

you can
Canon EF Lenses



Perspective

A small, unkempt city garden. To the average observer, it is entirely unremarkable. But take a closer look and you’ll see what others can’t.

Captured by Jay Dykes through a Canon EF 100mm f/2.8 Macro USM lens, his garden suddenly transforms into a towering jungle of monstrous beasts and brilliantly hued beauties. Minute detail and indiscernible expression are magically brought to life. That’s what makes SLR photography so special: the ability to explore a world beyond human perspective. To turn everyday into extraordinary. To go where the human eye cannot.

Canon’s EF Lens system – the world’s most comprehensive – is the product of more than six decades at the forefront of optical innovation. From the 14mm extreme wide angle to the 600mm super telephoto, each of the more than 60 lenses in the EF series brings a unique dimension to your photographic vision.

Every element of every EF lens is designed meticulously. Its materials are painstakingly inspected and its surface ground precisely, all to create an interchangeable lens of uncompromising quality that reaches beyond human limitations. Our pursuit of optical perfection continues, driving ever faster performance, wider angles, longer focal lengths and a level of accuracy that knows no equal.

Chosen by professionals the world over, the L series represents the crystallisation of Canon’s long optical heritage. L series lenses incorporate the highest quality optical materials, each lens engineered to withstand demanding environments in the field. The EF-S series of lenses opens up wider angles of view to EOS photographers with digital SLR cameras, such as the EOS 30D or EOS 400D.

Pioneering developments have been incorporated throughout the entire range. The world’s first lens-based Image Stabiliser system. Smaller, lighter telephoto lenses using diffractive optical (DO) elements. Rapid, silent auto focus through ultrasonic motors (USM). All these innovations are now found in almost every EF lens.

As long as photographers like Jay Dykes continue to push creative boundaries, Canon will continue to push the technical limits.



Jay Dykes
Web consultant
“Most gardeners would consider these pests. But I have my own particular theory of gardening. For me a rose aphid is every bit as fascinating as the flower itself.”

Lens Technology

For more than half a century, Canon’s commitment to research has consistently raised the bar for SLR lens specifications. This promise of innovation is embodied in every one of the more than 60 EF lenses now available.



Daniel Baumann
Private banker
“So much in our world is transient. What I love about photography is the ability to ‘freeze’ the beauty of nature, so everyone can experience something as simple as a cluster of raindrops.”

ULTRASONIC MOTOR (USM)

The world’s first lens-based motor that harnesses ultrasonic oscillation energy to drive virtually noiseless auto focus, which on some lenses is literally faster than the human eye. The USM can stop without overshooting the instant focus is achieved.

IMAGE STABILISER

Some Canon EF lenses incorporate an Image Stabiliser (IS) to reduce camera shake. This is particularly useful with close-ups, slow shutter speeds and when a tripod can’t be used. Optical shake is detected by gyro sensors which provide data to neutralise it. Some EF lenses have an additional IS mode for panning shots.

ASPHERICAL ELEMENTS

Unless corrected, light rays entering conventional lens elements converge at slightly different focal points. Known as spherical aberration, this phenomenon produces soft, low contrast images that look as if covered with a thin veil. Canon was the first company in the world to correct this error in an SLR lens by incorporating an aspherical lens element. Now found in nearly every EF lens, these special elements help deliver corner-to-corner sharpness and clarity.

SUPER SPECTRA COATING

Light reflecting off lens elements and a digital camera’s sensor can result in significant light loss and cause ghosting (secondary images) and flare (washed out image). To eliminate harmful reflections, the latest EF lenses are treated with Canon’s patented multi-layer Super Spectra coating, which absorbs light rather than reflecting it.

FLUORITE AND UD LENS ELEMENTS

Canon has pioneered the development of Fluorite and UD lens elements for correcting chromatic aberrations. These aberrations are defects caused by different wavelengths or colors of light refracting by different amounts as they pass through conventional optical glass elements. With their special diffraction properties, Fluorite and UD lens elements correct such aberrations to deliver high contrast, sharpness and accurate colour reproduction.

DIFFRACTIVE OPTICAL ELEMENT

Canon’s EF 400mm f/4 DO IS USM and EF 70-300mm f/4.5-5.6 DO IS USM are the only two camera lenses in the world to incorporate multi-layer diffractive optical (DO) elements. Developed by a small team of young Canon engineers, DO lens elements have special optical properties that pave the way for extremely light and seriously compact telephoto lenses.

Making sense of EF lens codes

Each EF lens is identified by a series of codes which provide important information about its unique characteristics.

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

100-400mm – refers to focal length, which relates to a lens’ angle of view. The lower the number, the wider the lens’ angle of view; the higher the number, the more powerful it is at bringing distant objects closer. If there is only one number, the lens has a fixed focal length. A number range indicates a zoom lens.

f/4.5-5.6 – refers to the lens’ minimum ‘F number’, a function of the lens’ aperture diameter. The lower the number, the ‘brighter’ and generally more useful the lens. A number range indicates the minimum F number at each of the extremes of the lens’ zoom range.

L – indicates a professional L-series lens – the ultimate in image performance and operability, with protection against weather and with protection against the elements. L-series lenses include special optical materials such as fluorite, ultra-low dispersion (UD) or super UD elements.

IS – refers to Image Stabiliser. Image Stabiliser lenses detect and compensate for unwanted movement, allowing for the use of shutter speeds up to three stops slower than would otherwise be possible.

