for 10 consecutive frames, a 5-mode 21-zone metering system, 10 modes of white balance and 5 modes of colour options. It is capable of simultaneous RAW and JPEG recording, utilises Canon's advanced flash technologies, including E-TTL wireless autoflash, and comes bundled with powerful new software utilities for both Mac OS® and Microsoft® Windows®.

CMOS sensor

EOS-1D Mark II DIGITAL

The World's Fastest Digital SLR*

DiG!C II Imaging Processor

Capable of taking 8.5 fps for up to 40 shots, Canon's newest digital EOS, the EOS-1D Mark II, shatters performance standards for digital SLRs. The EOS-1D Mark II has an extra-large 8.2 MP CMOS sensor, an advanced DiG!C II Imaging Processor and several other notable improvements. These include dual memory card slots for both SD memory and CompactFlash, a magnified zoom display, Exif 2.21 support, video out, and much more. This digital SLR is built like a tank, with a weather-resistant, magnesium alloy body and upgraded shutter durability of 200,000 cycles. Fully compatibile with the entire line of EOS EF Lenses and EOS accessories, the EOS-1D Mark II can handle any kind of photography, anywhere, any time.

*As of February 2004

EOS 10D DIGITAL

Photographic Performance in a Digital World

The EOS 10D brings an unprecedented level of features, controls and value to the advanced amateur and studio photographer. It has a newly designed, rugged body with a magnesium alloy exterior, a 6.3 MP CMOS sensor which incorporates Canon's exclusive DiG!C Imaging Processor, high-speed, 7-point wide area AF with superimposed focusing points, user adjustable parameters to change 4 aspects of image quality, 3 frames per second speed (up to 9 shots in JPEG or simultaneous RAW/JPEG mode), and a pop-up flash. The EOS 10D is compatible with Canon's entire range of EF lenses, digital printers and Speedlites, has USB connectivity, selectable colour spaces, Exif 2.2 and DPOF 1.1 support, and includes Canon's capture software for MAC OS® and Microsoft® Windows®. With these advanced features in an easy-to-use interface, the EOS 10D makes digital EOS photography available to everyone.

Magnesium alloy body

EOS 300D DIGITAL

Photography Without Limits

The EOS 300D is for everyone, offering SLR excitement and quality, digital convenience and unlimited EOS system creativity. High performance is ensured with Canon's "Digital Trinity" 6.3 MP CMOS sensor, DiG!C Imaging Processor, and compatibility with dozens of EF lenses and EOS system accessories. Novice photographers can become experts quickly with easy, enticing SLR functions like high-speed, 7-point wide area AF with superimposed focusing points, 3 AF modes, 12 shooting modes, automatic and enhanced exposure controls, highly adaptive white balance controls and intelligent pop-up flash with red-eye reduction. The EOS 300D has a host of other great features including a full resolution 2.5 fps continuous shooting mode and expanded colour space settings and multiple processing parameter options. The big, clear LCD screen can be adjusted for brightness, menus are plainly written, and playback zooms all the way to 10x with a flexible view. All this in a lightweight, high-style, go-anywhere camera that's comfortable to hold and easy to use. EOS 300D is the new standard in premium-quality digital SLRs.

Camera: EOS-1D, Lens: 24-70mm f/2.8L, ISO Speed: 100, Aperture: f/8.0, Shutter: 1/250, White Balance Natural Sunlight

Canon Image Rendering

As the only company in the world that designs, develops and manufactures its own cameras, lenses, image sensors and image processors, Canon brings an unrivalled level of technological know-how to the digital SLR world. By sharing research and information among development teams, and keeping the entire creation and production of a product in-house, Canon is able to create technologically advanced products faster than any other company. Only Canon EOS digital SLRs benefit from Canon's decades of innovation in both the consumer and professional markets.

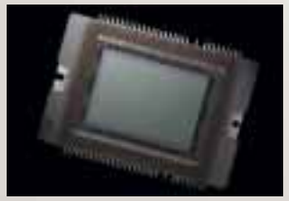
Canon digital SLRs utilise the latest in sensor and processor technology to ensure the purest, highest quality images available today. All EOS digital SLRs provide the user with quick operation, virtually identical to that of a traditional 35mm SLR, so that users will feel no compromise in working with digital photography.

Innovations like Canon's CMOS Sensor and DiG!C Imaging Processor, combined with Canon's years of experience in making industry-leading EOS cameras and lenses, have kept Canon Digital SLRs leaps ahead of the competition.

A Closer Look at Canon Digital SLR Technologies

CMOS SENSORS

A good digital image sensor must meet or exceed a photographer's requirement for film. It must work well in low light, with a good signal-to-noise ratio, yet must have a broad dynamic range for use in bright light.



CMOS sensor

It must be large enough to ensure wide depth of field, as in traditional photography, but must also be efficient, or the photographer will have to change batteries all day long.

Bearing this in mind, Canon developed its own CMOS (complementary metal-oxide semiconductor) sensor to record digital images, taking advantage of proprietary know-how gained during the development and manufacturing of its renowned autofocus sensors and semiconductor manufacturing equipment. Compared with CCD sensors which amplify signals only after they have been transferred to an image processor, CMOS sensors convert and amplify signals before they are transferred. Using this method together with additional proprietary technology, Canon's CMOS sensors produce a cleaner signal from the beginning. At the same time, power consumption is reduced by up to 90% compared with CCDs, and data transfer speeds can be significantly increased via multi-channel readouts.

To mirror the characteristics of 35mm cameras, CMOS sensors can easily be built as full-frame 35mm sensors, something that is difficult, if not impossible, with CCD sensors. To fabricate a full-frame 35mm sensor, the manufacturing equipment must produce "adjoining exposures". Since CCDs have both vertical and horizontal electrical charge transfer paths, it is difficult to combine them to form large sensors without affecting their charge transfer characteristics. CMOS sensors, however, can be combined easily because their vertical and horizontal wiring points simply have to be connected electronically.

imaging engine

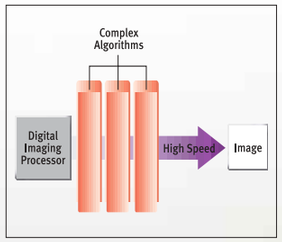
Canon's CMOS sensors incorporate a unique on-chip noise reduction technology to deal with both fixed-pattern and random noise, resulting in silky-smooth, film-like images, with limited power consumption, at breathtaking speed. In addition, a multi-layer low-pass filter is placed in front of the sensor in order to isolate false colours that the sensor may detect. Then, Canon's proprietary imaging engine processes the image to eliminate the false colours while retaining full detail.

with anti-noise Processing

without anti-noise Processing

DiG!C IMAGING PROCESSORS

No matter how advanced the sensor, metering or lens of your SLR, the backbone of a good digital camera is the signal processing technology that renders and writes your image to your card. Developed to maximise performance between the capture and recording aspects of digital photography, Canon's DiG!C (Digital Imaging Integrated Circuit) chip enhances the signal-processing algorithms associated with image capture, resulting in improved image quality and a more intuitive, responsive camera. This ultra-high-performance imaging engine speeds up the processing, compression, display and write times for each image, all with low power consumption, saving valuable battery power. The latest-generation DiG!C II Imaging Processor works in concert with Canon's newest CMOS sensor to achieve even higher levels of performance. New signal processing algorithms work with the multi-channel signal from the sensor and the high-speed DDR-SDRAM (Double Data Rate Synchronous Dynamic Random Access Memory) buffer to deliver dramatically improved camera response. Power consumption has been further reduced for even longer battery life. Colour reproduction, too, is significantly better, with more natural rendition of bright, high-saturation subjects and more precise auto white balance. Colour accuracy and noise performance in low light have also been much improved.

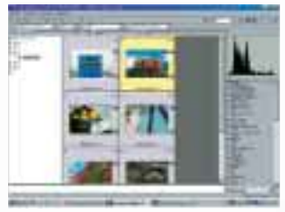


high speed enables high quality

SIMULTANEOUS RAW + JPEG RECORDING

While negatives contain all original image data captured by film-based cameras, RAW files contain all original data captured by digital cameras. At the same time, JPEG files are convenient to use while preserving high image quality. With an eye to the future of digital photography, Canon is convinced that the further development of RAW and JPEG technologies will enable digital photographers of the future to have the highest quality images possible. Bearing that in mind, all of Canon's digital EOS SLRs can record JPEG and RAW files simultaneously. Often referred to as "digital negatives", RAW files are no-compromise, reversible compression, full resolution files with minimal in-camera processing; essentially, they are unaltered raw image data. Properly post processed, RAWs provide the highest possible image quality from a digital SLR. Using software bundled with the camera, users can preview RAW files, adjust settings like colour balance, saturation, sharpness and exposure compensation, and save final images in other file formats.

preview display



thumbnail display

In post processing, it's possible to find and extract highlight and shadow detail from RAW images, extending the dynamic range of your digital SLR, often exceeding the range of 35mm slide film. Additionally, RAW files are the best way to store your unaltered image data for use in the future. JPEG images created by Canon digital SLRs are compressed files, processed to reflect the sharpness, colour, tone and white balance settings as recorded by the camera. Taking up less storage space, JPEGs are often more immediately pleasing to the eye, and, thanks to the high-quality signal processing applied by Canon's image processor, can withstand significant retouching with virtually no loss in quality. In-camera JPEGs are also convenient for immediate usage in a wide variety of applications, such as e-mail, Web galleries, and office-related applications such as word processors and presentation software.

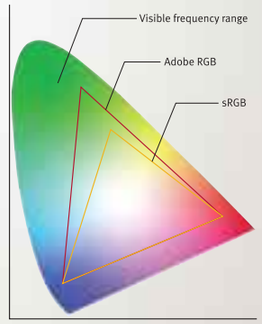
white balance function

Camera: EOS-1D Mark II, Lens: EF 17-35mm f/2.8L USM, Width: 2464 pixels, Height: 1648 pixels, ISO Speed: 200, Aperture: f/11, Shutter: 60, Exposure Mode: Aperture-priority AE, Drive Mode: Single, White Balance: Auto

COLOUR MANAGEMENT

At every step of the design and manufacturing process Canon ensures that your SLR, lens and computer will work together seamlessly resulting in colour that is both sharp, accurate and pleasing to the eye.

Canon's proprietary image rendering processes utilise numerous data for colour rendition. The sensor captures an even wider gamut of colours than your computer is capable of recognising and, through complex operations, the processor ensures that whether you're shooting in sRGB for the web, or in Adobe® RGB colour space for commercial applications, your colours will turn out just right. Beyond what your EOS SLR does on its own, advanced users can set their own white balance, colour temperature, saturation and much more.



Canon digital camera colour space

EOS-1v HS

EOS-1v HS with the optional Power Drive Booster PB-E2.

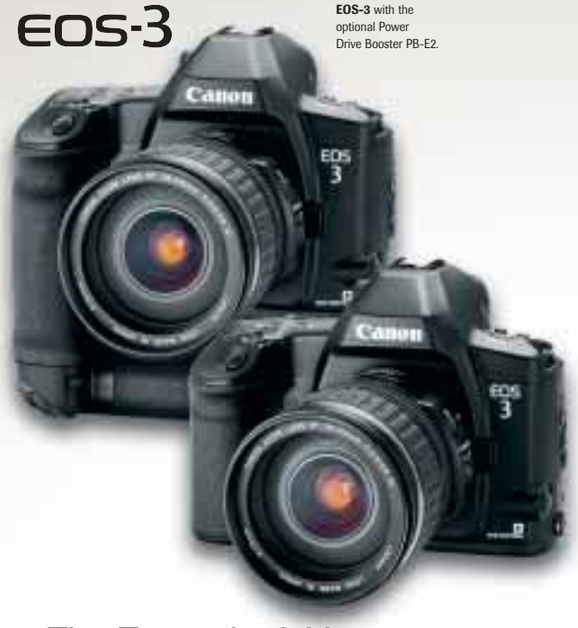
EOS-1v

The Ultimate in Professional Vision

With the world's fastest AF, and a continuous shooting speed of up to 10 frames per second, the EOS-1v continues the Canon tradition of advanced features and exceptional speed in a rugged, reliable package. The EOS-1v has more customisable features than any other Canon 35mm SLR: a 45-point AF system, 100% viewfinder coverage, a top shutter speed of 1/8,000 sec, a flash sync of 1/250 sec, 21-zone evaluative metering, E-TTL auto flash, full-time depth-of-field preview, and much, much more. Part of a comprehensive professional system, the EOS-1v supports EOS Link Software and is compatible with Canon's full line of autofocus lenses and Speedlites. The EOS-1v's rubber-covered magnesium alloy body, combined with a hybrid chassis, 72 individual gaskets for proven moisture and dust resistance, a shutter tested to 150,000 cycles and familiar EOS-1 control layout make this flagship 35mm perfect for any pro. The EOS-1v HS adds Canon's Power Drive Booster PB-E2 for even more speed.

EOS-3

EOS-3 with the optional Power Drive Booster PB-E2.



The Triumph. A Victory for Photography

A sturdy and modern, full-featured SLR for professionals and advanced amateurs alike, the EOS-3 incorporates a host of technological advances that raise the bar for performance in a high-quality 35mm SLR. These features include a 45-point autofocus system, Canon's amazing Eye-Controlled AF, predictive AF up to 7 frames per second (with optional Power Drive Booster PB-E2 and NP-E2 battery pack), E-TTL auto flash, 18 custom functions, compatibility with Canon's full range of autofocus lenses and Speedlites, and much, much more. These capabilities are incorporated into a rugged body with easily accessible controls for quick and easy execution of camera operations. Almost instinctual, the EOS-3 will help to ensure that you never miss a shot again.

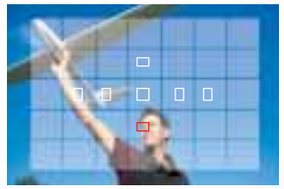
since the 45-Point area covers both the target ball and the player's face, you can focus on either one with your eye.

EOS 33V

EOS 30V

Inspired, with the Fastest AF in its Class

With Eye-Controlled Focus (EOS 30V only), a top shutter speed of 1/4,000 sec and 4 fps film advance, the EOS 30V/33V is the perfect camera to take your photography to the next level. Incorporating a host of new features that Canon owners have asked for – including a 7-point AF system with the fastest focusing in its class, a new backlit display, Canon's Whisper Drive technology, and enhanced E-TTL II autoflash, all in a nearly silent, elegant and rugged package – the new EOS 30V/33V with its pro-quality ultra matte coating is the perfect camera for those looking to push their photography further. All this, plus compatibility with the entire line of Canon EF lenses, Speedlites and accessories.



35-zone evaluative metering

EOS 3000V

EOS 300V

EOS 3000N

The Easy Way to Get into EOS

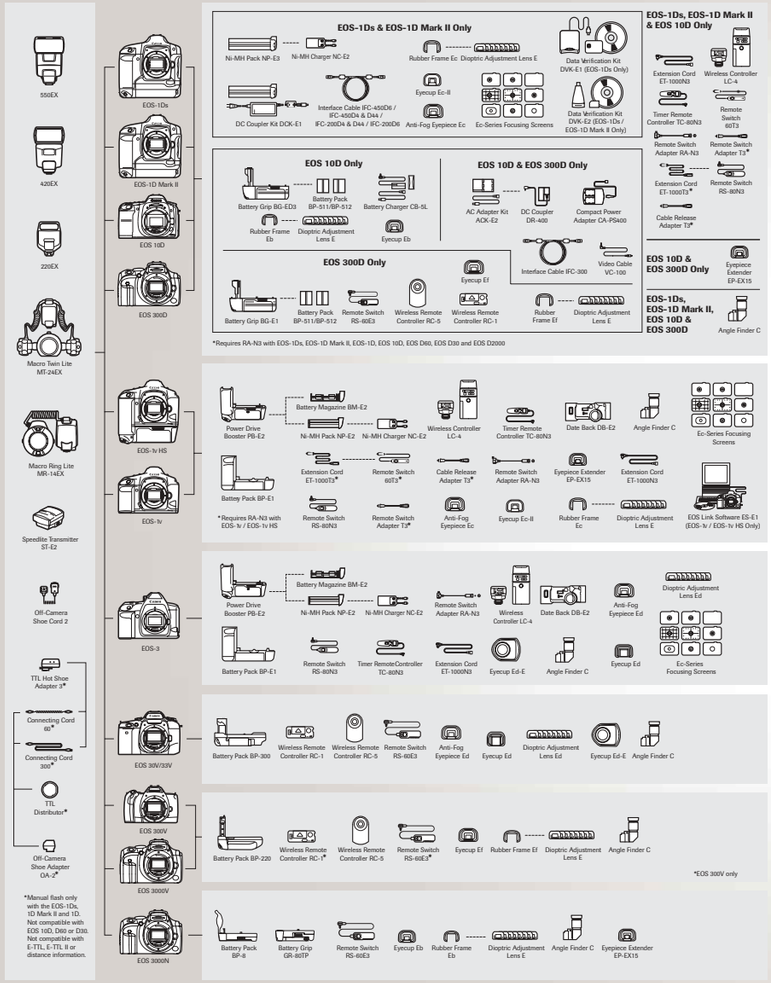
The EOS 3000N, EOS 3000V and EOS 300V let you in on everything SLR photography and the Canon EOS system have to offer. With these cameras, there's never been a better time or a more economical way to get into the EOS system. Each model has a host of automatic exposure controls to propel your images to the next level immediately, while creative controls are there when you're ready for them. With striking, modern and ergonomic designs, compatibility with nearly all EOS accessories, useful integral accessories like pop-up flash with red-eye reduction, simple user interface, and much more, you'll never want to put these cameras down. With their compact size, elegant design, competitive pricing, and infinite options for expandability, these models are perfect for the photographer ready to make the move into an SLR.