USM – indicates an Ultra Sonic Motor. Technology pioneered by Canon to produce highly responsive, super fast focusing with excellent holding torque.

Other lens codes you may come across:

DO – indicates the use of multi-layer Diffractive Optical elements. This revolutionary technology, unique to Canon, enables the manufacture of smaller, lighter and outstanding performance photo lenses.

EF-S – EF lenses designed fit EOS models with the EF-S mount.

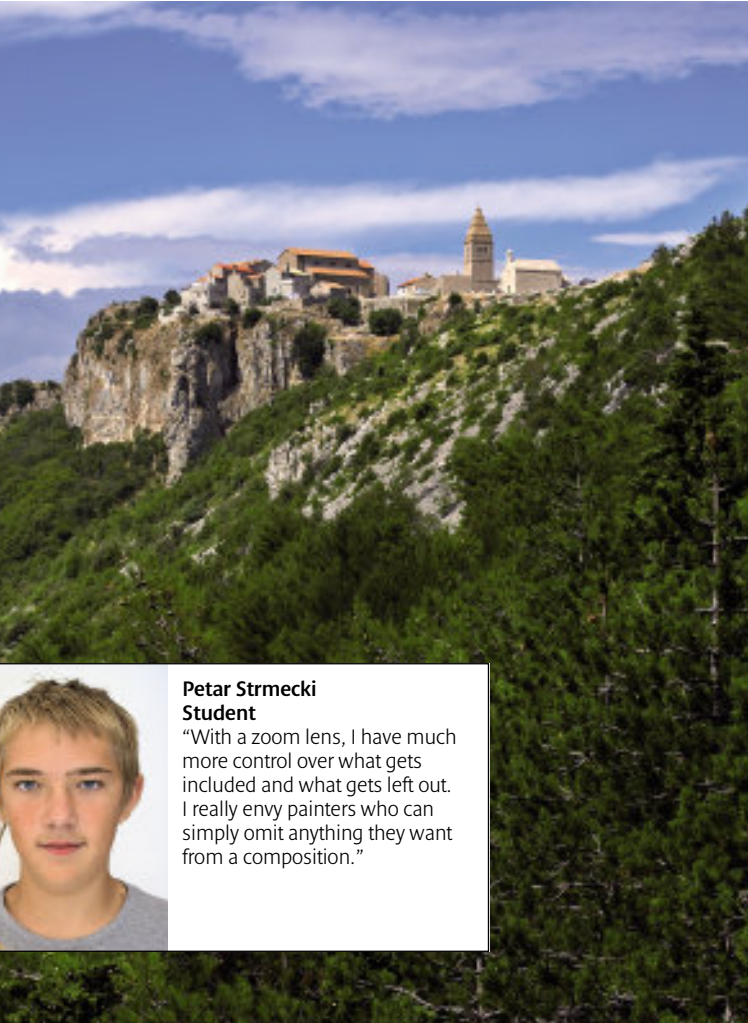
MP-E – lens specially designed for macro photography.

Macro – sometimes known as close-up lenses. Macro lenses have the ability to focus an image on the film or sensor that is at least as large as the subject. This is a magnification of 1:1.

II or III, etc. – indicate the version of the lens. Existing lenses are often redesigned to improve their performance or operability.

TS-E – specialist tilt/shift lenses that allow correction of perspective distortion and control over the angle of the focal plane. These lenses are often used for architectural interiors and exteriors.

Extender – lenses that fit between the camera body and master lens to deliver focal length magnification.



Petar Strmecki Student
“With a zoom lens, I have much more control over what gets included and what gets left out. I really envy painters who can simply omit anything they want from a composition.”

Fixed Focal Length Lenses

Fixed focal length lenses generally offer a wider maximum aperture than zoom lenses.



EF 15mm f/2.8 Fisheye

180° angle of view captures a wide-area in a single frame.



EF 14mm f/2.8L USM
EF 20mm f/2.8 USM

Extreme wide angle, ideal for shooting indoors in cramped spaces or for creative effects outdoors.



EF 24mm f/1.4L USM
EF 24mm f/2.8

Wide angle lenses, particularly useful for landscape photography. Also useful for many other subjects, including portraits.



EF 28mm f/1.8 USM
EF 28mm f/2.8

Wide angle lenses, particularly useful for landscape photography. Also useful for many other subjects, including interior photography.



EF 35mm f/1.4L USM
EF 35mm f/2



EF 50mm f/1.2L USM
EF 50mm f/1.4 USM
EF 50mm f/1.8 II

Standard lenses to suit most subjects.



EF 85mm f/1.2L II USM



EF 85mm f/1.8 USM



EF 100mm f/2.0 USM



EF 135mm f/2.0L USM

Short telephoto lenses, ideal for portraits and many other subjects.



EF 135mm f/2.8 with Soft Focus

This unusual lens can be used as a normal 135mm, but it is also suitable to set different strengths of soft focus. Designed for portrait work but also suitable for other subjects.



EF 200mm f/2.8 II USM



EF 400mm f/5.6L USM

These longer telephoto lenses are used extensively by wildlife, sports and news photographers.

Zoom Lenses

Zoom lenses offer the equivalent of two or more fixed focal length lenses in one unit. The maximum aperture of some zoom lenses can change as you alter the focal length, but Through-The-Lens (TTL) metering takes this into account to give correct exposure.



EF 16-35mm f/2.8 II USM

Wide angle zooms, ideal for interiors and landscapes.