EOS SYSTEM COMPARISON CHART

	DIGITAL EOS-1Ds	DIGITAL EOS-1D Mark II	DIGITAL EOS 10D	DIGITAL EOS 300D	EOS-1v/1v HS	EOS-3	EOS 30V/33V	EOS 300V	EOS 3000V	EOS 3000N
Autofocus System	TTL-Area-SIR CMOS Sensor. One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses.	TTL-Area-SIR CMOS Sensor. One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Automatic or manual focus point selection.	TTL-CT-SIR* CMOS sensor. One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Automatic and manual focusing point selection.	TTL-CT-SIR* CMOS sensor. One-shot or AI Servo AF with Focus Prediction automatically set by camera. Manual focusing confirmation possible with EF lenses. Automatic and manual focusing point selection.	TTL-AREA-SIR CMOS Sensor. One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Automatic and manual focusing point selection.	TTL-AREA-SIR CMOS sensor. One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Eye-Controlled Focus point selection, automatic focusing point selection and manual point selection.	TTL-CT-SIR* CMOS sensor. One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Focusing point selection by Eye-Controlled Focus (30V only), automatic focusing point selection and manual point selection.	TTL-CT-SIR* CMOS. Auto switching between One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Automatic and manual focusing point selection.	TTL-CT-SIR* CMOS. Auto switching between One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Automatic and manual focusing point selection.	TTL-CT-SIR Multi Basis*. Auto switching between One-shot and AI Servo AF with Focus Prediction. Manual focusing confirmation possible with EF lenses. Automatic and manual focusing point selection.
Special Features	• 11.1 million pixel CMOS Digital SLR Camera • Maximum continuous shooting speed of 3 fps (approximate) • Built-in 2.0 inch colour monitor • Custom Functions (21 custom functions with 67 settings) • Simultaneous RAW and JPEG image capture • Depth-of-Field Preview • Mirror Lock • IEEE 1394 Compatible	• 8.2 million pixel CMOS Digital SLR Camera • Maximum continuous shooting speed of 8.5 fps (approximate) • Built-in 2.0 inch colour monitor • Custom Functions (21 custom functions with 67 settings) • Simultaneous RAW and JPEG image capture • Depth-of-Field Preview • Mirror Lock • IEEE 1394 (4-pin) Compatible	• 6.3 million pixel CMOS Digital SLR camera • Retractable built-in E-TTL flash • Magnesium alloy exterior • Maximum continuous shooting speed of 3 fps (approximate) • Built-in 1.8 inch colour monitor • Custom Functions (17 custom functions with 61 settings) • Quick Control Dial • Depth-of-Field Preview • Simultaneous RAW and JPEG image capture • USB Compatible	• 6.3 million pixel CMOS Digital SLR camera • Retractable built-in E-TTL flash • Maximum continuous shooting speed of 2.5 fps (approximate) • Built-in 1.8 inch colour monitor • Wireless remote control compatible • Smallest and lightest EOS Digital SLR camera • Depth-of-Field Preview • Simultaneous RAW and JPEG image capture • USB Compatible	• Custom Functions (20 custom functions with 63 settings; 3 user-set groups possible) • Quick Control Dial • PC Link (with optional ES-E1 software) • Auto Exposure Bracketing (±3 steps in 0.3 EV) • Multiple Exposure • Depth-of-Field Preview • Mirror Lock • PC terminal • N3 remote control socket • EOS-1v HS includes accessory Power Drive Booster PB-E2	• Custom Functions (18 selectable features) • Quick Control Dial • Auto Exposure Bracketing (±3 steps in 0.3/0.5EV increments) • Multiple Exposure • Depth-of-Field Preview • Mirror Lock • PC terminal • N3 remote control socket • Accepts optional Power Drive Booster PB-E2	• Metal exterior with Ultra Matte Coating • Electroform parts for the nameplate and top dials • Retractable built-in flash • Custom Functions (13 functions, 34 settings) • Depth-of-Field Preview • Quick Control Dial • Mirror Lock • Auto Exposure Bracketing (±2 steps in 0.5EV increments) • Multiple Exposure • Compatible with Battery Pack BP-300 • Compatible with RS-60E3 Remote Control	• Retractable built-in TTL flash • Depth-of-Field Preview • Multiple Exposure • Orientation Detection Sensor • Superimposed AF Point • Remote Socket • Diopric Adjustment • Compatible with Battery Pack BP-220 • Illuminated oversize LCD Panel	• Retractable built-in TTL flash • Multiple Exposure • Oversize LCD Panel • Compatible with Battery Pack BP-200	• Retractable built-in TTL flash • Multiple Exposure • Compatible with Battery Pack BP-8 and Tripod Grip GR-80TP • Remote Socket
Number of Focusing Points	45 (Area AF Ellipse)	45 (Area AF Ellipse)	7 (| |‡| |)	7 (| |‡| |)	45 (Area AF Ellipse)	45 (Area AF Ellipse)	7 (| |‡| |) (with red illumination)	7 (| |‡| |) (with red illumination)	7 (| |‡| |)	(|+|) 3
Autofocus Sensitivity	EV 0-18 (at ISO 100)	EV 0-20 (at ISO 100)	EV 0.5-18 (at ISO 100)	EV 0.5-18 (at ISO 100)	EV 0-18 (at ISO 100)	EV 0-18 (at ISO 100)	EV 1-18 (at ISO 100)	EV 1-18 (at ISO 100)	EV 1-18 (at ISO 100)	EV 2-18 (at ISO 100)
Autofocus Auxiliary Light Built In	–	–	Yes (via built-in flash)	Yes (via built-in flash)	–	–	Yes	Yes	Yes	Yes
Shutter	Vertical-travel, mechanical, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled.	Vertical-travel, mechanical, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled.	Vertical-travel focal-plane shutter with soft-touch electromagnetic release and all speeds electronically controlled.	Vertical-travel focal-plane shutter with soft-touch electromagnetic release and all speeds electronically controlled.	Vertical-travel focal-plane shutter with soft-touch electromagnetic release and all speeds electronically controlled.	Vertical-travel, focal-plane shutter with soft-touch electromagnetic release and all speeds electronically controlled.	Vertical-travel focal-plane shutter with soft-touch electro-magnetic release and all speeds electronically controlled.	Vertical-travel focal-plane shutter with all speeds electronically controlled.	Vertical-travel focal-plane shutter with all speeds electronically controlled.	Vertical-travel focal-plane shutter with all speeds electronically controlled.
Shutter Speeds	30-1/8,000 sec. & Bulb; manually selectable in 0.3EV, 0.5EV or 1EV increments.	30-1/8,000 sec. & Bulb; manually selectable in 0.3EV, 0.5EV or 1EV increments.	30-1/4,000 sec. & Bulb, manually selectable in 0.3EV or 0.5EV increments.	30-1/4,000 sec. & Bulb, manually selectable in 0.3EV increments.	30-1/8,000 sec. & Bulb, manually selectable in 0.3EV, 0.5EV or 1EV increments.	30-1/8,000 sec. & Bulb, manually selectable in 0.3EV, 0.5EV or 1EV increments.	30-1/4,000 sec. & Bulb, manually selectable in 0.5EV increments.	30-1/2000 sec. & Bulb, manually selectable in 0.5EV increments.	30 -1/2000 sec. & Bulb, manually selectable in 0.5EV increments.	30-1/2000 sec. & Bulb, manually selectable in 0.5EV increments.
Maximum Flash Synchronization Speed	1/250 sec.; high-speed sync. available with EX-series Speedlites.	1/250 sec.; high-speed sync. available with EX-series Speedlites.	1/200 sec.; high-speed sync. available with EX-series Speedlites.	1/200 sec.; high-speed sync. available with EX-series Speedlites.	1/250 sec.; high-speed sync. available with EX-series Speedlites.	1/200 sec.; high-speed sync. available with EX-series Speedlites.	1/125 sec.; high-speed sync. available with EX-series Speedlites.	1/90 sec.; high-speed sync. available with EX-series Speedlites.	1/90 sec.; high-speed	1/90 sec.; high-speed sync. available with EX-series Speedlites.
Film / Media	Digital images are stored on removable CompactFlash™ card, Type I or II.	Digital images are stored on removable CompactFlash™ (Type I or II) or SD memory card.	Digital images are stored on removable CompactFlash™ card, Type I or II.	Digital images are stored on removable CompactFlash™ card, Type I or II.	Automatic. Film automatically advances to the first frame.	Automatic. Film automatically advances to the first frame.	Automatic. Film automatically advances to the first frame.	Film automatically prewound to the end of the roll when loaded, rewinds one frame at a time during shooting.	Film automatically prewound to the end of the roll when loaded, rewinds one frame at a time during shooting.	Film automatically prewound to the end of the roll when loaded, rewinds one frame at a time during shooting.
Frames Per Second	Single, 3 fps.	Single, 3 fps and 8.5 fps.	Single and 3 frames/sec.	Single and 2.5 frames/sec.	Single and 3.5 frames/sec. (Single, 3.5 frames/sec. and up to 10 frames/sec. with PB-E2/NP-E2) (Single, 3.5 frames/sec. and up to 10 frames/sec. with EOS-1v HS, with optional NP-E2)	Single and 4.3 frames/sec. (Single, 3.0 frames/sec., and up to 7 frames/sec. with PB-E2 and NP-E2 Battery Pack)	Single and up to 4 frames/sec.	Single and 2.5 frames/sec.	Single and 1.5 frames/sec.	Single and 1.0 frames/sec.
Film Rewind	N/A	N/A	N/A	N/A	Automatic. Film automatically rewinds at end of roll. Choice of high-speed or silent rewind.	Automatic. Film automatically rewinds at end of roll. Choice of high-speed or silent rewind.	Automatic. Film automatically rewinds at end of roll. Choice of high-speed or silent rewind.	Automatic. Film automatically rewinds at end of roll. Mid-roll rewind possible.	Automatic. Film automatically rewinds at end of roll. Mid-roll rewind possible.	Automatic. Film automatically rewinds at end of roll. Mid-roll rewind possible.
Metering System	TTL full aperture metering: • 21-zone evaluative metering • 8.5% partial area metering • 2.4% centre spot metering • 2.4% spot metering (linked to user selected focusing point) • Multi-spot metering (up to 8 spot readings) • Centre-weighted average metering • Pre-flash metering (E-TTL)	TTL full aperture metering: • 21-zone evaluative metering • 13.5% partial area metering • 3.8% centre spot metering • 3.8% spot metering (linked to user selected focusing point) • Multi-spot metering (up to 8 spot readings) • Centre-weighted average metering • Pre-flash metering (E-TTL II)	TTL full aperture metering: • 35-zone evaluative metering • Centre-weighted average metering • 9% partial area metering • Pre-flash metering (E-TTL)	TTL full aperture metering: • 35-zone evaluative metering • Centre-weighted average metering (available in manual exposure mode) • 9% partial area metering • Pre-flash metering (E-TTL)	TTL full aperture metering: • 21-zone evaluative metering • Centre-weighted average metering • 8.5% partial area metering • 2.4% centre spot metering linked to user selected focusing point • Multi-spot metering (up to 8 spot readings) • Pre-flash metering (E-TTL) • 3-zone off-the-film TTL flash metering	TTL full aperture metering: • 21-zone evaluative metering • 8.5% partial area metering • 2.4% centrespot metering • 2.4% spot metering (linked to user selected focusing point • Multi-spot metering (up to 8 spot readings) • Centre-weighted average metering • Pre-flash metering (E-TTL) • 3-zone off-the-film TTL flash metering	TTL full aperture metering: • 35-zone evaluative metering • Centre-weighted average metering • 10% partial area metering • TTL/A-TTL autoflash • Pre-flash metering (E-TTL II) • 3-zone off-the-film TTL flash metering	TTL full aperture metering: • 35-zone evaluative metering • 8.5% partial area metering • Centre-weighted average metering (in manual mode only) • Pre-flash metering (set automatically with E-TTL when mounting EX-series Speedlite)	TTL full aperture metering: • 35-zone spac evaluative metering • 9.5% partial area metering • Centre-weighted average metering (in manual mode only) • Pre-flash metering (set automatically with E-TTL when mounting EX-series Speedlite)	TTL full aperture metering: • 6-zone evaluative metering • 9.5% partial area metering • Centre-weighted average metering (in manual mode only) • Pre-flash metering (set automatically with E-TTL when mounting EX-series Speedlite)
Metering Sensitivity	EV 0-20 for all patterns (at ISO 100 with f/1.4).	EV 0-20 for all patterns (at ISO 100 with f/1.4).	EV 1-20 for all patterns (at ISO 100 with f/1.4).	EV 1-20 for all patterns (at ISO 100 with f/1.4).	EV 0-20 for all patterns (at ISO 100 with f/1.4).	EV 0-20 for all patterns (at ISO 100 with f/1.4).	EV 1-20 for all patterns (at ISO 100 with f/1.4).	EV 1-20 (at ISO 100 with f/1.4)	EV 1-20 (at ISO 100 with f/1.4)	EV 2-20 (at ISO 100 with f/1.4)
Exposure Compensation	±3 steps in 0.3EV or 0.5EV increments	±3 steps in 0.3EV or 0.5EV increments	±2.0 steps in 0.3EV or 0.5EV increments	±2.0 steps in 0.3EV increments	±3 steps in 0.3EV or 0.5EV increments	±3 steps in 0.3 EV or 0.5EV increments	±2 steps in 0.5 EV increments	±2 steps in 0.5 EV increments	±2 steps in 0.5 EV increments	±2 steps in 0.5 EV increments
Flash Exposure Compensation	±3 steps in 0.3EV or 0.5EV increments	±3 steps in 0.3EV or 0.5EV increments	±2.0 steps in 0.3EV or 0.5EV increments	N/A	±3 steps in 0.3EV or 0.5EV increments (works with all EOS Speedlites)	±3 steps in 0.3EV or 0.5EV increments (works with all EOS Speedlites)	±2 steps in 0.5EV increments (works with all EOS Speedlites)	N/A	N/A	N/A
AE Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Exposure Modes	• Shutter-priority AE • Aperture-priority AE • Depth-of-field AE • Intelligent Program AE with variable shift • Manual • E-TTL Flash AE • Flash Metered Manual • Bulb	• Shutter-priority AE • Aperture-priority AE • Flash Metered Manual • Bulb • Manual • E-TTL II Flash AE • Intelligent Program AE with variable shift	• Shutter-priority AE • Aperture-priority AE • Auto depth-of-field AE • Intelligent Program AE with variable shift • Manual • E-TTL Flash AE • Bulb • Programmed Image Control (8 settings) • Full Auto Mode	• Shutter-priority AE • Aperture-priority AE • Auto depth-of-field AE • Intelligent Program AE with variable shift • Manual • E-TTL Flash AE • Bulb • Programmed Image Control (6 settings) • Full Auto Mode	• Shutter-priority AE • Aperture-priority AE • Depth-of-field AE • Intelligent Program AE with variable shift • Manual • E-TTL, A-TTL, TTL Flash AE • Bulb	• Shutter-priority AE • Aperture-priority AE • Depth-of-field AE • Intelligent Program AE with variable shift • Manual • E-TTL, A-TTL,TTL Flash AE • Bulb	• Intelligent Program AE • Shutter-priority AE • Aperture-priority AE • Depth-of-field AE • Full Auto Mode • Programmed Image Control (8 settings) • Metered Manual • E-TTL II, A-TTL, TTL Program Flash AE	• Intelligent Program AE with variable shift • Shutter-priority AE • Aperture-priority AE • Auto depth-of-field AE • Programmed Image Control (7 settings) • Metered manual • E-TTL, A-TTL, TTL Program Flash AE	• Intelligent program AE with variable shift • Shutter-priority AE • Aperture-priority AE • Auto depth-of-field AE • Programmed Image Control (7 settings) • Metered manual • E-TTL, A-TTL, TTL Program Flash AE	• Intelligent program AE with variable shift • Shutter-priority AE • Aperture-priority AE • Auto depth-of-field AE • Programmed Image Control (6 settings) • Metered manual • E-TTL, A-TTL, TTL Program Flash AE
Viewfinder	Fixed eye-level pentaprism.	Fixed eye-level pentaprism.	Fixed eye-level pentaprism.	Fixed eye-level pentamirror.	Fixed eye-level pentaprism.	Fixed eye-level pentaprism.	Fixed eye-level pentaprism.	Fixed eye-level pentamirror.	Fixed eye-level pentamirror.	Fixed eye-level pentamirror.
Viewfinder Coverage	100% horizontal and vertical at 0.7x	100% horizontal and vertical at 0.72x	95% horizontal and vertical at 0.88x	95% horizontal and vertical at 0.8x	100% horizontal and vertical at 0.72x	97% horizontal and vertical at 0.72x	92% horizontal and 90% vertical at 0.70x	90% horizontal and vertical at 0.70x	90% horizontal and vertical at 0.70x	90% horizontal and vertical at 0.70x
Viewfinder Information	Inside the picture area: Area AF ellipse, illuminated AF frames and spot metering circle. Displayed at the bottom and right side of the viewing area: • Shutter speed • Aperture value • AE Lock/FE Lock • Depth-of-field AE • Manual exposure level • JPEG indication • Remaining frames in burst • Multi Spot readings • Exposure compensation / Flash compensation • ISO Speed • Exposure level/Flash exposure level • Hi-speed flash sync	Inside the picture area: Area AF ellipse, illuminated AF frames and spot metering circle. Displayed at the bottom and right side of the viewing area: • Shutter speed • Aperture value • AE Lock/FE Lock • Depth-of-field AE • Manual exposure level • Remaining frames in burst • Multi Spot readings • White Balance */- • Exposure compensation / Flash compensation • ISO Speed • Exposure level / Flash exposure level • JPEG indication • Hi-speed flash sync	Inside the picture area: 7 focusing points, plus 9% partial metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD. • Shutter speed • Aperture value • AE Lock/FE Lock • Exposure level scale • Flash status • FP mode indicator (High-speed sync) • AF-in-focus indicator • Remaining frames in burst	Inside the picture area: 7 focusing points, plus 9% partial metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD. • Shutter speed • Aperture value • AE Lock/FE Lock • Exposure level scale • Flash status • FP mode indicator (High-speed sync) • AF-in-focus indicator • Remaining frames in burst	Inside the picture area: Area AF ellipse, illuminated AF frames and fine spot metering circle. Displayed at the bottom and right side of the viewing area: LCD numerals, 2 analogue scales and text display. • Shutter speed • Aperture value • Depth-of-field AE • AE Lock/FE Lock • Flash charge completion indicator • High-speed sync indicator • Exposure level scale • Flash exposure level scale • Remaining frame indicator - double digit • Manual exposure mode indicator • Multi Spot readings	Inside the picture area: Area AF ellipse and fine spot metering circle. Displayed at the bottom and right side of the viewing area: LCD numerals, 2 analogue scales and text display. • Shutter speed • Aperture value • Depth-of-field AE • AE Lock/FE Lock • Calibration indicator • Eye-Controlled Focus indicator • Flash charge completion indicator • High-speed sync indicator • Exposure level scale • Flash exposure level scale • Remaining frame indicator - double digit • Multi Spot readings	Inside the picture area: 7 focusing points. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD display. • Shutter speed • Aperture value • Exposure level scale • Flash status • FP mode indicator (Hi-speed sync) • Eye Control icon (30V only) • Flash compensation indicator • AF-in-focus indicator	Viewfinder Information: Inside the picture area: 7 focusing points, plus 9.5% partial metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD. • Shutter speed • Aperture value • AE Lock/FE Lock • Exposure level scale • Flash status • FP mode indicator (Hi-speed sync) • In-focus indicator	Viewfinder Information: Inside the picture area: 7 focusing points, plus 9.5% partial metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD. • Shutter speed • Aperture value • AE Lock/FE Lock • Exposure level scale • Flash status • FP mode indicator (Hi-speed sync) • In-focus indicator • Active AF point indicator	Viewfinder Information: Inside the picture area: 3 focusing points, plus 9.9% partial metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD. • Shutter speed • Aperture value • AE Lock/FE Lock • Exposure level scale • Flash status • FP mode indicator (Hi-speed sync) • In-focus indicator • Active AF point indicator
Focusing Screens	Laser-matte screen Ec-C III, with area AF ellipse, and fine spot metering circle provided as the standard screen. (Interchangeable with Ec-series focusing screens. Metering correction data can be set with a Custom Function for the Laser-matte and New Laser-matte screens.)	Laser-matte screen Ec-C III, with area AF ellipse, and fine spot metering circle provided as the standard screen. (Interchangeable with Ec-series focusing screens. Metering correction data can be set with a Custom Function for the Laser-matte and New Laser-matte screens.)	New laser-matte screen marked with focusing points and partial metering circle. (Non-interchangeable)	New laser-matte screen marked with focusing points and partial metering circle. (Non-interchangeable)	Laser-matte screen Ec-C III, with area AF ellipse, and fine spot metering circle provided as the standard screen. (Interchangeable with Ec-series focusing screens. Metering correction data can be set with a Custom Function for the Laser-matte and New Laser-matte screens.)	New Laser-matte screen Ec-N, with area AF ellipse and fine spot metering circle. (Compatible with all Ec-series focus screens; Metering calibration can be set with a Custom Function for Laser-Matte and New Laser-Matte screens.)	New laser-matte screen marked with focusing points. (Non-interchangeable)	New laser-matte screen marked with focusing points. (Non-interchangeable)	New laser-matte screen marked with focusing points. (Non-interchangeable)	New laser-matte screen marked with focusing points. (Non-interchangeable)
Self-Timer	Electronically controlled with 2- or 10-second delay.	Electronically controlled with 2- or 10-second delay.	Electronically controlled with 10-second delay.	Electronically controlled with 10-second delay.	Electronically controlled with 2- or 10-second delay.	Electronically controlled with 2- or 10-second delay.	Electronically controlled with 10-second delay.	Electronically controlled with 10-second delay.	Electronically controlled with 10-second delay.	Electronically controlled with 10-second delay.
Body Dimensions (W x H x D)	156 x 157.6 x 79.9mm	156 x 157.6 x 79.9mm	149.7 x 107.5 x 75mm	142 x 99 x 72.4mm	161 x 120.8 x 70.8mm (EOS-1v) 161 x 164.3 x 82.5mm (EOS-1v HS)	161 x 119.2 x 70.8mm	146.7 x 103 x 69mm	130 x 88 x 64mm	130 x 88 x 64mm	145 x 92 x 61.9mm
Weight (Body Only)	1,265g	1,220g	790g	560g	945g (EOS-1v) 1,380g (EOS-1v HS)	780g	575g (EOS 30V/33V)	365g	340g	350g

*TTL-CT-SIR (Through-the-Lens Cross-Type Secondary-Image-Registration)

EOS SYSTEM CHART



EF LENSES

Note: Lenses are not to scale.

Ultra-Wide Zoom

EF 16-35mm f/2.8L USM
ULTRASONIC

EF 17-40mm f/4L USM
ULTRASONIC

EF 20-35mm f/3.5-4.5 USM
ULTRASONIC

Standard Zoom

EF-S 18-55mm f/3.5-5.6
Available only with the EOS 300D Kit. Compatible only with EOS 300D.

EF 24-70mm f/2.8L USM
ULTRASONIC

EF 24-85mm f/3.5-4.5 USM
ULTRASONIC

EF 28-80mm f/3.5-5.6 II

EF 28-90mm f/4-5.6 II USM
ULTRASONIC

EF 28-90mm f/4-5.6 II

EF 28-105mm f/4-5.6 USM
ULTRASONIC

EF 28-105mm f/4-5.6

EF 28-135mm f/3.5-5.6 IS USM
ULTRASONIC
IMAGE STABILIZER

EF 35-80mm f/4-5.6 III

Telephoto Zoom

EF 28-300mm f/3.5-5.6L IS USM
ULTRASONIC
IMAGE STABILIZER

EF 55-200mm f/4-5.6 II USM
ULTRASONIC

EF 70-200mm f/2.8L IS USM
ULTRASONIC
IMAGE STABILIZER

EF 70-200mm f/2.8L USM
ULTRASONIC

EF 70-200mm f/4L USM
ULTRASONIC

EF 70-300mm f/4.5-5.6 DO IS USM
ULTRASONIC
IMAGE STABILIZER
DIFFRACTIVE OPTICS

EF 75-300mm f/4-5.6 IS USM
ULTRASONIC
IMAGE STABILIZER

EF 90-300mm f/4-5.6 USM
ULTRASONIC

EF 90-300mm f/4-5.6

EF 80-200mm f/4.5-5.6 II

EF 100-300mm f/4.5-5.6 USM
ULTRASONIC

EF 100-400mm f/4.5-5.6L IS USM
ULTRASONIC
IMAGE STABILIZER

Wide-Angle

EF 14mm f/2.8L USM
ULTRASONIC

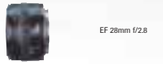
Fish-eye EF 15mm f/2.8

EF 20mm f/2.8 USM
ULTRASONIC

EF 24mm f/1.4L USM
ULTRASONIC

EF 24mm f/2.8

EF 28mm f/1.8 USM
ULTRASONIC



EF 28mm f/2.8

EF 35mm f/1.4L USM
ULTRASONIC

EF 35mm f/2.0

Standard & Medium Telephoto

EF 50mm f/1.4 USM
ULTRASONIC

EF 50mm f/1.8 II

EF 85mm f/1.2L USM
ULTRASONIC

EF 85mm f/1.8 USM
ULTRASONIC

EF 100mm f/2 USM
ULTRASONIC

Telephoto

EF 135mm f/2L USM
ULTRASONIC

EF 135mm f/2.8 w/ Soft Focus

EF 200mm f/2.8L II USM
ULTRASONIC

EF 300mm f/2.8L IS USM
ULTRASONIC
IMAGE STABILIZER

EF 300mm f/4L IS USM
ULTRASONIC
IMAGE STABILIZER

EF 1200mm f/5.6L USM
ULTRASONIC

EF 400mm f/2.8L IS USM
ULTRASONIC
IMAGE STABILIZER

EF 400mm f/4 DO IS USM
ULTRASONIC
IMAGE STABILIZER
DIFFRACTIVE OPTICS

EF 400mm f/5.6L USM
ULTRASONIC

EF 500mm f/4L IS USM
ULTRASONIC
IMAGE STABILIZER

EF 600mm f/4L IS USM
ULTRASONIC
IMAGE STABILIZER

Macro Lenses

EF 50mm f/2.5 Compact Macro

Life Size Converter EF

MP-E 65 mm f/2.8 1-5x Macro Photo

EF 100mm f/2.8 Macro USM
ULTRASONIC

EF 180mm f/3.5L Macro USM
ULTRASONIC

TS-E Lenses

TS-E 24mm f/3.5L Tilt-Shift

TS-E 45mm f/2.8 Tilt-Shift

TS-E 90mm f/2.8 Tilt-Shift

Tele-Extenders

Extender EF 1.4x II

Extender EF 2x II

Extension Tubes

Extension Tube EF 12 II

Extension Tube EF 25 II

CANON LENS TECHNOLOGY

Canon EF Lens: The Heart of the EOS System

At the core of the EOS system, Canon's renowned EF lens series offers infinite choices and features for any project, and any budget. With over 50 lenses ranging from fisheye to super-telephoto, with both fixed-length and zoom lenses to fit any photographer's needs, EF lenses have proven their worth in every photographic context.

Canon designs and manufactures each of their lenses to provide high image quality throughout the entire image area, with natural background blur, and consistent colour regardless of the lens chosen. All Canon EF lenses are designed to be quick, quiet, and highly reliable. With these priorities in mind, Canon's designs have remained on the cutting edge of technological innovation – if a technology does not exist, Canon invents it. Here's a closer look at some of the technologies that Canon has incorporated into their EF lenses.

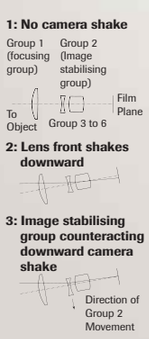
Image Stabilizer

Canon's Image Stabilizer (IS) technology makes hand-held photography possible in more low-light situations than ever before. When camera shake occurs using normal lenses without Image Stabilizer technology, the image

with Image Stabilizer OFF

Image Stabilizer ON

projected to the focal plane also shakes, often resulting in blurred images at shutter speeds less than 1/focal length. When this same movement occurs with an IS lens attached, a special group of lens elements automatically shifts its position, thereby compensating for the shake and stabilising the image. Here's how Canon's original Image Stabilizer technology works:

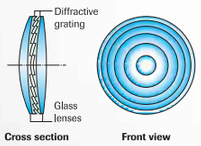


How the Image Stabilizer Works

A high-speed microcomputer built into the lens analyses electronic signals emitted by vibration-detecting gyro sensors and controls a mechanism that moves the image stabilising lens group parallel to the focal plane, resulting in a sharper image. This compensation effectively adds up to three shutter speed steps to your hand-held shooting capability, depending on the IS lens you choose. Canon's IS lenses are perfect for low light, or situations where a tripod is not convenient.

Diffractive Optics

Canon's use of diffractive optics result in lenses that are both high performance and more compact than those with traditional refractive designs. While conventional glass lens elements disperse incoming light, thereby causing chromatic aberration, Canon's unique multi-layer diffractive elements work together with conventional glass optics to cancel the effects of dispersion and minimise or eliminate chromatic aberration. Here's how it works: Diffractive coatings are bonded to the rear surface of one lens element and the front surface of another. These elements are attached to each other to form a single multi-layer diffractive optics (DO).



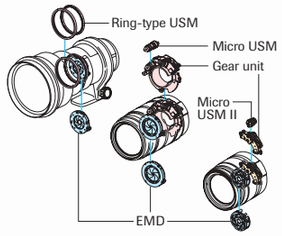
multi-layer DO element construction

The DO element's dispersion characteristics are reversed when compared with conventional optics, making it possible to cancel chromatic aberrations at each wavelength when conventional and DO elements are combined. In addition to chromatic aberration correction, this technology also results in smaller lenses, with no compromise in quality. For example, the EF 400mm f/4 DO IS USM lens is approximately 27% shorter and 36% lighter in weight than a conventional 400mm f/4 telephoto lens would be, yet the quality of the resulting image is comparable with one that an L-series lens would produce.

EF 400mm f/4 IS DO USM •f/4 •1/1250 sec.

Ultrasonic Motor

In order to achieve critical autofocus, the elements within a camera lens have to move quickly, quietly and precisely. With this in mind, Canon developed the world's first lens-based Ultrasonic Motor (USM), which spins the lens motor with ultrasonic oscillation energy. Instead of a large, noisy drive-train system, electronic vibrations created by piezoelectric ceramic elements power the mechanical action of the lens,



various lens actuators

providing constant torque, with virtually instantaneous stops and starts. USM lenses are both faster and quieter than conventional motor-driven autofocus systems, and draw minimal power from the camera, draining far less critical battery power.

ring-type USM

micro USM

Canon makes two types of Ultrasonic lenses. Ring-type USM-equipped lenses, found in large aperture and super telephoto designs, allow manual focusing without switching out of the auto mode. Micro USM designs bring the performance benefits of Canon's USM technology to a wide assortment of affordable EF lenses.

L-Series Lenses

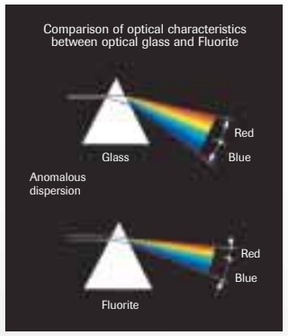
No lenses have a better reputation among professional photographers than those in Canon's L-series. Identifiable by a bold red ring around the outer barrel, these lenses are distinctive in their performance through use of optical technologies like Ultra-low Dispersion UD glass, Fluorite and Aspherical elements and Super Spectra Coating.

FLUORITE/UD ELEMENTS

Avoiding colour fringing, or chromatic aberration, has been one of the great challenges in the design of telephoto lenses. L-series telephoto lenses like the EF 70-200mm f/2.8L IS USM and EF 300mm f/4.0L IS USM utilise Canon's Ultra-low Dispersion glass to minimise this effect. The design of UD glass provides outstanding

contrast and sharpness and minimises the splitting of colours as they pass through the elements, resulting in cleaner colour throughout the image.

Even more effective at suppressing chromatic aberration are Fluorite elements, used in high-end super-telephoto lenses like the EF 300mm f/2.8L IS USM and EF 400mm f/2.8L IS USM. A single Fluorite element has the corrective power of two UD glass elements, giving these L-series lenses their spectacular performance and relatively compact design.



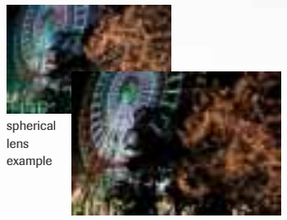
fluorite and UD glass

Aspherical Elements

Wide-angle lenses and fast normal focal-length lenses often suffer from another optical problem; spherical aberration. Spherical aberration occurs when the point of focus of the

spherical aberration of spherical lens

convergence of parallel light rays by an Aspherical lens



spherical lens example

aspherical lens example

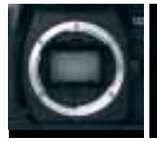
light ray coming through the centre of the lens does not align with the point of focus of the light ray coming through the lens edge. Since there is no sharp point of focus, the image looks blurred. Canon's Aspherical elements change the curvature from centre to edge, to align the points of focus of the incoming light rays so that the entire image plane appears focused. Aspherical optics also help to correct curvilinear distortion as one would find in ultra-wide-angle lenses. Finally, Aspherical elements have an extremely precise variable curvature of one or both sides, allowing for more compact and lighter lens designs.

Canon's exclusive Super Spectra Coating and anti-reflective material inside of lens barrels virtually eliminate internal ghosting and flare in all L-series lenses. Weather sealing

keeps dust out, and allows for photography in less-than-perfect weather conditions.

EF Mount

In designing the EF lens mount, Canon engineers gave photographers a lot more than simply a way to quickly attach an interchangeable lens to a camera body. As the communication conduit between camera and lens, the fully electronic mount system has none of the shock, operational noise, abrasion, play, lubrication requirements, slow response, or diminished precision caused by lever operation, or design restrictions related to linkage mechanisms used to transfer data. A lens operation self-test system, using the lens's built-in microcomputer, can even warn of malfunctions through the camera's LCD readout to help ensure high reliability.



electronic mount - camera side

electronic mount - lens side

The EF mount allows for high-speed focus, precise aperture control and preview, automatic compensation with lens extenders, and forward compatibility with new lens technologies like USM, IS and more, as they are developed by Canon.

Specialty Lenses

Canon's EF Lens system includes many special purpose lenses, ranging from full-frame fisheye, Tilt Shift, macro, and everything in between.

FISHEYE

Perfect for super wide-angle and special effect photography, Canon's full-frame fisheye can focus as close as eight inches (0.2m), and is tack-sharp throughout its focus range. Up to three gel filters can be inserted into its built-in rear filter holder.

EF 15mm f/2.8 Fisheye •f/16 •1/640 sec.

MACRO

To bring small things into full-sized view, Canon's EF lens lineup has a number of options for true close-up and macro photography. With four macro lenses for precision, and three screw-on Close-up Lenses for convenience, in addition to Life-Size Converter EF and two Extension Tubes, Canon's macro lenses and close-up accessories can uncover

EF 100mm f/2.8 Macro USM •f/5.6 •1/6 sec.

detail that would be impossible to detect by the eye and give new perspective to extremely minute subjects such as insects or the petals of a small flower.