EF 17-40mm f/4L USM



EF 20-35mm f/3.5-4.5 USM



EF 16-35mm f/2.8L II USM

This fast, ultra wide-angle zoom lens delivers the ultimate in professional L-series performance.

Offering a constant f/2.8 aperture, the EF 16-35mm f/2.8L II USM maintains superior image quality throughout its focal range. Aspherical lens elements ensure high peripheral sharpness and contrast at large apertures, while two UD lens elements virtually eliminate chromatic aberration. A circular aperture diaphragm produces pleasing background blur for abstract and portrait photography. Providing fast, quiet auto focus with full-time manual override, this robust lens incorporates the superb build quality and weather resistance that are hallmarks Canon’s professional L-series.



EF 24-70mm f/2.8L USM
EF 24-85mm f/3.5-4.5 USM



EF 28-90mm f/4-5.6 III
EF 28-105mm f/3.5-4.5 II USM
EF 28-105mm f/4-5.6



EF 28-105mm f/4-5.6 USM
EF 28-200mm f/3.5-5.6 USM

Canon’s biggest group of lenses, referred to as standard zooms (a standard zoom is any lens with 50mm in its zoom range). Most EOS owners will own at least one.



EF 55-200mm f/4.5-5.6 II USM
EF 70-200mm f/2.8L USM*
EF 70-200mm f/4L USM



EF 75-300mm f/4-5.6 III
EF 75-300mm f/4-5.6 III USM
EF 90-300mm f/4.5-5.6



EF 90-300mm f/4.5-5.6 USM
EF 100-300mm f/4.5-5.6 USM

Telephoto zooms are good general purpose lenses. Add a standard zoom such as the EF 24-85mm f/3.5-4.5 USM to your photographic arsenal and you’ll have most of the focal lengths you’re likely to need.

* Product discontinued

EF-S: Special lenses for compact sensors

The compact sensor found on EOS models with the EF-S lens mount has the effect of magnifying the focal length of attached lenses by 1.6x. To provide this category of camera owners more wide angle choice, Canon developed a new range of lightweight EF-S lenses.



EF-S 60mm f/2.8 Macro USM
EF-S 10-22mm f/3.5-4.5 USM



EF-S 17-55mm f/2.8 IS USM



EF-S 17-85mm f/4-5.6 IS USM
EF-S 18-55mm II f/3.5-5.6

Image Stabilised Lenses

Built-in gyro sensors control an Image Stabiliser within the lens. These shift in response to movement and reduce the effects of camera shake. When you're shooting hand-held it's possible to use a shutter speed two to three stops slower than normal without any increase in image blur.



EF 28-135mm f/3.5-5.6 IS USM



EF 24-105mm f/4L IS USM



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



EF 70-200mm f/4L IS USM EF 70-200mm f/2.8L IS USM EF 70-300mm f/4-5.6 IS USM EF 100-400mm f/4.5-5.6L IS USM

Zoom IS lenses are mostly general purpose. Use them at your normal shutter speeds and you'll see an improvement in picture sharpness.



EF 300mm f/2.8L IS USM
EF 300mm f/4L IS USM
EF 400mm f/2.8L IS USM



EF 500mm f/4L IS USM
EF 600mm f/4L IS USM

These fixed focal length IS lenses are especially popular with sports and wildlife photographers.



Vilhelm Gunnarsson
Photojournalist
“With 20 hours of sunlight in summer and some pretty extreme weather and geography, you can always count on Iceland for exciting and unusual lighting effects.”

Diffractive Optical Lenses

Diffractive Optical (DO) lenses represent a new level in professional telephoto lenses. New technology delivers optical characteristics unavailable in traditional lenses, dramatically decreasing size and weight. Lens coatings are optimised to minimise the ghosting and flare that sometimes can occur when the lens is used with a digital camera.





EF 70-300mm f/4.5-5.6 DO IS USM

EF 400mm f/4 DO IS USM

Ideal for long range photographic applications such as sports and wildlife.

Tilt-and-shift Lenses

These lenses can be tilted at an angle to the camera body, and the lens axis can be shifted away from the centre of the frame. This allows correction of perspective distortion and the manipulation of depth-of-field.







TS-E 24mm f/3.5L

TS-E 45mm f/2.8

TS-E 90mm f/2.8

Ideal for architectural work and close-up photography. No auto-focusing.

Jay Dykes
Web consultant
“I’ve done my best to count the rings on this tree stump on several occasions. Let’s just say that we’d all be very lucky to live as long as this tree did!”

Macro Lenses

Macro lenses are designed for close-up photography. Although most of them focus to infinity, their optimum performance is at close focusing distances.







EF 50mm f/2.5 Compact Macro

Gives a maximum magnification of 0.5x (half life-size).

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

This specialist lens only focuses between magnifications of 1x and 5x. Particularly useful for wildlife photography enthusiasts. No auto-focusing.

EF 100mm f/2.8 Macro USM
EF 180mm f/3.5L Macro USM

These lenses focus close enough to provide life-size images.

Extenders

Extender is Canon’s name for a teleconverter. These high performance accessories multiply the effective focal length of an attached lens by 1.4x or 2x. For example, a 200mm lens with a 1.4x Extender has an effective focal length of 280mm. With a 2x Extender, this increases to 400mm.

Extenders are only compatible with selected EF lenses, including the EF 70-200mm f/2.8L USM, EF 70-200mm f/2.8L IS USM, EF 70-200mm f/4L USM, EF 100-400mm f/4.5-5.6L IS USM, EF 400mm f/4 DO IS USM and fixed focal length L-series lenses of 135mm or higher.