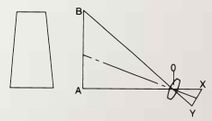
TS-E LENS MOVEMENTS

TS-E lenses are capable of tilt and shift movements, which greatly expand picture-taking possibilities, bringing many of the advantages of technical view cameras to the EOS system. Tilt movements alter the angle of the plane of focus between the lens and film plane, making broad depth-of-field possible even at large apertures or vice versa; shift movements move the lens's optical axis in parallel, allowing the photographer to change or correct the perspective of their photograph at almost any angle.

without Tilt Shift Lens

with Tilt Shift Lens

With a normal lens



With a TS-E lens

using shift movements to focus tall building

EF LENS SPECIFICATIONS

CANON EF LENS	Angle of View Diagonal	Lens Construction (elements/groups)	Minimum Aperture	Closest Focusing Distance (m/ ft)	Focus Drive	Filter Diameter (mm)	Max. Diameter x Length (mm/in)	Weight (g/oz)	Lens Hood	Lens Cap	Soft Case
ULTRA-WIDE ZOOM											
•**EF 16–35mm f/2.8L USM**	98°~ 54° • 74°10′~ 38° • 108°10′~ 63°	14 / 10	22	0.28 / 0.9	USM	77	83.5 / 3.3 x 103 / 4.1	600 / 1.3 lb.	EW-83E	E-77U	LP1319
•**EF 17–40mm f/4L USM**	84°~ 34° • 53°~ 19° 30′ • 74°~ 29°	12 / 9	22	0.28 / 0.92	Ring USM*1	77	83.5 / 3.3 x 96.8 / 3.8	500 / 17.6	EW-83E	E-77U	LP1319
•**EF 20–35mm f/3.5–4.5 USM**	84°~ 54° • 62°~ 38° • 94°~ 63°	12 / 11	22 ~ 27	0.34 / 1.1	USM*1	77	83.5 / 3.3 x 68.9 / 2.7	340 / 12.0	EW-83II	E-77U	LP1214
STANDARD ZOOM											
EF-S 18–55mm f/3.5–5.6**	65° 30′ ~ 23° 20′• 45° 30′ ~ 15° 40′ • 75° 20′ ~ 75° 50′	11 / 9	22 ~ 38	0.28 / 0.92	MM	58	69 / 2.7 x 66.2 / 2.6	190 / 6.7	EW-60C	E-58U	LP814
•**EF 24–70mm f/2.8L USM**	84°~ 34° • 53°~ 19°30′ • 74°~ 29°	16 / 13	22	0.38 / 1.25	USM*1	77	83.2 / 3.3 x 123.5 / 4.9	950 / 2.1	EW-83F	E-77U	LP1219
•**EF 24–85mm f/3.5–4.5 USM**	74°~ 24° • 53°~ 16° • 84°~ 28°30′	15 / 12	22 ~ 32	0.5 / 1.6	USM*1	67	73.0 / 2.9 x 69.5 / 2.7	380 / 13.4	EW-73II	E-67U	ES-C9 / LP1014
EF 28–80mm f/3.5–5.6 II	75°~ 30° • 46°~ 17° • 65°~ 25°	10 / 10	22 ~ 38	0.38 / 1.25	MM*2	58	67 / 2.6 x 71 / 2.8	200 / 7.8	EW-60C	E-58	LP814
EF 28–90mm f/4–5.6 II USM	65°~ 22°40′ • 46°~ 15°10′ • 75°~ 27°	10 / 8	22 ~ 32	0.38 / 1.3	Micro USM	58	67 / 2.6 x 71 / 2.8	190 / 6.7	EW-60C	E-58U	LP814
EF 28–90mm f/4–5.6 II	65°~ 22°40′ • 46°~ 15°10′ • 75°~ 27°	10 / 8	22 ~ 32	0.38 / 1.3	MM	58	67 / 2.6 x 71 / 2.8	190 / 6.7	EW-60C	E-58	LP814
•**EF 28–105mm f/4–5.6 II USM**	65°~ 22°40′ • 46°~ 15°10′ • 75°~ 27°	10 / 8	22 ~ 32	0.48 / 1.57	Micro USM	58	67 / 2.6 x 68 / 2.7	180 / 6.3	EW-60C	E-58U	LP814
•**EF 28–105mm f/4–5.6 USM**	65°~ 22°40′ • 46°~ 15°10′ • 75°~ 27°	10 / 8	22 ~ 32	0.38 / 1.3	MM	58	67 / 2.6 x 71 / 2.8	180 / 6.3	EW-60C	E-58U	LP814
•**EF 28–135mm f/3.5–5.6 IS USM**	65°~ 15° • 46°~ 10° • 75°~ 18°	16 / 12	22 ~ 36	0.5 / 1.64	USM*1	72	78.4 / 3.1 x 96.8 / 3.8	540 / 18.9	EW-78BII	E-72U	LP1116
EF 35–80mm f/4–5.6 III	54°~ 25° • 38°~ 17° • 63°~ 30°	8 / 8	22 ~ 32	0.4 / 1.3	MM*2	52	65.0 / 2.6 x 63.5 / 2.5	175 / 6.2	EW-54II	E-52	ES-C9 / LP814
TELEPHOTO ZOOM											
•**EF 28–300mm f/3.5–5.6L IS USM**	65° • 46° • 75°	22 / 16	22	0.7 / 2.3	Ring USM	77	92 / 3.6 x 184 / 72	1,670 / 58.9	EW-836'	E-77V	LZ1324
EF 55–200mm f/4.5–5.6 II USM	36°~ 10° • 25°~ 7° • 43°~ 12°	13 / 13	22 ~ 27	1.2 / 3.9	Micro USM	52	70.4 / 2.8 x 97.3 / 3.8	310 / 10.9	ET-54	E-52U	LP1016
•**EF 70–200mm f/2.8L IS USM**	29°~ 10° • 19°30′~ 7° • 34°~ 12°	23 / 18	32	1.4 / 4.6	USM	77	86.2 / 3.4 x 197 / 7.8	1,470 / 3.24 lb.	ET-86	E-77U	LZ1324
•**EF 70–200mm f/2.8L USM**	29°~ 10° • 19°30′~ 7° • 34°~ 12°	18 / 15	32	1.5 / 4.9	USM*1	77	84.6 / 3.3 x 193.6 / 7.6	1,310 / 2.9 lb.	ET-83II	E-77U	LZ1324
•**EF 70–200mm f/4L USM**	29°~ 10° • 19°30′~ 7° • 34°~ 12°	16 / 13	32	1.2 / 3.9	USM*1	67	76 / 3.0 x 172 / 6.8	705 / 25	ET-74	E-67U	LP1224
•**EF 70–300mm f/4–5.6 DO IS USM**	29° • 19° • 34°	18 / 12	32	1.4 / 4.6	Ring USM	58	82.4 / 3.2 x 99.9 / 3.9	720 / 25.4	ET-653	E-58U	LP1116
EF 75–300mm f/4–5.6 IS USM	27°~ 6°50′ • 18°11′~ 4°35′ • 32°11′~ 8°15′	15 / 10	32 ~ 45	1.5 / 4.9	Micro USM	58	78.5 / 3.1 x 137.2 / 5.4	650 / 1.4 lb.	ET-64II	E-58U	LP1022
EF 90–300mm f/4–5.6 USM	22°40′~ 6°50′ • 15°10′~ 4°35′ • 27°~ 8°15′	13 / 9	38 ~ 45	1.5 / 4.9	Micro USM	58	71 / 2.8 x 114.7 / 4.5	190 / 14.8	ET-60	E-58U	LP1019
EF 90–300mm f/4–5.6	22°40′~ 6°50′ • 15°10′~ 4°35′ • 27°~ 8°15′	13 / 9	38 ~ 45	1.5 / 4.9	MM	58	71 / 2.8 x 114.7 / 4.5	190 / 14.8	ET-60	E-58	LP1019
EF 80–200mm f/4.5–5.6 II	25°~ 10° • 17°~ 7° • 30°~ 12°	10 / 7	22 ~ 27*3	1.5 / 4.9	MM*2	52	69.0 / 2.7 x 78.5 / 3.1	250 / 8.8	ET-54	E-52	ES-C13 / LP1014
•**EF 100–300mm f/4.5–5.6 USM**	20°~ 6°50′ • 14°~ 4°35′ • 24°~ 8°15′	13 / 10	32 ~ 38*3	1.5 / 4.9	USM*1	58	73.0 / 2.9 x 121.5 / 4.8	540 / 1.2 lb.	ET-65III	E-58U	ES-C17 / LP1019
•**EF 100–400mm f/4.5–5.6L IS USM**	20°~ 5°10′ • 14°~ 3°30′ • 24°~ 6°10′	17 / 14	32 ~ 38*3	1.8 / 5.9	USM*1	77	92.0 / 3.6 x 189.0 / 7.4	1,380 / 3.0 lb.	ET-83C	E-77U	LZ1324
WIDE-ANGLE											
•**EF 14mm f/2.8L USM**	104° • 81° • 114°	14 / 10	22	0.25 / 0.8	USM*1	Rear Gel Holder	77.0 / 3.0 x 89.0 / 3.5	560 / 1.2 lb.	Built-In	Exclusive	ES-C13 / LP1016
EF 15mm f/2.8 Fisheye	141°54′ • 91°44′ • 180°	8 / 7	22	0.2 / 0.7	AFD	Rear Gel Holder	73.0 / 2.9 x 62.2 / 2.4	330 / 11.6	Built-In	E-73	ES-C9 / LP814
•**EF 20mm f/2.8 USM**	84° • 62° • 94°	11 / 9	22	0.25 / 0.8	USM*1	72	77.5 / 3.1 x 70.6 / 2.8	405 / 14.3	EW-75II	E-72U	LP1214
•**EF 24mm f/1.4L USM**	74° • 53° • 84°	11 / 9	22	0.25 / 0.82	USM*1	77	83.5 / 3.3 x 77A/ 3.0	550 / 19.4	EW-83DII	E-77U	LP1214
EF 24mm f/2.8	74° • 53° • 84°	10 / 10	22	0.25 / 0.8	AFD	58	67.5 / 2.7 x 48.5 / 1.9	270 / 9.5	EW-60II	E-58	ES-C9 / LP811
•**EF 28mm f/1.8 USM**	65° • 46° • 75°	10 / 9	22	0.25 / 0.8	USM*1	58	73.6 / 2.9 x 55.6 / 2.2	310 / 10.9	EW-63II	E-58U	ES-C9 / LP814
EF 28mm f/2.8	65° • 46° • 75°	5 / 5	22	0.3 / 1	AFD	52	67.4 / 2.7 x 42.5 / 1.7	185 / 6.5	EW-65II	E-52	ES-C9 / LP1011
•**EF 35mm f/1.4L USM**	54° • 38° • 63°	11 / 9	22	0.3 / 0.98	USM*1	72	79.0 / 3.1 x 86.0 / 3.4	580 / 20.5	EW-78C	E-72U	LP1214
EF 35mm f/2	54° • 38° • 63°	7 / 5	22	0.25 / 0.8	AFD	52	67.4 / 2.7 x 42.5 / 1.7	210 / 7.4	EW-65II	E-52	ES-C9 / LP1011
STANDARD											
EF 50mm f/1.4 USM	40° • 27° • 46°	7 / 6	22	0.45 / 1.5	Micro USM*1	58	73.8 / 2.9 x 50.5 / 2.0	290 / 10.2	ES-71II	E-58U	ES-C9 / LP1014
EF 50mm f/1.8 II	40° • 27° • 46°	6 / 5	22	0.45 / 1.5	MM*2	52	68.2 / 2.7 x 41.0 / 1.6	130 / 4.6	ES-62 with adapter ring	E-52	ES-C9 / LP1014
TELEPHOTO											
EF 85mm f/1.2L USM	24° • 16° • 28°30′	8 / 7	16	0.95 / 3.1	USM	72	91.5 / 3.6 x 84.0 / 3.3	1,025 / 2.3 lb.	ES-79II	E-72U	LP1219
•**EF 85mm f/1.8 USM**	24° • 16° • 28°30′	9 / 7	22	0.85 / 2.8	USM*1	58	75.0 / 3.0 x 71.5 / 2.8	425 / 15.0	ET-65III	E-58U	ES-C13 / LP1014
•**EF 100mm f/2 USM**	20° • 14° • 24°	8 / 6	22	0.9 / 3	USM*1	58	75.0 / 3.0 x 73.5 / 2.9	460 / 1.0 lb.	ET-65III	E-58U	ES-C13 / LP1014
•**EF 135mm f/2L USM**	15° • 10° • 18°	10 / 8	32	0.9 / 3	USM*1	72	82.5 / 3.2 x 112.0 / 4.4	750 / 1.7 lb.	ET-78II	E-72U	LP1219
EF 135mm f/2.8 with Softfocus	15° • 10° • 18°	7 / 6	32	1.3 / 4.3	AFD	52	69.2 / 2.7 x 98.4 / 3.9	390 / 13.8	ET-65III	E-52	ES-C13 / LP1016
•**EF 200mm f/2.8L II USM**	10° • 7° • 12°	9 / 7	32	1.5 / 4.9	USM*1	72	83.2 / 3.3 x 136.2 / 5.4	765 / 1.7 lb.	ET-83BII	E-72U	LP1222
•**EF 300mm f/4L IS USM**	6°50′ • 4°35′ • 8°15′	15 / 11	32	2.5/ 8.2	USM*1	52 Drop-in	128.0 / 5.0 x 252.0 / 9.9	2,550 /5.6 lb. (lens only)	ET-120	E-77U	–
•**EF 400mm f/5.6L USM**	5°10′ • 3°30′ • 6°10′	7 / 6	32	3 / 9.8	USM*1	52 Drop-in	163.0 / 6.4 x 349.0 / 13.7	5,370 / 11.8 lb.	ET-155	E-145	–
SUPER TELEPHOTO				4.5 / 14.8	USM*1	52 Drop-in	146.0 / 5.8 x 387.0 / 15.2	3,870 / 8.5 lb.	ET-138	E-163	–
•**EF 300mm f/2.8L IS USM**	6°50′ • 4°35′ • 8°15′	17 / 13	32	1.5/ 4.9	USM*1	77	90.0 / 3.5 x 221.0 / 8.7	1,190 /2.6 lb.	Built-In	E-77U	LZ1128
•**EF 400mm f/2.8L IS USM**	5°10′ • 3°30′ • 6°10′	17 / 13	32	3.5/11.48	USM	52 Drop-in	128.0 / 5.0 x 232.7 / 9.4	1,940 /4.3 lb	ET-120	E-180C	–
•**EF 400mm f/4.0L DO IS USM**	5°10′ • 3°30′ • 6°10′	17 / 13	32	3.5 / 11.5	USM*1	77	90.0 / 3.5 x 256.5/ 10.1	1,250 / 2.8 lb.	Built-In	E-145	LZ1132
•**EF 500mm f/4L IS USM**	4° • 2°45′ • 5°	17 / 13	32	5.5 / 18	USM*1	52 Drop-in	168.0 / 6.6 x 456.0 / 18.0	5,360 / 11.8 lb.	ET-160	E-185	–
•**EF 600mm f/4L IS USM**	3°30′ • 2°20′ • 4°10′	17 / 13	32	14 / 45.9	USM	48 Drop-in	228.0 / 9.0 x 836.0 / 32.9	16,500 / 36.4 lb.	Built-in	Exclusive	–
•**EF 1200mm f/5.6L USM**	1°45′ • 1°10′ • 2°05′	13 / 10	32	0.23 / 0.8	AFD	52	67.6 / 2.7 x 63.0 / 2.5	280 / 9.9	–	E-52	ES-C9 / LP814
MACRO LENSES											
EF 50mm f/2.5 Compact Macro	40° • 27° • 46°	9 / 8	32	0.24 / 0.8	–	–	67.6 / 2.7 x 34.9 / 1.4	160 / 5.6	–	R-F-3	ES-C9 / LP811
Life-Size Converter EF***	– • – • –	4 / 3	–	0.24 / 0.8	–	58	81.0 / 3.2 x 98.0 / 3.9	730 / 25.8 (lens only)	–	E-58	LP1216
•**MP-E65mm f/2.8 1-5x Macro***	15°40′ • 10°35′ • 18°40′	10 / 8	16	0.31 / 1	USM*1	58	79.0 / 3.1 x 119.0 / 4.7	600 / 21.1	ET-67	E-58U	LP1219
•**EF 100mm f/2.8 Macro USM**	20° • 14° • 24°	12 / 8	32	0.48 / 1.6	USM*1	72	82.5 / 3.2 x 186.6 / 7.3	1,090 / 2.4 lb.	ET-78II	E-72U	LZ1324
•**EF 180mm f/3.5L Macro USM**	11°25′ • 7°40′ • 13°40′	14 / 12	32	0.3 / 1	–	72	78.0 / 3.1 x 86.7 / 3.4	570 / 1.3 lb.	EW-75BII	E-72	LP1216
TILT SHIFT											
TS-E 24mm f/3.5L*	74°~ 53° • 84° (without tilt or shift)*7	11 / 9	22	0.4 / 1.3	–	72	81.0 / 3.2 x 90.1 / 3.5	645 / 1.4 lb.	EW-79BII	E-72	LP1216
TS-E 45mm f/2.8*	44°~ 33° • 51° (without tilt or shift)*7	10 / 9	22	0.5 / 1.6	–	58	73.6 / 2.9 x 88.0 / 3.5	565 / 1.2 lb.	ES-65III	E-58	LP1016
TS-E 90mm f/2.8*	22°37′~ 15°11′ • 27° (without tilt or shift)*7	6 / 5	32	– / –	–	–	72.8 / 2.9 x 27.2 / 1.1	220 / 7.8	–	Exclusive	LP811
EXTENDERS											
Extender EF 1.4x II**	– • – • –	5 / 4	–	– / –	–	–	71.8 / 2.8 x 57.9 / 2.3	265 / 9.3	–	Exclusive	LP811
Extender EF 2x II**	– • – • –	7 / 5	–	– / –	–	–	66.5 / 2.6 x 12.3 / 0.5	66 / 2.3	–	Exclusive	Exclusive
EXTENSION TUBES											
Extension Tube EF 12 II		*5		– / –	–	–	66.5 / 2.6 x 27.3 / 1.1	95 / 3.4	–	Exclusive	LP811
Extension Tube EF 25 II		*6									

For Best Results with your Canon EOS Camera Use Original Canon EF Lenses.

As an owner of a Canon EOS camera, you will achieve the best results in your photography using Canon's own EF lenses. Each EOS camera body and each EF lens has its own built-in micro computer. These micro computers store a range of special data to ensure the smooth operation of bodies and EF lenses which support two-way digital communications between each part to allow exchange of information. Since the EOS System's market launch in 1987, new functions have been added on a continuing basis. These improvements include adding Image Stabilizer to some lenses, speeding up the AF function, increasing the number of focusing points, and the addition of the Eye-Controlled Focus™ Function. As the system's range of functions has evolved, the nature of the basic system of communications between lens and body has evolved as well, ensuring that complete compatibility is maintained. This process of evolution will continue in the future with the addition of more new specifications, resulting in still further gains in reliability. **Accordingly, in order to realise the maximum performance of the EOS system and thereby achieve the highest possible photographic quality, we recommend that you use Canon EF lenses and Canon brand name accessories, since they are designed and manufactured to match the special qualities of your EOS camera.**

USM = Ultrasonic Motor; AFD = Arc Form Drive; MM = Micro Motor; DI = Drop-in Filter; L = L-Series Professional Lens; # = With Hood Adapter 62, i = Special Order item

* TS-E AND MP-E lenses are manual focus only, with automatic diaphragm.

** Extenders EF 1.4x II and EF 2x II are for exclusive use with EF 70-200mm f/2.8L, 70-200mm f/2.8L IS, 70-200mm f/4L, 100-400mm f/4.5-5.6L, 135mm f/2L, 180mm f/3.5L Macro, 200mm f/1.8L, 200mm f/2.8L, 300mm f/2.8L IS, 300mm f/4L, 300mm f/4L IS, 400mm f/2.8L IS, 400mm f/4 DO, 400mm f/5.6L, 500mm f/4L IS, 600mm f/4L IS, and 1200mm f/5.6L. (Manual focus only when EF 1.4x II is used with EF 100-400mm f/5.6L, 400mm f/5.6L, 500mm f/4.5L, 1200mm f/5.6L, and with 180mm f/3.5 Macro when focused closer than 2.6 feet; or with Extender EF 2x II when used with EF 70-200mm f/4L, 100-400mm f/4.5-5.6L, 180mm f/3.5L Macro, 300mm f/4L IS, 300mm f/4L, 400mm f/4 DO, 400mm f/5.6L, 500mm f/4L, 500mm f/4.5L, 600mm f/4L, and 1200mm f/5.6L).

*** Life Size Converter EF is for exclusive use with EF 50mm f/2.5 Compact Macro.

**** Available only with the 300D kit. Compatible only with EOS 300D.

• Incorporates distance information with E-TTL II.

Rear Cap for EF Lenses = Lens Dust Cap E.

Body Cap for EOS Cameras, Life Size Converter EF = Camera Cover R-F-3.

EF LENS ACCESSORIES

Lens Cases

Lens Hoods

Lens Cases and Lens Hoods

Functional, rugged and well-designed, these cases are indispensable for protecting your valuable lenses. Dedicated lens hoods shield your lenses from extraneous light and prevent flare from spoiling your images.

Circular Polarising Filter PL-C

Type: Screw-in
Available Size: 77mm, 72mm, 58mm, 52mm

This filter can help to increase subject contrast by controlling reflected light from non-metallic surfaces. It is useful for reducing or eliminating reflections from glass and water, and can darken blue skies in certain conditions, without affecting the accuracy of auto focusing or TTL exposure metering.

52mm/48mm Drop-in Circular Polarising Filter PL-C

Type: Drop-in
Available Size: 52mm, 48mm

For use with lenses using rear-mounted drop-in filters (see chart on page 16), this polarising filter can be rotated without removing the holder from the lens.

52mm/48mm Drop-in Gelatin Filter Holder II

Type: Drop-in
Available Size: 52mm, 48mm

For use with EF & FD lenses with drop-in type filter holders, these holders can accommodate up to three filters.

52mm/48mm Drop-in Screw Filter Holder (w/48mm Regular Filter)

Type: Drop-in
Available Size: 52mm, 48mm

These holders accommodate screw-in filters. Available in 48mm for a number of EF & FD lenses, and 52mm for the new IS super-telephoto lenses.

Holder III Holder IV

Gelatin Filter Holder III & IV

Type: Screw-in

Available Size: 77mm, 72mm (Gelatin Filter Holder III) 72mm (Gelatin Filter Holder IV) 67mm, 58mm, 52mm

These holders allow 3-inch or 4-inch square gelatin filters to be fitted to most EF lenses. They require a Gelatin Filter Holder Adapter and, with most lenses, can be combined with optional gelatin filter holder hoods III or IV.

Hoods III Hoods IV

Gelatin Filter Holder Hoods III & IV

Type: Screw-in

Available Size: Gelatin Filter Holders III and IV hold up to three 3-inch and three 4-inch square gelatin filters, respectively. These hoods attach to the front of Gelatin Filter Holders III or IV to block stray light. These hoods can be stacked.

Adapter III Adapter IV

Gelatin Filter Holder Adapter III & IV

Type: Screw-in
Available Size: Type III or Type IV; 77mm, 72mm, 67mm, 58mm, 52mm

These adapters are used to attach Gelatin Filter Holders to most Canon EF Lenses.

No.1 No.2

Softmat Filter No.1 and No.2

Type: Screw-in
Available Size: 52mm, 58mm

This is a lens attachment for producing soft focus effects. A coated pattern over the filter diffracts some of the light passing through. Filter No.1 produces a gentle, subtle soft-focus effect. Filter No. 2 produces a stronger effect.

250D 500D 500

Close-up Lenses

Type: Screw-in

Available Size: 58mm, 52mm (250D) 77mm, 72mm, 58mm, 52mm (500/500D)

These close-up attachments can be used with most Canon EF lenses to provide a shorter minimum focus distance with no loss of light. The 250D/500D series incorporates double-element achromatic design for maximum optical performance while the 500 series features single-element construction for maximum economy. It is recommended that you use manual focus with these lenses. The 250D is optimised for focal lengths from 50mm to 135mm, while the 500 series works best at focal lengths from 100mm to 400mm.

EF 25 II EF 12 II

Extension Tube EF 25 II & EF 12 II

These close-up accessories maintain full electronic coupling between the camera body and lens, often providing greater magnification than possible with close-up lenses. These tubes can be used with most Canon EF lenses including EF-S lens. Manual focusing is recommended and exposure compensation may be necessary.

Loupe 8x

Loupe 4x

Loupe 8x and 4x Magnifying Viewer

Designed for viewing 35mm film frames at high magnifications, these loupes incorporate a high-performance imaging lens system that eliminates all aberration and distortion. Super spectra lens coating provides both the 8x and 4x loupes with clear images, without ghosting or flare. These loupes offer a wide visibility adjustment range (diopter adjustment -4 to +1 dpt), and include a rubber eyecup (with or without strap), a translucent hood, a light shading hood, and a soft case.

Speedlite 550EX

ALL

Dimensions (W x H x D):
80 x 138.6 x 111.9mm
Weight: 405g (without batteries)

Canon's flagship Speedlite, the 550EX meets strict specifications for both professional and advanced amateur users of EOS series cameras. The 550EX is fully E-TTL compatible with all current EOS SLRs, and most of its features are backward-compatible with any EOS SLR ever made. All this, with a maximum Guide Number of 180ft /55m. (ISO 100) gives the 550EX the best combination of features and power in any Speedlite to date.

E-TTL AUTO FLASH SYSTEM
Canon's most advanced flash metering, Evaluative Through-The-Lens (E-TTL) offers natural-looking, properly illuminated subjects and backgrounds with good balance between flash and ambient light through the incorporation of three different light-measuring variables.

WIRELESS TRANSMITTER FUNCTION
The Speedlite 550EX includes a built-in wireless transmitter (master unit) enabling it to control other 550EX and 420EX Speedlites as slave units for main, fill and background lighting. A mini-stand is included so each 550EX Speedlite can be used as a slave unit.

OTHER FEATURES
Other features include an AF-Assist Beam with two emitting units lined up which automatically fires in low-light and low-contrast situations to assist the camera's auto focusing system. The FEB (Flash Exposure Bracketing) feature allows you to bracket flash exposures in three consecutive frames automatically up to three stops in either in 1/3 or 1/2-stop increments, and High-speed Sync allows the flash to be synchronised with any shutter speed. A Modelling Flash feature enables you to check flash lighting effects (flash balance, shadows, etc.) by firing at 70Hz for one second before taking the actual picture. With FE Lock – the flash version of AE Lock – flash exposure is calculated and stored to obtain the desired flash exposure.
A stroboscopic flash is available with an extremely high frequency of 199Hz for a greater percentage of successful shots. The 550EX also has is a built-in wide panel for flash coverage up to 17mm.

CHOICE OF POWER SOURCES
Internal power sources include four AA alkaline batteries, four AA Ni-Cd batteries or four AA lithium batteries. For external power supply options, the Speedlite 550EX is fully compatible with Canon's Compact Battery Pack CP-E2 or Transistor Pack E.

Speedlite 420EX

ALL

Dimensions (W x H x D):
71.5 x 123 x 99.4mm
Weight: 300g (without batteries)

Although 30% smaller in total volume than the 550EX, the Speedlite 420EX provides a powerful maximum guide number of 42m and the flash head can be bounced and swivelled.
It automatically zooms the flash head to cover lenses from 24mm through 105mm. This versatile speedlite provides full E-TTL flash automation with current EOS digital and film SLRs, and it's fully backward-compatible with earlier EOS SLRs, switching seamlessly to standard off-the-film TTL when it's attached. And since it's an E-TTL flash, it offers Canon's advanced flash features like

High-speed Sync, FE Lock and second-curtain sync. Even more impressive, the 420EX can be used off-camera – alone or with an unlimited number of other 420EX and/or 550EX flash units – for Wireless E-TTL flash. It fires a built-in horizontal and vertical striped AF-assist beam that's optimised for the seven-point AF system in the EOS 10D, EOS 30/33 and compatible with all EOS cameras. Powered by four AA batteries (alkalines, lithiums, rechargeable Ni-Cds or Ni-MH), the 420EX has an energy-saving feature that automatically switches it to a power-saving mode after 90 seconds of inactivity.

EF 20-35mm f/2.8L • 1/60 • f/4.5 • ISO 50 • Speedlite 550EX with built-in wide panel

Speedlite 220EX

ALL

Dimensions (W x H x D):
65 x 92 x 61.3mm
Weight: 160g (without batteries)

The Speedlite 220EX is a compact, fully automatic E-TTL Speedlite for use with any EOS camera. E-TTL auto flash, High-speed Sync (FP flash), and FE Lock can be used when the 220EX is attached to any E-TTL-compatible EOS body. When it is used with any multiflash accessory or an EOS camera not compatible with E-TTL, the 220EX operates with TTL auto flash (off-the-film flash metering). The fixed flash coverage is effective for lenses as wide as 28mm (35mm format). With a guide number of 72.2ft./22m (ISO 100), the 220EX is an excellent flash to bring along when compact power is a priority.

EF 85mm f/1.2L USM • 1/30 • f/2 • ISO 100 • Speedlite 420EX

Macro Twin Lite MT-24EX

ALL

Dimensions (W x H x D): (Control Unit) 74 x 125.9 x 97.4mm
(Flash Unit) 235 x 90.4 x 49mm
Weight: 585g
(combined flash and control units without batteries)

Unlike a ring lite's rather flat and frontal lighting, the new MT-24EX is designed to provide a natural directional quality to macro and close-up lighting. This innovative new Macro Twin Lite permits a wide range of individual positioning to each flash head, and either head can be removed from its attachment ring and independently positioned as well. (They both have shoe-mount fittings, with a 1/4-20 socket).
It uses Canon's E-TTL flash system, so it works beautifully with film and digital EOS SLRs. Full support for wireless E-TTL and ratio control is also provided, making this an incredibly versatile addition to any serious macro photographer's collection. With a high guide number 79ft./24m at 100 ISO, it easily handles the small apertures common in close-up shooting. A pair of focus-assist lamps are built in, and this remarkable Speedlite has nine custom functions for even more versatility.

taken with the MT-24EX and the EOS-1D

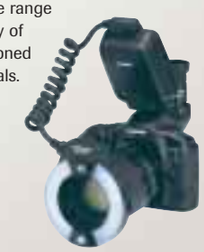
Macro Ring Lite MR-14EX

ALL

Dimensions (W x H x D): (Control Unit) 74 x 125.9 x 97.4mm
(Flash Unit) 112.8 x 126 x 25.6mm
Weight: 43g (Combined flash and control units, without batteries)

The Macro Ring Lite MR-14EX, with Canon's E-TTL autoflash control, provides flexibility and ease of use in a flash dedicated to close-up photography. The MR-14EX is capable of High-speed Sync, flash exposure lock, compensation and bracketing. With its guide number of 45.9ft./14m (ISO 100), the MR-14EX greatly enhances the macro photography capabilities of the EOS camera system. It permits wireless multiple flash control and the A:B flash ratio can be changed from 8:1 to 1:8 in 13 1/2-step increments.

In addition to its bright modelling lamp for ease of focus, the macro ring light also features a modelling flash to check flash ratios by pressing the depth-of-field preview button (EOS-1v, EOS-3, EOS 30/33, and all digital SLRs). Fully automatic, the MR-14EX simplifies complex flash photography for beginners and extends the range of creativity of more seasoned professionals.



taken with the MT-14EX and the EOS-1v HS

Perfect Flash Exposures Make Better Pictures

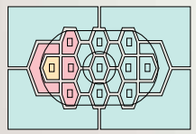
Integral to Canon's EOS system, EOS Speedlites are the ideal light source to provide perfect exposure and illumination for just about any subject. Operation is simple yet sophisticated; the more you understand the system, the more you can do with it. Whether you're a beginner or an expert, it's easy to obtain professional-quality results. Let's take a look at the options:

The Difference between E-TTL, E-TTL II and TTL

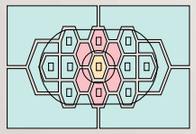
WHAT IS E-TTL?

Canon's flagship flash mode, E-TTL stands for Evaluative Through-The-Lens flash exposure control. In E-TTL, the meter reads through the lens, but not off the focal plane. Utilising a pre-flash fired after the shutter button has been fully depressed but before the camera's reflex mirror goes up, E-TTL uses the camera's evaluative metering sensor to analyse and compare ambient light exposure values with the light reflected from the subject by the pre-flash. This data is used to calculate and store the flash output required for optimum exposure of the main subject (identified by the AIM system*), while maintaining a subtle balance between foreground and background. This method provides several extra features such as Flash Exposure Lock (a method of spot metering with flash) and FP flash mode (the ability to use flash at high shutter speeds). E-TTL is Canon's most advanced flash exposure control system to date, and requires the use of EX-series dedicated Speedlites such as the 550EX, 420EX, 220EX, MT-24EX or MR-14EX in combination with a compatible camera. (See SLR Compatibility chart on page 21).

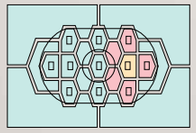
E-TTL Flash System
(Cameras with 21-zone metering)



meter weighted on extreme-left focusing point



meter weighted on centre focusing point



meter weighted on extreme-right focusing point

Primary metering zone
Secondary metering zones.
Other metering zones.

* An abbreviation for "Advanced Integrated Multi-point control system", AIM is Canon's original multi-point autofocusing and metering system. It links evaluative metering, spot metering and flash exposure control to the active focusing point. It enables the user to concentrate on composition and peak expression without having to first place the subject at the centre for AF Lock.

E-TTL II

The new 30V/33V and the EOS-1D Mark II employ an "evolved" version of E-TTL, the E-TTL II, which incorporates distance information from compatible EF lenses** for more versatile flash exposure control. E-TTL II eliminates underexposure that can occur with straight reflections by ignoring sensor areas that report abnormally high levels of reflections from its calculation. This feature is useful when shooting a subject with a highly reflective object in the background or if the subject itself is highly reflective. In addition, the new E-TTL II prevents over-exposure when photographers lock focus and recompose the shot by considering the flash output level calculated according to the distance information. Moreover, with the EOS-1D Mark II, the system is not dependent on the active AF point for even more consistent flash exposure result, considering the numerous focusing points. Here is how this works: the ambient light is measured when the shutter button is pressed. Next, a pre-flash is fired and the metering sensor takes readings at the central 17 metering zones. The ambient and pre-flash readings are compared. The metering areas having a small difference are selected as the flash exposure metering areas. Areas with very big differences between ambient and pre-flash readings are excluded or down-weighted because they are assumed to contain a highly reflective object, or that the subject is not in that part of the frame. This assumption is also ensured by the distance information, and thealgorithm avoids chronic under-exposure problems in such situation. These readings are weighted, averaged and compared with the ambient light reading, and the main flash output is then set and stored in memory.

Thus, unlike the conventional system, EOS-1D Mark II weighs and averages the flash metering capturing the subject as a "plane" and not as a "point". As a result, the camera can obtain consistent flash exposures even if the subject contains various colours and various levels of reflections. The camera also allows the user to select an average metering pattern by using its custom function settings.

**Refer to the EF Lens Specifications chart on page 16 for E-TTL II compatible EF lenses.

WHAT IS TTL?

TTL (Through-The-Lens) is the standard flash exposure control mode used by the built-in flash units that come with some EOS cameras. It is also the only mode available with older Canon models such as the Speedlite 480EG, 200E, 160E and Macro Ring Lite ML-3. Additionally, TTL is available with Speedlite 540EZ in all camera exposure modes except for direct flash in Program Mode, as shown in the Speedlite Compatibility Chart on page 21. TTL is identical to A-TTL in almost every way, except there is no pre-flash. When the camera is set to Program mode, TTL flash sets an aperture based on the ambient light level.

Note: A-TTL and TTL are not compatible with digital SLRs.

Optional Settings for Enhanced Creativity

FE LOCK

Flash Exposure Lock (FE Lock) adds Auto Exposure Lock and spot metering functions to flash photography with EX-series Speedlites and E-TTL compatible cameras. The EX-series Speedlite's pre-flash fires when the camera's AE Lock button is depressed, storing both flash and ambient spot metering data for up to 16 seconds. This provides enough time for adjustments: Not only can the shot be recomposed, but the ambient exposure can also be altered for maximum creative control. FE Lock is extremely useful when you wish to recompose after focus lock or to place the main subject in a part of the picture area that is not covered by one of the focusing points. It can also eliminate potential exposure errors caused by unwanted reflections from highly reflective surfaces like windows or mirrors.

ADJUSTING AMBIENT EXPOSURE IN FE LOCK

After pre-flashing the subject with the FE Lock button, ambient exposure can be adjusted by turning the Quick Control Dial. The ambient exposure level is displayed on the exposure level scale in the viewfinder and on the external LCD panel. Correct ambient exposure according to the camera's meter is indicated by the triangle index at the centre of the scale.

Note: Ambient exposure cannot be adjusted when the camera is set to Bulb Mode, or in low-light situations when the camera is set to Program or DEP.

FP MODE

FP (focal-plane) flash, or High-speed Sync, enables an E-TTL-compatible camera equipped with an EX-series Speedlite to synchronise flash at shutter speeds faster than the camera's normal maximum sync speed. Even in bright daylight, for example, a fast lens can be used at a wide aperture to blur the background and emphasise the subject. FP flash can be combined with E-TTL or FE Lock, and is available in all AE modes plus Manual.

Note: Unlike conventional electronic flash, FP flash output (guide number) decreases according to shutter speed.

FP Flash • EF 50mm f/1L USM lens, 1/1,000 sec. at f/2

FLASH EXPOSURE COMPENSATION

This setting adjusts the level of illumination provided by the flash without changing the shutter speed or aperture. It's a particularly effective way to fine-tune the balance between foreground and background exposure during fill-in flash, but it can also be effective to compensate for extremely bright or dark tones in the subject. Flash exposure compensation can be set with most current Speedlites, and it can also be set with all current EOS cameras other than the EOS 3000N, EOS 300, EOS 300V and EOS 300D.

SECOND-CURTAIN SYNC

Instead of firing the instant the shutter opens, second-curtain sync fires the flash at the end of the exposure, allowing streaks of light to flow naturally behind the movement of the subject. This mode opens a door to more creative opportunities, and is most effective when slow shutter speeds are used in combination with a subject that has a light source of its own, such as the headlights of a moving car.

second-curtain sync makes light streaks appear in the path behind the moving subjects, by firing the flash at the end of the exposure

STROBOSCOPIC FLASH

Stroboscopic flash is a series of flashes fired successively during a single exposure. With stroboscopic flash, multiple images of a moving subject appear in the photograph. Using this mode, you can analyse a golf swing or record the shattering of a windowpane. Available with Speedlite 550EX, Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX, it's yet another way Canon adds to your creative potential.

Choosing the Best Shooting Mode

P – PROGRAM AE

Set your EOS camera to Program and the camera and Speedlite work together to create perfectly lit exposures automatically. In daylight or brightly lit indoor situations, the background will always be correctly exposed and the camera will control the fill-flash ratio for optimum results. Indoors or at night, the Speedlite becomes the main source of illumination and the shutter speed will be kept fast enough to permit hand-held exposures.