Extender EF 1.4x II

Extender EF 2x II

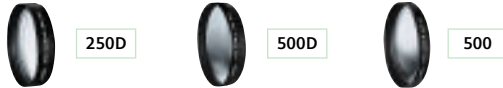
The extenders decrease the effective apertures of lenses to which they are attached by just one or two stops respectively.

Accessories

Filters

			
Protect Filter This neutral filter protects your lens while maintaining perfect colour balance. Super Spectra coating prevents harmful light reflections. For general photography. Available sizes: 52mm, 58mm, 67mm, 72mm, 77mm, 82mm	UV Filter This colourless filter absorbs ultraviolet light without cutting visible light. It's most effective on sunny days for cutting haze in distant landscape shots, especially when using black-and-white film. The filter has no effect on exposure and minimal effect on colour temperature. UV filters can also be used as protective filters for general photography. Available sizes: 52mm, 58mm, 72mm	ND4L Filter Neutral Density (ND) filters are used with colour and black-and-white film to reduce light entering the lens to a quarter (two f/stops) the original level at all wavelengths. The surface of this high-quality L-class filter features a vacuum-deposited light-absorbent material. Available sizes: 52mm, 58mm, 72mm	Softmat Filters No. 1 & No. 2 Softmat filters soften focus, making them ideal for flattering portraits and dreamy landscapes. They utilise the diffraction that occurs between light passing through the filter's transparent and coated part. Softmat No. 1 filter gives gentle soft focus, Softmat No. 2 a stronger effect. Available sizes: 52mm, 58mm
			
Skylight Filter This light amber skylight filter can be used for both black-and-white and colour film for daylight exposures on sunny days. It reduces the blue cast that occurs with sky and water reflections and when photographing subjects in shadows. By blocking short wavelengths on sunny days, it warms colour temperature slightly without altering exposure. For general photography. Available sizes: 52mm, 58mm, 72mm	PL-C Filter This Polarising filter enhances image quality by blocking harmful reflected light. It reduces polarised light reflections from the surface of glass and water, and also improves colour saturation. Simple to use, Circular Polarising filters (such as Canon's PL-C) polarise light circularly rather than linearly. This means that auto-focus and TTL light metering is not affected. Available sizes: 52mm, 58mm, 67mm, 72mm, 77mm	ND8L Filters This filter reduces light entering the lens to 1/8 (three f/stops) the original level. Invaluable for large-aperture and slow-shutter-speed photography. Available sizes: 52mm, 58mm, 72mm	Gelatin Filter Holder E One holder, allowing up to three gelatin filters to be fitted. Available sizes: 52mm, 58mm, 72mm, 77mm
			
Drop-in Filters PL-C Drop-in filters PL-C can be rotated from the outside without removing them from the lens, allowing precise control. The 52mm PL-C filter can be used with the EF 300mm f/2.8L IS USM, EF 400mm f/2.8L IS USM, EF 500mm f/4L IS USM and EF 600mm f/4L IS USM lenses. Available sizes: 48mm, 52mm	Drop-in Screw Filter Holders with Protect Filters This device allows regular Protect filters (supplied) to be exchanged with other commercially available screw-type filters. Note that only filters with the correct filter frame thickness can be mounted on the lens. Available sizes: 48mm, 52mm	Drop-in Gelatin Filter Holders These glass-backed holders accept up to three commercially available cut-to-size gelatin filters for rear-insertion lenses. A 52mm holder is provided as standard with the EF 300mm f/2.8L IS USM, EF 400mm f/2.8L IS USM, EF 500mm f/4L IS USM and EF 600mm f/4L IS USM lenses. Available sizes: 48mm, 52mm	Gelatin Filter Holders III & IV Gelatin Filter Holder III uses 3 x 3 inch gelatin filters. Gelatin Filter Holder IV uses 4 x 4 inch gelatin filters. Both Holders provide extension hoods and Ø 52mm, 58mm, 67mm, 72mm and 77mm adapters. Refer to the EF Lens Accessory Table for information on lens combinations. Available sizes: 52mm, 58mm, 72mm, 77mm

Close-up Accessories

		
Close-up Lenses Close-up lenses screw to the filter mount at the front of the lens, providing a simple, inexpensive method of increasing subject magnification. There is no loss of light and all camera and lens functions are retained. However, auto-focusing is not always effective and manual focusing is recommended. Three Canon close-up lenses are available. The close-up lenses 250D and 500D both use two lens elements to reduce colour aberrations. The close-up lens 500 is a one-element accessory for low-cost close-up photography. The 250D is recommended for lens focal lengths from 38mm to 135mm and is available with a 52mm or 58mm filter thread. The 500D and 500 lenses are recommended for focal lengths from 75mm to 300mm and are available with a filter thread of 52mm, 58mm, 72mm or 77mm.	EF Extension Tubes Extension tubes fit between the lens and the camera body and allow the lens to focus much closer than normal, giving increased magnification. The larger the amount of extension and the shorter the focal length of the lens used, the greater the increase in magnification. However, especially when using wide angle lenses to obtain high magnifications, working distances can get very short.	EF Extenders Extenders increase the effective focal length of lenses while retaining the minimum focusing distance. The focal length is increased by the factor indicated. Extenders are only compatible with a selected range of EF telephoto and they can also be combined with extension tubes and close-up lenses for close-up and macro photography.