AV – APERTURE-PRIORITY AE

Selecting Aperture-Priority AE Mode while shooting with flash gives you maximum control over depth-of-field. You choose the aperture, and the camera will automatically set a shutter speed according to the ambient light level. Backgrounds will be properly exposed, day or night. To make sure you achieve a balanced exposure, the shutter speed indicator will let you know if you've chosen an unusable aperture by blinking on and off in the viewfinder and external LCD display.

TV – SHUTTER-PRIORITY AE

Using your flash in Shutter-Priority Mode lets you select the shutter speed while the camera selects the aperture based on the ambient light consistently resulting in correctly exposed backgrounds. In bright light, you can select high shutter speeds up to the camera's maximum X-sync speed, and even higher than that with EX-series Speedlites and E-TTL compatible cameras. In dark conditions, you can set slower speeds (up to 30 seconds) for special effects. If you select a shutter speed that is too fast to produce a correct exposure of the background, the EOS system will display a blinking warning in the viewfinder and external display.

M – MANUAL MODE

When you want full control of both shutter and aperture while shooting with flash, use the camera's Manual Mode. This option is important in low-light situations when you want to combine small apertures with high shutter speeds. Keep in mind that manual exposure mode on the camera can be combined with fully automatic flash exposure, since the EOS camera's metering systems for flash and existing light are controlled independently.

Shedding a Little Light on Canon Speedlites

Canon offers a full range of Speedlite flash units compatible with EOS system cameras for a wide variety of applications and photographers' needs. They run the gamut from simple, economical flashes to high-power, highly advanced Speedlites for professional use.

EX-SERIES SPEEDLITES

EX-series Speedlites such as the 550EX, 420EX, 220EX, and MT-24EX and MR-14EX share several common features including E-TTL, FE Lock, and FP Flash modes. These modes provide the best overall performance and flexibility for automatic flash exposure control with E-TTL compatible EOS cameras, including wireless control of off-camera slave units with the 550EX, MT-24EX and MR-14EX. EX-series Speedlites function in TTL mode when used with earlier EOS cameras lacking E-TTL capability.

EZ-SERIES SPEEDLITES

All EZ-series Speedlites have been replaced with EX-series models. The main features shared in common by these still advanced Speedlites are A-TTL capability and motorised zoom control that automatically varies flash coverage according to lens focal length.

SPEEDLITE 200E

This series includes low-power, economy flash units with TTL-only flash operation. Speedlite 200E provides fully automatic operation with any EOS film camera, and is an excellent choice for close-up photography when used in combination with Off-Camera Shoe Cord 2.

Note: Speedlite 200E is not compatible with EOS digital SLRs.

SLR Compatibility

CAMERA	E-TTL	E-TTL II	A-TTL / TTL
EOS 620/650 †	No	No	Centre-weight
EOS 700/750/850 †	No	No	Centre-weight
EOS 630/600 RT †	No	No	Centre-weight
EOS-1 †	No	No	Centre-weight
EOS 1000/1000F †	No	No	Centre-weight
EOS 100 †	No	No	Centre-weight
EOS 1000FN/1000S †	No	No	Centre-weight
EOS 10 †	No	No	3-zone
EOS 5 †	No	No	3-zone
EOS-1N RS †/1N †	No	No	3-zone
EOS-1v/1v HS	Yes	No	4-point/3-zone
EOS 500 † /3000N	No	No	4-point/3-zone
EOS 5000 †	No	No	4-point/3-zone
EOS 50/50E †	Yes	No	4-point/3-zone
EOS 30V/33V	Yes	Yes	4-point/3-zone
EOS 500N †	Yes	No	4-point/3-zone
EOS IX7/IX †	Yes	No	4-point/3-zone
EOS-3	Yes	No	4-point/3-zone
EOS 300V/300V Date/300/300 Date	Yes	No	4-point/3-zone
EOS D2000 (Digital) †	Yes	No	3-zone
EOS D30 (Digital) †	Yes	No	Not Possible*****
EOS 300D (Digital)	Yes	No	Not Possible*****
EOS D60 (Digital) †	Yes	No	Not Possible*****
EOS 10D (Digital)	Yes	No	Not Possible*****
EOS-1Ds/1D (Digital)	Yes	No	Not Possible*****
EOS-1D Mark II (Digital)	Yes	Yes******	Not Possible*****

Speedlite Compatibility

Speedlite	E-TTL****	A-TTL	TTL	Manual
550EX	Yes****	No	Yes*	Yes
540EZ †	No	Yes**	Yes	Yes
480EG †	No	No	Yes	Yes
430EZ †	No	Yes	Yes***	Yes
420EZ †	No	Yes	Yes***	Yes
420EX	Yes****	No	Yes*	No
380EX †	Yes****	No	Yes*	No
300EZ †	No	Yes	Yes***	No
220EX	Yes****	No	Yes*	No
200E	No	No	Yes	No
160E †	No	No	Yes	No
ML-3 †	No	No	Yes	No
MR-14EX	Yes****	No	Yes*	Yes
MT-24EX	Yes****	No	Yes*	Yes

* Defaults to TTL with EOS bodies that do not support E-TTL.
** Defaults to TTL in all conditions except direct flash in the camera's Program mode.
*** Defaults to TTL in the camera's Manual mode.
**** Requires EOS body that supports E-TTL.
***** All EOS Digital SLRs (except D2000) provide automatic E-TTL flash with EX-series Speedlite only. TTL/A-TTL with older Speedlite is not possible.
† Discontinued product, for reference only.
****** Not linked to AF point.

WIRELESS FLASH PHOTOGRAPHY

Multiple Speedlites can obtain lighting effects not possible with a single Speedlite. Previous multiple Speedlite systems required cumbersome wires to connect the Speedlites and camera. This is no longer the case with EX-series Speedlites and an EOS SLR. Everything is now wireless as well as automatic.

Wireless flash works with one or more Speedlites 550EX or 420EX as slave units. Speedlite 550EX or Speedlite Transmitter ST-E2 is attached to the camera and the slave unit is positioned remotely. The on-camera Speedlite or Transmitter serves as the master unit which transmits wireless signals to an unlimited number of other Speedlites 550EX or 420EX which serve as slave units. The master unit's flash can also be enabled or disabled, and when disabled, it can still transmit wireless optical signals.

Speedlite Spotlights both girls were illuminated with one Speedlite each. Ambient light was retained in the room down the hall. The compactness of the Speedlites and wireless control were key features which made this shot possible
• EF 28-70mm f/2.8L USM lens, 1/20 sec. at f/3.5

Resting Girl Two slave units aimed at reflectors were used
• EF 50mm f/1L USM lens, 1/60 sec. at f/4

Speedlite Transmitter ST-E2

ALL

Weight: 100g (Including battery)

Developed in conjunction with the Speedlite 550EX and the EOS-3 camera, this master control device for a wireless Speedlite flash system meets and exceeds professional and advanced amateur standards. Its dedicated transmitter controls an unlimited number of 420EX or 550EX Speedlites as slave units up to 33ft/10m away outdoors and 49.5ft/15m away indoors. It is mounted as a clip-on with shoe-lock lever and locking pin.

ADVANCED FEATURES, E-TTL COMPATIBLE

Compatible with E-TTL autoflash functions, groups of 550EX Speedlites are able to take advantage of High-speed Sync, FE Lock, Flash Exposure Bracketing, and pre-flash evaluative metering.

BUILT-IN AF-ASSIST BEAM

The AF-Assist Beam automatically fires in low-light and low-contrast situations to assist the camera's autofocusing system.

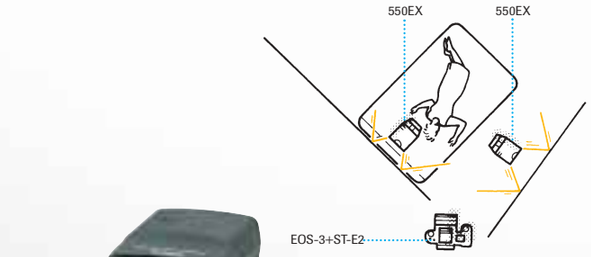
SETS AND CONTROLS FLASH RATIOS*

Transmitter ST-E2 sets and controls all functions of its Speedlite 550EX slave units. Flash ratios, for example, are controllable between two groups of 420EX and/or 550EX Speedlites, over a six-stop range.

HIGH SPEED FP FLASH

High Speed FP (Focal Plane) flash for synchronisation at all shutter speeds is available. Larger apertures can be used to obtain better background blur. Additionally, fill flash can be used for moving subjects in daylight.

* Wireless E-TTL with full ratio control possible with EOS-1D, EOS 1Ds, EOS 10D, EOS 300D, EOS-1v, EOS-3, Elan 30/33 and EOS 300V.



Speedlite Transmitter ST-E2 on the EOS-3

Speedlite 550EX mounted on the mini stand (provided)

E-TTL Wireless Autoflash Control

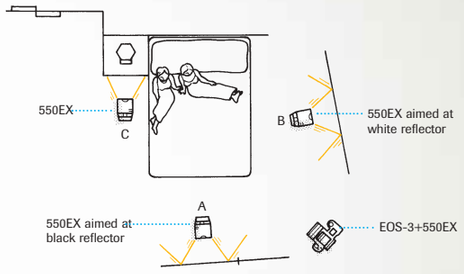
Up to three groups (for main, fill, and background flash) of slave units can be set up for optimal, complete control of lighting. The slave unit's ID is set to A, B, or C. The flash output ratio between two Speedlite groups can be adjusted automatically from 8:1 to 1:1 or from 1:1 to 1:8. The flash output of the C Speedlite group can be adjusted through flash exposure compensation. The E-TTL autoflash system controls the total flash output to obtain a correct exposure. Also, when Speedlite 550EX is used with the EOS-1Ds, EOS-1D, EOS 10D, EOS 300D, EOS D60, EOS D30, EOS-1v, EOS-3, EOS 30/33 or EOS 300V, you can fire a modelling flash for 1 sec. at 70Hz, by pressing the depth-of-field preview button to preview the flash effects before taking the picture. Even with multiple Speedlites, the modelling flash fires according to the flash ratio you have set.

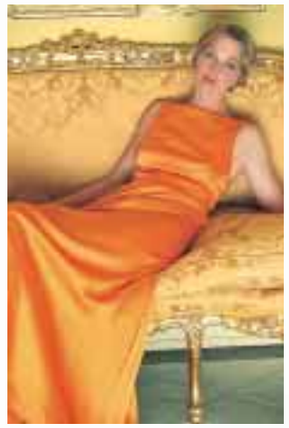
E-TTL wireless autoflash can also be used with most other Speedlite features, such as FE Lock, FP Flash, Flash Exposure Bracketing/Compensation, and Stroboscopic Flash. Finally, for macro shooting, the Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX can be used as master units as well.

Speedlite Transmitter ST-E2

Instead of using a Speedlite 550EX as the on-camera master unit, this wireless transmitter can be used. The ST-E2 can control up to two groups of slave units with ratio control between each group.

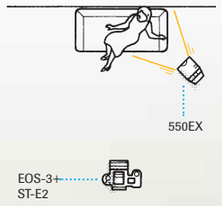
Blonde and Brunette One slave unit was aimed at a black reflector and another at a white reflector
• EF 85mm f/1.2L USM lens, 1/15 sec. at f/4.5

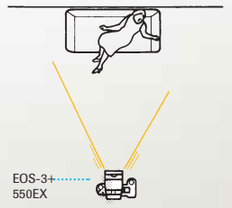


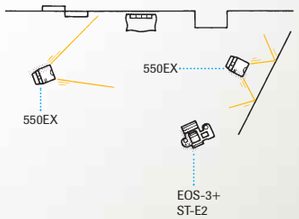


Side Lighting Side lighting with a remote slave unit gives a three-dimensional effect
• EF 28-70mm f/2.8L USM lens, 1/20 sec. at f/3.5

Front Lighting On-camera flash usually results in flat lighting
• EF 28-70mm f/2.8L USM lens, 1/20 sec. at f/3.5







A direct flash from the left and a reflected flash on the right lit the flowers
• EF 28-70mm f/2.8L USM lens, 2 sec. at f/6.7

SPEEDLITE ACCESSORIES

Compact Battery Pack CP-E2

550EX 540EZ 430EZ MR-14EX MT-24EX

Weight: 155g

The CP-E2 is a modified version of the original Compact Battery Pack E. This new version accepts six AA-size lithium batteries, as well as alkaline or rechargeable Ni-MH or Ni-Cd.

Transistor Pack E

550EX 540EZ 430EZ MR-14EX MT-24EX 480EG

Weight: 29.8oz/530g (without batteries)

Transistor Pack E can be used with a choice of power supplies, including Battery Magazine TP which holds six C-size alkaline-manganese batteries or with the sealed rechargeable Ni-Cd Pack TP. (Includes Battery Magazine TP and Connecting Cord ET)

Battery Magazine TP

This magazine holds six commonly available C-size alkaline batteries. Connecting Cord ET is also available separately.

Off-Camera Shoe Cord 2

ALL except RT 630

This useful accessory maintains all on-camera flash functions for a Canon Speedlite used off-camera, at distances up to 2ft/60cm. Moving the Speedlite off-camera results in better control over lighting angle. The Off-Camera Shoe Cord 2 is not compatible with the EOS RT.

TS-E 90mm f/2.8 • 1/15 • f/8 • ISO 50

TTL Hot Shoe Adapter 3*

ALL except 1Ds 1D Mark II 1D 10D or 300D D60 D30

Placed in the EOS camera's accessory shoe, this adapter controls up to four off-camera Speedlites.

Connecting Cord 60*

ALL except 1Ds 1D Mark II 1D 10D or 300D D60 D30

This 2ft/60cm coiled cord has connections on both ends.

Off-Camera Shoe Adapter OA-2*

ALL except 1Ds 1D Mark II 1D 10D or 300D D60 D30

For off-camera applications of Speedlite flash units, this adapter will accept one Speedlite and a connecting cord to the camera.

TTL Distributor*

ALL except 1Ds 1D Mark II 1D 10D or 300D D60 D30

This system connector accepts up to four connecting cords.

Connecting Cord 300*

ALL except 1Ds 1D Mark II 1D 10D or 300D D60 D30

This 9.8ft/3m straight cord has connections on both ends.

*These accessories provide TTL or manual flash control, but are not compatible with E-TTL and will not support automatic flash on digital SLRs.

Recycling Times and Shooting Capacities (540EZ, 550EX, 430EZ & 480EG)

	With the 540EZ		With the 550EX	
	Recycling Time (sec)	Shooting Capacity (Number of Flashes)	Recycling Time (sec)	Shooting Capacity (Number of Flashes)
Compact Battery Pack CP-E2	0.2~5	400~2,500	0.1~5	350~2,200
Transistor Pack E	0.2~5	400~2,500	0.1~5	350~2,200
Transistor Pack E Ni-Cd Set	0.2~3	350~2,000	0.1~3	300~1,800
	With the 430EZ		With the 480EG	
	Recycling Time (sec)	Shooting Capacity (Number of Flashes)	Recycling Time (sec)	Shooting Capacity (Number of Flashes)
Compact Battery Pack CP-E2	0.2~5	400~2,500	–	–
Transistor Pack E	0.2~5	400~2,500	0.2~17	100~700
Transistor Pack E Ni-Cd Set	0.2~3	350~2,000	0.2~6	90~600

POWER SUPPLIES

Power Drive Booster PB-E2

1V/1V HS 1N 1 3

Weight: 484g (without batteries)

Developed together with the Canon EOS-3 camera to boost its motor drive performance and attain maximum shooting speed, Canon's Power Drive Booster PB-E2 has been uniquely designed with a comfortable grip and controls for both horizontal and vertical shooting. While most effective with the Canon EOS-1v and EOS-3, it can be attached to the EOS-1 and EOS-1N cameras.

PERFORMANCE

With shooting speeds up to 7 fps (10 fps for EOS-1v), the PB-E2 exceeds the performance of anything else in its class. It offers two gear trains, Hi/Lo, and adds a powerful third motor dedicated to high-speed mirror and shutter control. When used with the optional Ni-MH battery pack NP-E2, the hi-speed gear train is automatically engaged and provides shooting speeds with continuous AI Servo autofocus as fast as 7 fps with the EOS-3, and 9 fps with the EOS-1v and EOS-1v HS (10 fps for EOS-1v in One-Shot AF or in manual focus modes).

CONTROLS

Ergonomically designed vertical grip controls include a shutter button, AE Lock button, FE Lock/multi-spot metering button, Main Dial, and focusing point selector.

POWER OPTIONS

Besides the Ni-MH battery pack NP-E2, the PB-E2 will also accept Canon's battery magazine BM-E2 which holds 8 AA alkaline, lithium rechargeable Ni-Cd or Ni-MH batteries.

Power Drive Booster PB-E2 Compatibility

	EOS-1v/ 1v HS	EOS-1N	EOS-1	EOS-3
Power Drive Booster PB-E2:				
with AA Alkaline batteries in Magazine BM-E2	●	●	●	●
with AA Lithium Batteries in Magazine BM-E2	●	●	–	●
with Ni-MH rechargeable pack NP-E2	●	✖	✖	●
Note: Ni-MH pack NP-E2 must NEVER be used in New Booster PB-E2 on either EOS-1N or original EOS-1 –AA Magazine BM-E2 only.				
PB-E2 Performance:				
Maximum fps, One-Shot AF or Manual focus:				
with AA batteries (Alkaline or Lithium)	6 fps	6 fps	5.5 fps	6 fps
with Ni-MH rechargeable pack NP-E2	10 fps	✖	✖	7 fps
Maximum fps, AI Servo AF:				
with AA batteries (Alkaline or Lithium)	5 fps	5 fps	4.5 fps	5 fps
with Ni-MH rechargeable pack NP-E2	9 fps	✖	✖	7 fps

One Moment in Ten Shot at 10 fps. • EF 300mm f/2.8L USM lens

Battery Magazine BM-E2

Power Drive Booster E2

Weight: 50g (without batteries)

Provided with Power Drive Booster PB-E2, this magazine holds eight AA-size alkaline, lithium, Ni-Cd or Ni-MH batteries.

Ni-MH Pack NP-E2

Power Drive Booster E2

Weight: 320g

The NP-E2 is a powerful battery pack dedicated to the Power Drive Booster PB-E2. The rated voltage is 12V. It can be recharged over 500 times. When fully charged, it has enough power for 70 rolls of 36-exposure film at 68°F/20°C.

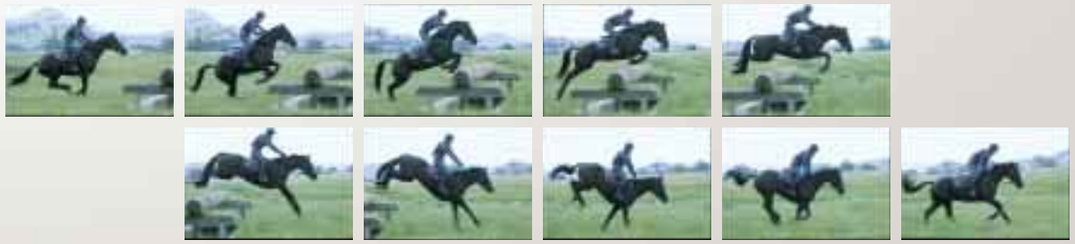
Note: Power Drive Booster PB-E2 with NP-E2 Battery Pack cannot be used with EOS-1 and EOS-1N. Not compatible with EOS-1Ds, EOS-1D Mark II and EOS-1D.

Ni-MH Charger NC-E2

Ni-MH Pack NP-E2 Ni-MH Pack NP-E3

Weight: 354g

This charger is dedicated to both the NP-E3 Battery Pack for the EOS-1Ds/1D, and the rechargeable NP-E2 Pack for the Power Drive Booster E2. Two packs can be attached at once. The discharge feature (taking up to 8.5 hours) cancels the pack's memory effect. It runs on 100-240v AC, so it's ideal for international travel.



POWER SUPPLIES

Battery Pack BP-E1*

1v/1v HS | 1N | 1 | 3

Weight: 280g (without batteries)

A dual power source for use with EOS-1, 1N, 1v and EOS-3, Battery Pack BP-E1 allows quick switching between a standard 2CR5 lithium battery or four AA-size alkaline Ni-Cd or Ni-MH batteries, according to the shooting conditions. The camera operates even when only one of the two battery types is installed. Compact and lightweight, the BP-E1 is an attractive alternative power supply grip that offers enhanced flexibility in power source selection.

Battery Pack BP-300*

30/33 | 30V/33V

Weight: 150g (without batteries)

Designed for use with the EOS 30V/33V, Battery Pack BP-300 can be used with either four AA-size batteries (alkaline, Ni-Cd or Ni-MH) or two CR123A lithium batteries as an additional power source. For greater convenience, it also features a shutter release button, on/off switch as well as an AE/FE Lock button, all on the vertical grip.

Battery Pack BP-220*

300V | 3000V

Weight: 115g (without batteries)

Designed for use with the EOS 300V, this convenient battery pack uses four AA or Ni-MH batteries to work as an additional power source for the camera. The BP-220 also functions as a vertical grip for the camera with a shutter release button and on/off switch.

Battery Pack BP-200*

300

Weight: 110g (without batteries)

Designed for the EOS 3000V camera, BP-200 uses four AA batteries, alkaline, Ni-Cd, or Ni-MH. It provides an additional power source as well as a vertical grip with an ergonomically placed shutter release button and on/off switch.

Battery Pack BP-50*

50/50E

Weight: 150g (without batteries)

The Battery Pack BP-50 provides extended power for EOS 50 cameras. It uses either four AA batteries or a standard 2CR5 lithium battery. As a vertical grip, it also provides its own shutter release button and on/off switch.

Battery Pack BP-8*

500N | 500 | 3000N

Weight: 95g (without batteries)

This lightweight, compact battery pack is designed for use with the Canon EOS 500N, EOS 500 and EOS 3000N cameras. It is a cost-efficient power supply, requiring only four AA alkaline or Ni-Cd batteries. Depending upon shooting conditions, up to 100 rolls of 24-exposure film can be shot with alkaline batteries, and 75 with Ni-Cd.

Grip GR-100TP

3000V

Weight: 271g

The GR-100TP grip includes a handy, easily adjustable mini-tripod, with vertical and horizontal adjustment, excellent for use with self-timer, low-angle or night photography. When the mini-tripod folds up, it is integral with the camera body, making it an excellent travel accessory. Combined with a hand strap, the grip ensures a secure grip on the camera.

Grip GR-80TP

500N | 500 | 3000N

Weight: 300g

The GR-80TP grip incorporates a mini-tripod, especially handy when on trips for self-timer, low-angle or night photography. The tripod can be easily adjusted to the right, left, up and down and, when folded up, it is integral with the body. Combined use with the hand strap ensures a secure grip on the camera.

* Not compatible with AA-size lithium batteries

• EF 28–70mm f/2.8L II USM lens, 1/250 sec at f/5.6

EOS 30V with Battery Pack BP-220

Front: EOS-1v / Left: EOS-1vHS (EOS-1v + Power Drive Booster PB-E2) / Right: EOS-1v + Battery Pack BP-E1

Shot at 7 fps.
• EF 400mm f/2.8L II USM lens, 1/1,000 sec at f/5.6

DIGITAL ACCESSORIES

Battery Grips

Battery Grip BG-ED3

10D | D60 | D30

Weight: 320g (without batteries)

The BG-ED3 functions as both a high-capacity battery pack and as a vertical grip. With a dedicated set of controls (shutter button, main dial, AE/FE Lock button, and AF frame-select button), portrait shots can be taken with the same ease as horizontal shots. The BG-ED3 can hold one or two BP-511 battery packs to provide approximately twice the shooting capacity of the camera alone. When used with the DC-Coupler DR-400 attached to a Compact Power Adapter CA-PS400 or AC Adapter ACK-E2, it can draw directly from an AC power source.

Battery Grip BG-E1

300D

Weight: 320g (without batteries)

The BG-E1 is a large-capacity battery pack and vertical grip, designed exclusively for the EOS 300D.
It holds either one or two BP-511 or BP-512 Battery Packs, approximately doubling the camera's shooting capacity. In addition, it makes vertical shooting easy and comfortable with a range of functions including shutter, main dial, AF/FE lock, AF point selection and Av +/-.
For AC-driven shooting, the BG-E1 is compatible with the AC Adapter Kit ACK-E2. Optional Hand Strap E1 available.

Battery Chargers & Adapters

Battery Pack BP-511/BP-512

10D | 300D | D60 | D30

Weight: 70g

This high-capacity lithium-ion battery is capable of approximately 300 shots on a single charge. Power is identical; the only difference is the flatter contour of the top of the BP-512 battery.

Battery Charger CB-5L

10D | 300D | D60 | D30

Weight: 110g (including cord)

This compact and light charger can charge a BP-511 or BP-512 battery in approximately 90 minutes. Smaller in design than Power Adapter CA PS400, this is the perfect charger to bring along on photo shoots or for travel. Also capable of charging BP-522 and BP-535 battery packs for video camcorders, this new accessory is perfect for the digital photographer on the go.

DC-Coupler DR-400

10D | 300D | D60 | D30

Weight: 110g (including cord)

When connected to the CA-PS400 Power Adapter or AC Adapter ACK-E2, this coupler allows the camera to draw power directly from an AC power source.

Compact Power Adapter CA-PS400

10D | 300D | D60 | D30

Weight: 287g (excluding AC cord)

This charger and AC adapter can simultaneously charge two BP-511 or BP-512 battery packs in 90 minutes. Additionally, when used with the DC-Coupler DR-400, it allows the EOS 10D, D60 or D30 to use power directly from an AC power source.

Ni-MH Pack NP-E3

1Ds | 1D Mark II | 1D

Weight: 325g

This battery pack is designed for exclusive use with the EOS-1Ds or EOS-1D Mark II. It has a rated voltage of 12V and a rated capacity of 1,650mAH, higher than the previous NP-E2. It can be recharged using the NP-E2's current charger, NC-E2, and recharges in about 120 minutes. The seams that come into contact with EOS-1Ds and 1D Mark II are lined with silicon rubber packing to enhance water and dust resistance.

DC Coupler Kit DCK-E1

1Ds | 1D Mark II | 1D

(DC Coupler) Weight: 150g
(AC Adapter PA-V16) Weight: 205g

This kit includes the DC Coupler, dedicated to the EOS-1Ds, EOS-1D Mark II, and AC Adapter PA-V16. When used together, they allow these SLRs to draw power directly from an AC power source.

AC Adapter Kit ACK-E2

10D | 300D | D60 | D30

Weight: 110g (AC-E2 unit only)

This compact and lightweight AC adapter, when combined with the included DC-Coupler DR-400, allows the camera to draw power directly from an electrical outlet. Much smaller in size than the CA-PS400, AC Adapter Kit ACK-E2 is compatible with the EOS D60 and D30 and well as the EOS 10D and new EOS 300D.

Data Verification

DVK-E1 (for EOS-1Ds)

Data Verification Kit DVK-E2/E1

1Ds | 1D Mark II

An invaluable tool for law enforcement and other documentary purposes, Canon's exclusive Data Verification Kit helps verify that images taken with the EOS-1Ds and EOS-1D Mark II have not been altered in any manner. Containing a dedicated card (IC with DVK-E1 and Secure Mobile Card with DVK-E2) and card reader, together with special Microsoft® Windows® 98SE/2000/ME/XP software (2000/XP only with DVK-E2), the Data Verification Kit can detect even the slightest discrepancy or alteration on any image taken with the EOS-1Ds or 1D Mark II.

DVK-E2 (for EOS-1Ds and EOS-1D Mark II)

Interface & Video Cable

Interface Cable IFC-450D-6*/IFC-450D4/IFC-200D4

1Ds | 1D Mark II

For connecting the EOS-1Ds or 1D Mark II to a Mac or PC via an IEEE 1394 (FireWire®) interface. The 450 cables are 14.8ft/4.5m in length, while the 200 cables are 6.6ft/2.0m. D6 and D4 refer to six-pin and four-pin FireWire® connection at the computer. The IFC-450D6 comes standard with the EOS-1Ds.

Interface Cable IFC-200D6/IFC-200D4**/IFC-200D44

D6 1Ds | 1D
D4 1Ds | 1D Mark II | 1D
D44 1D Mark II

6.6ft/2m cable for connecting the EOS-1Ds or 1D to a Mac or PC via an IEEE 1394 (FireWire®) interface. This six-pin cable comes standard with the EOS-1D Mark II.

Interface Cable IFC-400PCU**/IFC-300PCU***/IFC-200PCU

IFC-400PCU 1D Mark II | 10D | 300D
IFC-300PCU 10D | 300D | 1D Mark II
IFC-200PCU D60 | D30

These USB interface cables are used to connect the EOS to a Mac or PC via a USB terminal.

Video Cable VC-100****

10D | 300D | D60 | D30
1D Mark II

This cable enables direct image display from the camera to a television or a similar display device.

* Comes standard with the EOS-1Ds.
** Comes standard with the EOS-1D Mark II.
*** Comes standard with the EOS-10D and EOS 300D.
**** Comes standard with the EOS-1D Mark II, EOS-10D and EOS 300D.

Image Format and Capacity for EOS-1Ds, EOS-1D Mark II, EOS 10D and EOS 300D.

Image Format		Recording Resolution	Recording Format	Compression Rate	Image File Size (MB)	Recording Capacity (Shot)
EOS-1Ds *						
JPEG	Large/Fine	4064 x 2704 (Approx. 11.00 megapixels)	JPEG	Low Compression	4.1	25
	Large/Normal			High Compression	1.7	65
	Small/Fine	2032 x 1352 (Approx. 2.70 megapixels)		Low Compression	1.4	80
RAW		4064 x 2704 (Approx. 11.00 megapixels)	Lossless Compression	–	11.4	8
RAW +	Large/Fine	–	RAW + Separate JPEG File	–	15.3	4
	Large/Normal				12.9	6
	Small/Fine				12.6	7
EOS-1D Mark II **						
JPEG	Large/Fine	3504 x 2336 (Approx. 8.20 megapixels)	JPEG	Low Compression	2.8	79
	Middle/Fine	3104 x 2072 (Approx. 6.40 megapixels)		Low Compression	2.2	84
	Middle/Normal	2544 x 1696 (Approx. 4.30 megapixels)		High Compression	1.7	112
	Small/Fine	1728 x 1152 (Approx. 2.00 megapixels)		Low Compression	1.0	195
RAW		3504 x 2336 (Approx. 8.20 megapixels)	Lossless Compression	–	8.3	21
RAW +	Large/Fine	–	RAW + Separate JPEG File	–	8.3 + 2.8	16
	Middle/Fine				8.3 + 2.2	16
	Middle/Normal				8.3 + 1.7	17
	Small/Fine				8.3 + 1.0	19
EOS 10D						
JPEG	Large/Fine	3072 x 2048 (Approx. 6.30 megapixels)	JPEG	Low Compression	2.4	50
	Large/Normal			High Compression	1.2	103
	Middle/Fine	2048 x 1360 (Approx. 2.80 megapixels)		Low Compression	1.3	95
	Middle/Normal			High Compression	0.7	184
	Small/Fine	1536 x 1024 (Approx. 1.60 megapixels)		Low Compression	0.8	145
	Small/Normal			High Compression	0.4	282
RAW +	Large/Fine	RAW: 3072 x 2048 (Approx. 6.30 megapixels)	RAW + Embedded JPEG File	–	8.0	19
	Large/Normal				6.7	17
	Middle/Fine				6.8	16
	Middle/Normal				6.2	18
	Small/Fine				6.4	18
	Small/Normal				6.0	19
EOS 300D ***						
JPEG	Large/Fine	3072 x 2048 (Approx. 6.30 megapixels)	JPEG	Low Compression	3.1	38
	Large/Normal			High Compression	1.8	65
	Middle/Fine	2048 x 1360 (Approx. 2.80 megapixels)		Low Compression	1.8	66
	Middle/Normal			High Compression	1.2	101
	Small/Fine	1536 x 1024 (Approx. 6.30 megapixels)		Low Compression	1.4	88
	Small/Normal			High Compression	0.9	132
RAW +	Middle/Fine	RAW: 3072 x 2048 (Approx. 6.30 megapixels)	RAW + Embedded JPEG File	–	7.0	16

* Based on ISO 200, 128MB CF card and Canon's testing standards
** Based on ISO 100, 256MB CF card and JPEG quality level of 8
*** Based on ISO 100, 128MB CF card and Canon's testing standards

The actual image size depends on the subjects, shooting mode, and ISO speed.

SHOOTING ACCESSORIES

Data Back

Date Back DB-E2

1v/1v HS | 3

Designed specifically for the Canon EOS-1v and EOS-3 cameras, the Date Back DB-E2 offers a quartz auto date imprinting function. Interchangeable with the camera back, it is fitted with a standard back cover and functions with a Quick Control Dial and LCD display. It imprints dates to the year 2019 in five formats:
• Year/Month/Day • Day/Hour/Minute (with 24-hour display) • Blank • Month/Day/Year • Day/Month/Year
Imprinting can be turned off at any time.

Remote Controller and Switches

Wireless Controller LC-4

1Ds | 1D Mark II | 1D | 10D | D60 | D30 | D2000 | 1v/1v HS | 3

Dimensions (W x H x D):
(Transmitter) 69 x 163 x 22mm
(Receiver) 64 x 75 x 93mm
Weight (without batteries):
(Transmitter) 130g
(Receiver) 120g

The Canon LC-4 is an extended-range Wireless Controller system designed for professional and advanced amateur users of EOS cameras with N3 remote control sockets. Based on the proven LC-3 Wireless Controller, the LC-4 offers an enhanced connector on the Receiver unit, which has been changed from a threaded to a quick-lock type. The Remote Controller provides remote shutter release capability with a maximum transmitter to receiver distance of 300 ft / 91m.

Remote Switch RS-80N3

1Ds | 1D Mark II | 1D | 10D | D60 | D30 | D2000 | 1v/1v HS | 3

Weight: 53.8g

This remote switch has a 2.6ft/80cm cord to prevent camera shake for super telephoto shots, macro photography, and bulb exposures. The Remote Switch works just like a shutter button, enabling halfway or complete pressing. It also has a shutter-release lock. Its quick-lock plug connects to the N-3 type remote control socket found on many EOS bodies.

Timer Remote Controller TC-80N3

1Ds | 1D Mark II | 1D | 10D | D60 | D30 | D2000 | 1v/1v HS | 3

Weight: 85g

This is a remote switch with a 2.6 ft/80cm cord and a self-timer, interval timer, long-exposure timer, and exposure-count setting feature. The timer can be set anywhere from 1 sec. to 99 hours, 59 min., 59 sec. A new dial enables you to easily enter the numeric settings with a single thumb. The LCD panel can also be illuminated. It has the new N-3 type connector, which locks with a simple push. The rear of the Controller has a slot to store the camera's remote control socket cap.

Remote Controller Accessories

Extension Cord ET-1000N3

1Ds | 1D Mark II | 1D | 10D | D60 | D30 | D2000 | 1v/1v HS | 3

For remote picture-taking situations this 33ft/10m extension cord connects compatible EOS bodies with Timer Remote Controller TC-80N3 or Remote Switch RS-80N3.

Remote Switch Adapter RA-N3

1Ds | 1D Mark II | 1D | 10D | D60 | D30 | D2000 | 1v/1v HS | 3

This plug adapter enables old-model, T3 Terminal-equipped accessories (such as Wireless Controller LC-3) to be connected to cameras with the new N-3 type remote control socket.

Remote Switch 60T3

1N RS | 1N | 1 | 5 | RT* | 600* | 620* | 650*

This is an electromagnetic cable release fitted with a 2ft/60cm cord and a three-pin terminal that allows independent control of light metering and shutter release.

Extension Cord 1000T3

1N RS | 1N | 1 | 5 | RT* | 600* | 620* | 650*

This 33ft/10m cord can be used with any other T3 accessory for extension.

Remote Switch Adapter T3

1N RS | 1N | 1 | 5 | RT* | 600* | 620* | 650*

This small adapter cord enables use of remote control devices with standard two-pin subminiature jacks with T3-compatible EOS cameras.

Cable Release Adapter T3

1N RS | 1N | 1 | 5 | RT* | 600* | 620* | 650*

This adapter accepts a conventional mechanical cable release, and allows it to be used on cameras with the electronic T3-type remote control socket.

Remote Switch RS-60E3

300D | 30V/33V | 30/33 | 50/50E | 300V | 300 | 500N | 3000N | IX | 500

A compact remote switch with a 2ft/60cm. cable replicating all the functions of the camera's shutter release button.

Wireless Remote Controller RC-5

300D | 30V/33V | 30/33 | 50/50E | 100 | 300V | IX | 10

Small enough to fit in your pocket, this handy remote control operates as far as 16ft/5m from the camera.

Wireless Remote Controller RC-1

300D | 30V/33V | 30/33 | 50/50E | 100 | 300V | IX | 10

This miniature infrared transmitter operates at ranges up to 16.4ft/5m, and may be set for either instant shutter release or two-second delay. The RC-1 may also be used to activate mirror lock and bulb shutter functions.