Loupes

	
Loupe 4x and 8x Canon Loupe 4x and 8x are high-performance magnifiers for viewing film in high resolution with colour-aberration. Super Spectra coating ensures a clear image which is fully effective for work such as final checking of film shot with an EF lens.	Lens Hoods Shield your lenses from extraneous light and prevent flare spoiling your images. Lens Cases Functional, rugged and well designed. Indispensable for protecting valuable lenses.



Lenses Specifications Chart

EF Lens	Angle of View (horizontal · vertical · diagonal)	Lens construction (elements/group)	No. of Diaphragm Blades	Minimum Aperture	Closest Focusing Distance (m)	Maximum Magnification (x)	Distance Information	AF Actuator
EF 16-35mm f/2.8L II USM	98°-54°-74°10'-38°-108°10'-63°	16/12	7	22	0.28	0.22 (at 35mm)	YES	Ring USM ²
EF 17-40mm f/4L USM	93°-49°20'-70°30'-34°-104°-57°30'	12/9	7	22	0.28	0.24 (at 40mm)	YES	Ring USM ²
EF 20-35mm f/3.5-4.5 USM	84°-54°-62°-38°-94°-63°	12/11	5	22-27	0.34	0.13 (at 35mm)	YES	Ring USM ²
EF 24-70mm f/2.8L USM	74°-29°-53°-19°30'-84°-34°	16/13	8	22	0.38	0.29 (at 70mm)	YES	Ring USM ²
EF 24-85mm f/3.5-4.5 USM	74°-24°-53°-16°-84°-28°30'	15/12	6	22-32	0.5	0.16 (at 85mm)	YES	Ring USM ²
EF 24-105mm f/4L IS USM	74°-19°20'-53°-13°-84°-23°20'	18/13	8	22	0.45	0.23 (at 105mm)	YES	Ring USM ²
EF 28-90mm f/4-5.6 III	65°-22°40'-46°-15°10'-75°-27°	10/8	5	22-32	0.38	0.30 (at 90mm)	YES	MM ³
EF 28-90mm f/4-5.6 II USM	65°-22°40'-46°-13°-75°-27°	10/8	5	22-32	0.38	0.30 (at 90mm)	—	Micro USM
EF 28-105mm f/4-5.6	65°-19°20'-46°-13°-75°-23°20'	10/9	6	22-32	0.48	0.19 (at 105mm)	YES	MM ³
EF 28-105mm f/4-5.6 USM	65°-19°20'-46°-13°-75°-23°20'	10/9	6	22-32	0.48	0.19 (at 105mm)	YES	Micro USM II
EF 28-105mm f/3.5-4.5 II USM	65°-19°20'-46°-13°-75°-23°20'	15/12	7	22-27 ⁴	0.5	0.19 (at 105mm)	YES	Ring USM ²
EF 28-135mm f/3.5-5.6 IS USM	65°-15°-46°-10°-75°-18°	16/12	6	22-36	0.5	0.19 (at 135mm)	YES	Ring USM ²
EF 28-200mm f/3.5-5.6 USM	65°-10°-46°-7°-75°-12°	16/12	6	22-36	0.45	0.28 (at 200mm)	YES	Micro USM
EF 28-300mm f/3.5-5.6L IS USM	65°-6°50'-46°-4°35'-75°-8°15'	23/16	8	22-38 ⁴	0.7	0.30 (at 300mm)	YES	Ring USM ²
EF 55-200mm f/4.5-5.6 II USM	36°-10°-25°-7°-43°-12°	13/13	6	22-27 ⁴	1.2	0.21 (at 200mm)	—	Micro USM
EF 70-200mm f/2.8L USM	29°-10°-19°30'-7°-34°-12°	18/15	8	32	1.5	0.16 (at 200mm)	YES	Ring USM ²
EF 70-200mm f/2.8L IS USM	29°-10°-19°30'-7°-34°-12°	23/18	8	32	1.4	0.17 (at 200mm)	YES	Ring USM ²
EF 70-200mm f/4L IS USM	29°-10°-19°30'-7°-34°-12°	20/15	8	32	1.2	0.21 (at 200mm)	YES	Ring USM ²
EF 70-200mm f/4L USM	29°-10°-19°30'-7°-34°-12°	16/13	8	32	1.2	0.21 (at 200mm)	YES	Ring USM ²
EF 70-300mm f/4-5.6 IS USM	29°-6°50'-19°30'-4°35'-34°-8°15'	15/10	8	32-45	1.5	0.26 (at 300mm)	YES	Micro USM
EF 70-300mm f/4.5-5.6 DO IS USM	29°-6°50'-19°30'-4°35'-34°-8°15'	18/12	6	32-38 ⁴	1.4	0.19 (at 300mm)	YES	Ring USM ²
EF 75-300mm f/4-5.6 III USM	27°-6°50'-18°11'-4°35'-32°11'-8°15'	13/9	7	32-45	1.5	0.25 (at 300mm)	—	Micro USM