* EOS RT, 650, 600 and 620 require Grip GR-20 with built-in T3 remote socket.

VIEWING ACCESSORIES

Eyecup Eb

10 | 100 | 700 | 750 | 850 | 10D | D60 | D30 | 3000N | 3000V | 300V | 500 | 500N

Eyecup Ec-II

1Ds | 1D Mark II | 1D | D2000 | 1V/1V HS | 1N RS | 1N | 1

Eyecup Ed

3 | 5 | 30V/33V | 30/33 | 50/50E

Eyecup Ef

300D | 300V | 3000V

Anti-Fog Eyepiece Ec

1Ds | 1D Mark II | 1D | 1v/1v HS | 1N RS | 1N | 1

Anti-Fog Eyepiece Ed

3 | 5 | 30/33 | 30V/33V | 50/50E

These Eyecups use specially treated advanced-process glass, which prevents condensation, or fogging. The eyecups are useful in warm, humid and cold weather, when fogging is most likely to occur.

Rubber Frame Eb

10 | 100 | 10D | D60 | D30 | 3000N | 3000V | 500 | 500N

Rubber Frame Ec

1Ds | 1D | D2000 | 1V/1V HS | 1N RS | 1N | 1

Rubber Frame Ef

300D | 300V | 3000V

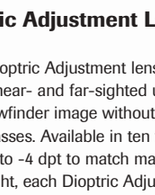
Rubber Frames are used with Dioptric Adjustment lens E.

Dioptric Adjustment Lens

These Dioptric Adjustment lenses provide near- and far-sighted users a clear viewfinder image without the use of eyeglasses. Available in ten types from +3 to -4 dpt to match many types of eyesight, each Dioptric Adjustment Lens fits into the eyepiece holders of the appropriate EOS model for convenient use and a comfortable fit.

Dioptric Adjustment Lens E
(without Rubber Frame)

ALL
except 3 | 5 | 30V/33V | 30/33
or 50/50E | IX | IX 7



Dioptric Adjustment Lens Ed
(without Rubber Frame)

3 | 5 | 30V/33V | 30/33 | 50/50E

EF 500mm f/4.5L USM • 1/750 • f/4.5 • ISO 50

Eyecup Ed-E

3 | 5 | 30/33 | 30V/33V | 50/50E

This large eyecup designed for the EOS-3, EOS 5, EOS 30V/33V and EOS 50/50E keeps out most sunlight and other external light, substantial enhancing viewfinder visibility.
It is especially helpful for eyeglass wearers when photographing outdoors. The mount can be rotated for vertical shots.

Must be slid up when opening/closing camera's back cover.

Eyepiece Extender EP-EX15

ALL
except 30/33 | 30V/33V | 50/50E | IX | IX 7

Extends the eyepiece 15mm from the camera body and reduces viewfinder magnification by 30%. Useful for eyeglass wearers and others to keep the tip of the nose from touching the camera body.

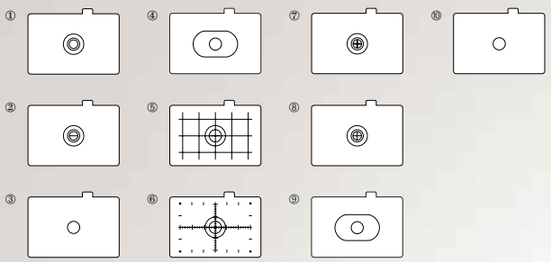
Angle Finder C set

ALL

Angle Finder C lets users adjust the viewing angle while providing a 2.5x magnification for critical focusing with a full screen image that includes exposure data. Provided with built-in dioptric adjustment for variations in eyesight, Angle Finder C includes Adapter Ec-C and Ed-C to fit any EOS camera.

Ec Series

1Ds | 1D Mark II | 1D | D2000 | 1V/1V HS | 1N RS | 1N | 1 | 3



① **Ec-A: Microprism:** This matte field screen with microprism focusing spot in the centre is used for general photography with all lenses. It achieves best results when using a lens of f/5.6 or faster.

② **Ec-B: New Split:** This matte field screen with split-image focusing spot in the centre is good for general photography with all lenses.

③ **Ec-CII: Standard Laser-Matte:** This matte field screen with spot metering mark in centre is the standard screen for the EOS-1N.

④ **Ec-CIII: Laser-Matte:** Standard on the EOS-1D / EOS-1Ds, and EOS-1v / EOS-1v HS, and compatible with all EF lenses, this screen includes an Area AF ellipse and spotmetering circle. Manual focus can be checked anywhere on the screen.

⑤ **Ec-D: Laser-Matte with Sections:** This is a matte field screen with sections. Grid lines assist in determining accurate picture composition. It is especially well-suited for close-up photography or for copy work using EF macro lenses. It can also be used for general photography with all lenses.

⑥ **Ec-H: Laser-Matte with Scale:** A matte field screen with vertical and horizontal scales marked in millimeters, this screen is effective for close-up photography and photomicrography. Useful in determining magnification ratios and composition, this screen can be used with all lenses.

⑦ **Ec-I: Laser-Matte with Double Cross-Hair Reticle:** This is a matte field screen with a clear centre spot containing a double cross-hair reticule. Focusing is possible using the floating image of the central cross hair. This screen is particularly useful for photomicrography and astrophotography. Surrounding matte field can be used with all lenses.

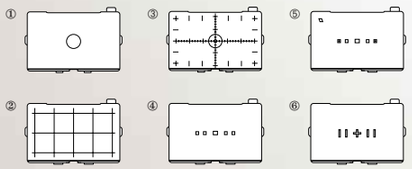
⑧ **Ec-L: Cross-Split Image:** This matte field screen has a cross-split image in the centre, which divides the subject in half both vertically and horizontally for accurate manual focusing. Used for general photography with all lenses, best results are obtained when using a lens of f/5.6 or faster.

⑨ **Ec-N: New Laser-Matte:** This is the standard screen for the EOS-3. The outer oval-shaped area defines the coverage lot of the 45 AF points; the inner circle is for spot end FEL metering. When you shoot, the focusing points will be indicated in red LCD markings. Along with the Ec-R screen, it is approximately a 1/2 stop brighter than the Laser-Matte series screens.

⑩ **Ec-R: New Laser-Matte:** This is the standard screen provided with the EOS-1N RS. It compensates for decreased viewfinder brightness due to the low reflection factor of the pellicle mirror. It is about a 1/2-stop brighter but otherwise similar to Focusing Screen Ec-CII.

Ed Series

EOS 5



① **Ed-C: New Laser-Matte:** This screen is used for general photography with all lenses.

② **Ed-D: Laser-Matte with Sections:** This matte field screen with sections has grid lines to assist in determining accurate picture composition. Especially well-suited for close-up photography or for copy work using EF macro lenses, this screen can also be used for general photography with all lenses.

③ **Ed-H: Laser-Matte with Scale:** This matte field screen with vertical and horizontal scales marked in millimeters is compatible with all lenses. It is effective for close-up photography and photomicrography, and useful in determining magnification ratios and composition.

④ **Ed-N: New Laser-Matte with AF Frames:** Standard with the EOS A2, this screen has five AF frames, and is excellent for general photography with all lenses.

⑤ **Ed-Ne: New Laser-Matte with AF Frames:** A matte field screen with five AF frames, Eye Controlled Focus calibration marks, and depth-of-field check mark, this screen comes standard with the EOS 5/A2E.

⑥ **Ed-0: New Laser-Matte with AF Sensor Marks:** This matte field screen with five AF sensor marks is helpful in determining optimum subjects for the AF system.

Note: EOS-1Ds, EOS-1D Mark II, EOS-1v and EOS-1v HS – If using New Laser Matte Focus Screens Ec-N or Ec-R, be sure to set camera's Custom Function C.Fn-0 to "0". EOS-3 – If using Laser Matte Ec-A, Ec-B, Ec-C II, Ec-C III, Ec-D, Ec-I or Ec-L focus screens, be sure to set camera's Custom Function C.Fn-0 to "1". Exposure compensation is required when combining the focusing screen Ec-R with the EOS-1 or EOS-1N, and when combining the focusing screens Ec-A, B, CII, D, H, I and L with the EOS-1N RS. Refer to each focusing screen's instructions for detailed information.

CanoScan FS4000 US

Offering true 4,000 dpi optical resolution, bit depth up to 14 bits per channel and Canon-developed FARE dust and scratch removal technology, the new FS 4000 US film scanner can generate files from 35mm film up to 58MB in size, with incredible detail and tonal range.

It's outstanding for producing files for printing poster-size prints, for use on the web or anything in between. With a dual interface – USB or SCSI-II – this scanner is compatible with both Macintosh and Microsoft® Windows® operating systems.

FARE | USB | SCSI

EOS Link Software ES-E1

1V/1V HS

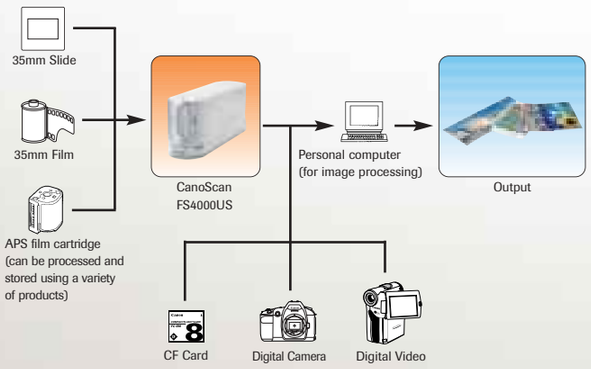
The EOS Link Software, compatible with Windows 98/2000/Me/XP and Macintosh OS 9, gives EOS-1v photographers a computer interface for advanced customisation and management of shooting data. This optional accessory comprises two software applications. EOS-1v Memory is used for downloading up to 25 different types of shooting data from the camera such as exposure information, date, time and more with each frame of film. The software is then used to view, edit and search the data. Photographers can even add thumbnail images to the shooting data after the film has been processed. EOS-1v Remote is intended for advanced Personal Function customisation of the Canon EOS-1v camera, so photographers can program it to reflect their personal preferences, shooting purposes and conditions. It also allows the management of data relating to settings used for exposed film.

Slide Mount Holder

35mm Filmstrip Holder

APS Film Cartridge Holder

Imaging System Configuration



i965 Photo Printer

10D* | 300D

The i965 photo printer creates outstanding quality photographic prints using tiny 2 picolitre ink droplets at up to 4800 x 2400 dpi. Its 3,072 nozzles ensure fast, borderless photos in 4" x 6", 5" x 7" and 8.5" x 11" sizes. You'll even be able to print directly from compatible digital cameras. With a handy 4" x 6" dual paper feed as well as six individual, cost-saving ink tanks, it adds convenience and reduces costs.

i80 Bubble Jet Printer

10D* | 300D

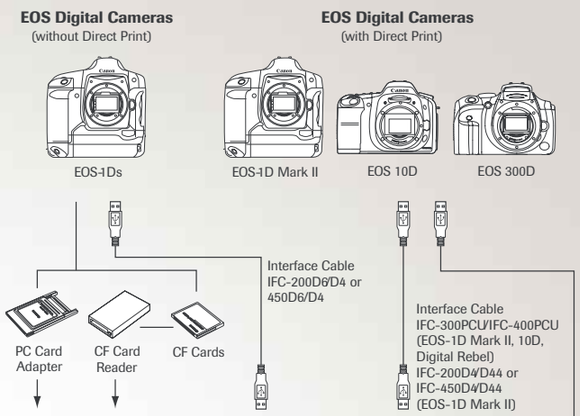
Compact and fast, this portable printer prints up to 14 ppm black and 10 ppm colour in outstanding quality (2 picolitre droplets at up to 4800 x 1200 colour dpi). Print directly from compatible digital cameras (using PictBridge technology) and wirelessly from any Bluetooth-enabled device. Create borderless photo prints in 4" x 6", 5" x 7" and 8.5" x 11" sizes. The i80 also comes with a range of optional mobile accessories, for even greater mobile printing freedom.

Card Photo Printer CP-330/CP-220

10D* | 300D | 1D Mark II

Ultra-light and compact, the new Canon CP-330 and CP-220 Card Photo Printers make it easier than ever before to print radiant, professional-quality photos that match the appearance and long life of images produced by traditional film processes right at home. These printers have a resolution of 300dpi and 256 levels of colour so you can create richly detailed prints. Dye-Sublimation technology controls the ink flow to deliver a full range of realistic tones and shadings, so colour is natural and true to life. Just plug in a select Canon digital camera or PictBridge-supported digital camera. Choose print size: 4" x 6" or credit card size. Do borders or go borderless. Even print labels. It's up to you. It's amazingly simple because you operate it all straight from your camera without ever touching a computer. For even greater mobility, use the rechargeable battery (CP-330 only) or optional car battery adapter.

Canon Digital Photo Solutions



Borderless Print Sizes			
13" x 19"	–	–	–
8.5" x 11"	•	•	–
5" x 7"	•	•	–
4" x 6"	•	•	•
Credit Card Size	–	–	•
Credit Card Size Label	–	–	•
8 Mini-labels	–	–	•
System Compatibility			
Direct Printing	•	•	•
Exif Print	•	•	•
Easy-PhotoPrint	•	•	•
Borderless Printing	•	•	•
Think Tank System	•	•	–
Microfine Droplet Technology	•	•	–
Certified USB	•	•	•
PictBridge	•	•	•
DPOF	•	•	•

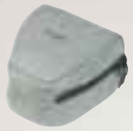
CASES AND STRAPS

Semi-Hard Case EH16-L

300D

Semi-Hard Cases EH11

1v/1v HS | 3



Semi-Hard Case EH15-L

300V | 3000V

Semi-Hard Cases EH8N

500N/3000N

Semi-Hard Case EH14-L

30V/33V | 30/33

Semi-Hard Case EH13-L

3000V

For information on other Semi-Hard case models, please see your Canon EOS dealer.
Some lenses discontinued. Shown for reference only.

Model	EOS 300D	EOS 1v / EOS-3		EOS 30V/33V 30/33	EOS 300V/ 3000V	EOS 300	EOS 500N EOS 3000N	
	EH16-L	EH11-L	EH11-LL	EH14-L	EH15	EH13-L	EH8N-L	EH8N-LL
EF 14mm f/2.8L USM			△					
EF 15mm f/2.8 Fish-eye				△	△	△	○	
EF 20mm f/2.8 USM	▼	○			▼	▼		▼
EF 24mm f/1.4L USM								
EF 24mm f/2.8		○			△	△	△	
EF 28mm f/1.8 USM					△	△	○	△
EF 28mm f/2.8					△	△	△	
EF 35mm f/2					△	△	△	
EF 50mm f/1.0L USM		▼	△					
EF 50mm f/1.4 USM					▼	▼	○	△
EF 50mm f/1.8 II					△	△	△	
EF 50mm f/2.5 Compact Macro				△	○	○	○	○
EF 50mm f/2.5 Compact Macro + Life-size converter		○						
EF 85mm f/1.2L USM		▼	△					○
EF 85mm f/1.8 USM	○	○		○				○
EF 100mm f/2 USM	○	○		○				○
EF 100mm f/2.8 Macro			○					
EF 135mm f/2.8 w/ Soft Focus			○					
EF 16-35mm f/2.8L USM			○					
EF 17-35mm f/2.8L USM								
EF-S 18-55mm f/3.5-5.6	○							
EF 20-35mm f/2.8L			○					
EF 20-35mm f/3.5-4.5 USM		○		▼				▼
EF 22-55mm f/4-5.6 USM	○				△	△	○	
EF 24-70mm f/2.8L USM								
EF 24-85mm f/3.5-4.5 USM	○	○		○	▼	▼	▼	○
EF 28-70mm f/2.8L USM	○							
EF 28-70mm f/3.5-4.5 II	○	○		○	▼	▼		○
EF 28-80mm f/3.5-5.6 II USM	○	△		○	○	○	▼	○
EF 28-80mm f/3.5-5.6 III USM	○	△		○	○	○	▼	○
EF 28-80mm f/3.5-5.6 IV USM	○	○		○	○	○	▼	○
EF 28-80mm f/3.5-5.6 V USM	○	○		○	○	○		
EF 28-80mm f/3.5-5.6 USM	○	○		○	▼	▼		○
EF 28-80mm f/3.5-5.6	○			○	○	○		○
EF 28-90mm f/4-5.6 II USM	○	△		○	○	○	▼	○
EF 28-90mm f/4-5.6 USM	○			○				
EF 28-105mm f/4-5.6 USM	○	△		○	○	▼	▼	○
EF 28-105mm f/3.5-4.5 USM	○	○		○				○
EF 28-135mm f/3.5-5.6 IS USM			○					
EF 35-80mm f/4-5.6 USM	○			△				
EF 35-80mm f/4-5.6 III	○			△	○	○	○	▼
EF 35-105mm f/4.5-5.6 USM	○	△			○	○	▼	○
EF 35-105mm f/4.5-5.6	○			○			○	
EF 35-105mm f/3.5-4.5					△	△	○	○
EF 35-135mm f/4-5.6 USM		○		○				▼
EF 35-135mm f/3.5-4.5		○						
EF 50-200mm f/3.5-4.5L			△					
EF 55-200mm f/4.5-5.6 USM			△					
EF 55-200mm f/4.5-5.6 II USM								
EF 70-200mm f/2.8L USM			○					
EF 80-200mm f/4.5-5.6 USM	▼			▼				
EF 80-200mm f/4.5-5.6 II	▼		○	▼	▼	▼		○
EF 80-200mm f/4.5-5.6	▼		○	▼	▼	▼		
EF 100-200mm f/4.5					▼	▼		▼

○: Fits △: Large, but can be used ▼: Fits without filter or hood

Wide Lens Strap

Colour: Black

This heavy-duty strap for is perfect for super-telephoto lenses.

Digital EOS Strap (L4)

Colour: Black

This heavy-duty strap is designed for the EOS-1D Mark II and 1Ds.

EOS Wide Neck Strap EW-100

Colour: Black

Designed to carry EOS or other cameras safely and comfortably, this strap features a built-in eyepiece cover for EOS Autofocus SLR cameras.

Canon Australia Pty. Ltd.
ABN 66 005 002 951

1 Thomas Holt Drive,
North Ryde, NSW 2113, Australia
Freecall: 1800 021 167
Facsimile No: + 61 2 9805 2632

Canon New Zealand Limited
Akoranga Business Park, Akoranga Drive
Northcote, Auckland, New Zealand
Freecall: 0800 222 666
Facsimile No: + 64 9 489 0380

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