EF 75-300mm f/4-5.6 III	27°-6°50'-18°11'-4°35'-32°11'-8°15'	13/9	7	32-45	1.5	0.25 (at 300mm)	—	MM ³
EF 90-300mm f/4-5.6	22°40'-6°50'-15°10'-4°35'-27°-8°15'	13/9	7	38-45 ⁴	1.5	0.25 (at 300mm)	—	MM ³
EF 90-300mm f/4.5-5.6 USM	22°40'-6°50'-15°10'-4°35'-27°-8°15'	13/9	7	38-45 ⁴	1.5	0.25 (at 300mm)	YES	Micro USM
EF 100-300mm f/4.5-5.6 USM	20°-6°50'-14°-4°35'-24°-8°15'	13/10	8	32-38 ⁴	1.5	0.20 (at 300mm)	YES	Ring USM ²
EF 100-400mm f/4.5-5.6L IS USM	20°-5°10'-14°-3°30'-24°-6°10'	17/14	8	32-38 ⁴	1.8	0.20 (at 400mm)	YES	Ring USM ²
EF 15mm f/2.8 Fisheye	→ → -180°	8/7	5	22	0.2	0.14	—	AFD
EF 14mm f/2.8L USM	104°-81°-114°	14/10	5	22	0.25	0.1	YES	Ring USM ²
EF 20mm f/2.8 USM	84°-62°-94°	11/9	5	22	0.25	0.14	YES	Ring USM ²
EF 24mm f/1.4L USM	74°-53°-84°	11/9	7	22	0.25	0.16	YES	Ring USM ²
EF 24mm f/2.8	74°-53°-84°	10/10	6	22	0.25	0.16	—	AFD
EF 28mm f/1.8 USM	65°-46°-75°	10/9	7	22	0.25	0.18	YES	Ring USM ²
EF 28mm f/2.8	65°-46°-75°	5/5	5	22	0.3	0.13	—	AFD
EF 35mm f/1.4L USM	54°-38°-63°	11/9	8	22	0.3	0.18	YES	Ring USM ²
EF 35mm f/2	54°-38°-63°	7/5	5	22	0.25	0.23	—	AFD
EF 50mm f/1.2L USM	40°-27°-46°	8/6	8	16	0.45	0.15	YES	Ring USM ²
EF 50mm f/1.4 USM	40°-27°-46°	7/6	8	22	0.45	0.15	—	Micro USM ²
EF 50mm f/1.8 II	40°-27°-46°	6/5	5	22	0.45	0.15	—	MM ³
EF 85mm f/1.2L II USM	24°-16°-28°30'	8/7	8	16	0.95	0.11	YES	Ring USM ²
EF 85mm f/1.8 USM	24°-16°-28°30'	9/7	8	22	0.85	0.13	YES	Ring USM ²
EF 100mm f/2 USM	20°-14°-24°	8/6	8	22	0.9	0.14	YES	Ring USM ²
EF 135mm f/2L USM	15°-10°-18°	10/8	8	32	0.9	0.19	YES	Ring USM ²
EF 135mm f/2.8 (with Softfocus)	15°-10°-18°	7/6	6	32	1.3	0.12	—	AFD
EF 200mm f/2.8L II USM	10°-7°-12°	9/7	8	32	1.5	0.16	YES	Ring USM ²
EF 300mm f/2.8L IS USM	6°50'-4°35'-8°15'	17/13	8	32	2.5	0.13	YES	Ring USM ²
EF 300mm f/4L IS USM	6°50'-4°35'-8°15'	15/11	8	32	1.5	0.24	YES	Ring USM ²
EF 400mm f/2.8L IS USM	5°10'-3°30'-6°10'	17/13	8	32	3	0.15	YES	Ring USM ²
EF 400mm f/5.6L USM	5°10'-3°30'-6°10'	7/6	8	32	3.5	0.12	YES	Ring USM ²
EF 400mm f/4 DO IS USM	5°10'-3°30'-6°10'	17/13	8	32	3.5	0.12	YES	Ring USM ²
EF 500mm f/4L IS USM	4°-2°45'-5°	17/13	8	32	4.5	0.12	YES	Ring USM ²
EF 600mm f/4L IS USM	3°30'-2°20'-4°10'	17/13	8	32	5.5	0.12	YES	Ring USM ²
Extender EF 1.4x II	→ → →	5/4	—	—	—	—	YES	—
Extender EF 2x II	→ → →	7/5	—	—	—	—	YES	—
EF 50mm f/2.5 Compact Macro	40°-27°-46°	9/8	6	32	0.23	0.5	—	AFD
Life-Size Converter EF	→ → →	4/3	—	—	0.24	1	—	—
MP-E 65mm f/2.8 1-5x Macro Photo	15°40'-10°35'-18°40'	10/8	6	16	0.24	5	YES	—
EF 100mm f/2.8 Macro USM	20°-14°-24°	12/8	8	32	0.31	1	YES	Ring USM ²
EF 180mm f/3.5L Macro USM	11°25'-7°40'-13°40'	14/12	8	32	0.48	1	YES	Ring USM ²
Extension Tube EF 12 II	—	6	—	—	—	—	—	—
Extension Tube EF 25 II	—	7	—	—	—	—	—	—
TS-E 24mm f/3.5L	74°-53°-84° (without tilt or shift) ⁸	11/9	8	22	0.3	0.14	—	—
TS-E 45mm f/2.8	44°-33°-51° (without tilt or shift) ⁸	10/9	8	22	0.4	0.16	—	—
TS-E 90mm f/2.8	22°37'-15°11'-27° (without tilt or shift) ⁸	6/5	8	32	0.5	0.29	—	—

EF-S Lens*																		
EF-S 60mm f/2.8 Macro USM	20°40'-14°10'-24°30'	12/8	7	32	0.20	1	YES	Ring USM ²										
EF-S 10-22mm f/3.5-4.5 USM	97°10'-54°30'-74°10'-37°50'-107°30'-63°30'	13/10	6	22-27	0.24	0.17 (at 22mm)	YES	Ring USM ²										
EF-S 17-55mm f/2.8 IS USM	68°40'-23°20'-48°-15°40'-78°30'-27°50'	19/12	7	22	0.35	0.17 (at 55mm)	YES	Ring USM ²										
EF-S 17-85mm f/4-5.6 IS USM	68°40'-15°25'-48°-10°25'-78°30'-18°25'	17/12	6	22-32	0.35	0.2 (at 85mm)	YES	Ring USM ²										
EF-S 18-55mm f/3.5-5.6 II	64°30'-23°20'-45°30'-15°40'-74°20'-27°50'	11/9	6	22-38	0.28	0.28 (at 55mm)	YES	MM ³										

* Only for EOS 30D, EOS 20D, EOS 400D, EOS 350D and EOS 300D

Extender EF 1.4x II																		
Lens Attachment	EF 135mm f/2L USM	EF 180mm f/3.5L Macro USM	EF 200mm f/2.8L II USM	EF 300mm f/2.8L IS USM	EF 300mm f/4L IS USM	EF 400mm f/2.8L IS USM	EF 400mm f/4 DO IS USM	EF 400mm f/5.6L IS USM	EF 500mm f/4L IS USM	EF 600mm f/4L IS USM	EF 70-200mm f/2.8L IS USM	EF 70-200mm f/2.8L IS USM	EF 70-200mm f/4L IS USM	EF 70-200mm f/4L IS USM	EF 100-400mm f/4.5-5.6L IS USM			
Focal Length (mm)	189	252	280	420	420	560	560	560	700	840	98-280	98-280	98-280	98-280	140-560			
f-stop (f)	2.8-4.5	4.5-45 ⁴	4-4.5	4-4.5	5.6-4.5	4-4.5	5.6-4.5	8-4.5	5.6-4.5	5.6-4.5	4-4.5	4-4.5	5.6-4.5	5.6-4.5	6.7-54 ⁴			
Max. Magnification (x)	0.27	1.4	0.22	0.19	0.33	0.22	0.17	0.18	0.17	0.17	0.22	0.24	0.31	0.29	0.28			
AF	▶	▶ ¹⁰	▶	▶ ¹²	▶ ¹²	▶ ¹²	▶ ¹²	▶ ¹⁰	▶ ¹²	▶ ¹²	▶ ¹²	▶ ¹²	▶	▶ ¹²	▶ ^{11,12}			

- 1 Maximum number of Hood III/IV attachable. In the case of zoom lenses, the maximum number applies to the shortest focal length.
- 2 Mechanical full-time manual focusing built-in.
- 3 Micro motor.
- 4 Data based on EOS models with exposures displayed in 1/2 stop increments. The aperture value is slightly different with cameras displaying 1/3 stops.
- 5 With EF 50mm f/2.5 Compact Macro.
- 6 Extension Tube EF 12 II cannot be used with the following lenses at wide angles: EF 16-35mm f/2.8L II USM, EF-S 10-22mm f/3.5-4.5 USM, EF-S 17-55mm f/2.8 IS USM, EF-S 17-85mm f/4-5.6 IS USM.
- 7 Extension Tube EF 25 II cannot be used with the the following lenses at wide angles: EF 16-35mm f/2.8L II USM, EF 17-40mm f/4L USM, EF 20-35mm f/3.5-4.5 USM, EF 24-70mm f/2.8L USM, EF 24-105mm f/4L IS USM, EF 28-300mm f/3.5-5.6L IS USM, EF-S 10-22mm f/3.5-4.5 USM, EF-S 17-85mm f/4-5.6 IS USM, EF-S 18-55mm f/3.5-5.6 II and not recommended for the following lenses near the tele end: EF-S 10-22mm f/3.5-4.5 USM, EF-S 17-55mm f/2.8 IS USM.

Lenses Specifications Chart

EF Lens	Filter Diameter (mm)	Max. Diameter x Length (mm)	Weight (g)	Magnification with Extension Tube EF 12 II ⁶	Magnification with Extension Tube EF 25 II ⁷	Lens Hood	Lens Case/Pouch	G.F.Holder III (hood III ¹)	G.F.Holder IV (hood IV ¹)
EF 16-35mm f/2.8L II USM	82	88.5 x 111.6	635	0.62-0.36 ¹³	1.11-0.80 ¹³	EW-88	—/LP1319	NC	NC
EF 17-40mm f/4L USM	77	83.5 x 96.8	475	0.83-0.32	1.02-0.70	EW-83E (Standard)	—/LP1319	NC	(0)
EF 20-35mm f/3.5-4.5 USM	77	83.5 x 68.9	340	0.70-0.36	1.00-0.80	EW-83II	—/LP1214	NC	(0)
EF 24-70mm f/2.8L USM	77	83.2 x 123.5	950	0.63-0.18	0.75-0.40	EW-83F	—/LP1219	(0)	(0)
EF 24-85mm f/3.5-4.5 USM	67	73 x 69.5	380	0.59-0.15	1.23-0.33	EW-73II	—/LP1014	NC	(0)
EF 24-105mm f/4L IS USM	77	83.5 x 107	670	0.60-0.12	0.61-0.27	EW-83H	—/LP1219	NC	(0)
EF 28-90mm f/4-5.6 III	58	67 x 71	190	0.56-0.14	1.13-0.31	EW-60C	—/LP814	(0)	(0)
EF 28-90mm f/4-5.6 II USM	58	67 x 71	190	0.56-0.14	1.13-0.31	EW-60C	—/LP814	(0)	(0)
EF 28-105mm f/4-5.6	58	67 x 68	210	0.54-0.12	1.11-0.27	EW-63B	—/LP814	(0)	(0)
EF 28-105mm f/4-5.6 USM	58	67 x 68	210	0.54-0.12	1.11-0.27	EW-63B	—/LP814	(0)	(0)
EF 28-105mm f/3.5-4.5 II USM	58	72 x 75	375	0.53-0.12	0.75-0.27	EW-63III	—/LP814	(0)	(0)
EF 28-135mm f/3.5-5.6 IS USM	72	78.4 x 96.8	540	0.53-0.09	1.09-0.21	EW-78BII	—/LP1116	NC	(0)
EF 28-200mm f/3.5-5.6 USM	72	78.4 x 89.6	500	0.54-0.06	1.10-0.14	EW-78D	—/LP1116	NC	(0)
EF 28-300mm f/3.5-5.6L IS USM	77	92 x 184	1,670	0.50-0.04	0.50-0.09	EW-83G	—/L21324	NC	(6)
EF 55-200mm f/4.5-5.6 II USM	52	70.4 x 97.3	310	0.29-0.06	0.50-0.14	ET-54	—/LP1016	(3)	(3)
EF 70-200mm f/2.8L USM	77	84.6 x 193.6	1,310	0.22-0.06	0.41-0.14	ET-83II (Standard)	—/L21324	(2)	(2)
EF 70-200mm f/2.8L IS USM	77	86.2 x 197	1,470	0.24-0.06	0.41-0.14	ET-86 (Standard)	—/L21324	(0)	(1)
EF 70-200mm f/4L IS USM	67	76 x 172	760	0.23-0.06	0.42-0.14	ET-74	—/LP1224	(2)	(3)
EF 70-200mm f/4L USM	67	76 x 172	705	0.29-0.06	0.39-0.13	ET-74 (Standard)	—/L21224	(2)	(3)
EF 70-300mm f/4-5.6 IS USM	58	76.5 x 142.8	630	0.32-0.04	0.40-0.09	ET-65B	—/LP1222	(2)	(3)
EF 70-300mm f/4.5-5.6 DO IS USM	58	82.4 x 99.9	720	0.26-0.04	0.46-0.09	ET-65B	—/LP1116	(2)	(4)
EF 75-300mm f/4-5.6 III USM	58	71 x 122	480	0.31-0.04	0.39-0.09	ET-60	—/LP1019	(5)	(4)
EF 75-300mm f/4-5.6 III	58	71 x 122	480	0.31-0.04	0.39-0.09	ET-60	—/LP1019	(5)	(4)
EF 90-300mm f/4.5-5.6	58	71 x 114.7	420	0.31-0.13	0.39-0.09	ET-60	—/LP1019	(5)	(4)
EF 90-300mm f/4.5-5.6 USM	58	71 x 114.7	420	0.31-0.13	0.39-0.09	ET-60	—/LP1019	(5)	(4)
EF 100-300mm f/4.5-5.6 USM	58	73 x 121.5	540	0.26-0.04	0.37-0.09	ET-65III	—/LP1019	(5)	(4)
EF 100-400mm f/4.5-5.6L IS USM	77	92 x 189	1,380	0.25-0.03	0.35-0.07	ET-83C (Standard)	—/L21324	(4)	(5)
EF 15mm f/2.8 Fisheye	Filter Holder	73 x 62.2	330	—	—	—	—/LP814	NC	NC
EF 14mm f/2.8L USM	Filter Holder	77 x 89	560	—	—	—	—/LP1016	NC	NC
EF 20mm f/2.8 USM	72	77.5 x 70.6	405	0.72-0.60	—	EW-75II	—/LP1214	NC	(0)
EF 24mm f/1.4L USM	77	83.5 x 77.4	550	0.66-0.50	—	EW-83DII (Standard)	—/LP1214	NC	(0)
EF 24mm f/2.8	58	67.5 x 48.5	270	0.64-0.50	1.22-1.11	EW-60II	—/LP811	(0)	(0)
EF 28mm f/1.8 USM	58	73.6 x 55.6	310	0.61-0.43	1.13-0.96	EW-63II	—/LP814	(0)	(0)
EF 28mm f/2.8	52	67.4 x 42.5	185	0.56-0.43	1.09-0.95	EW-65II	—/LP1011	(1)	(1)
EF 35mm f/1.4L USM	72	79 x 86	580	0.54-0.36	0.97-0.79	EW-78C (Standard)	—/LP1214	NC	(0)
EF 35mm f/2	52	67.4 x 42.5	210	0.58-0.35	1.00-0.77	EW-65II	—/LP1011	(2)	(2)
EF 50mm f/1.2L USM	72	85.8 x 65.5	590	0.39-0.24	0.67-0.53	ES-78	—/LP1214	(0)	(1)
EF 50mm f/1.4 USM	58	73.8 x 50.5	290	0.39-0.24	0.68-0.53	ES-71II	—/LP1014	(2)	(1)
EF 50mm f/1.8 II	52	68.2 x 41	130	0.39-0.24	0.68-0.53	ES-62	—/LP1014	(2)	(2)
EF 85mm f/1.2L II USM	72	91.5 x 84.0	1,025	0.25-0.15	0.42-0.33	ES-79 II (Standard)	—/LP1219	(4)	(4)
EF 85mm f/1.8 USM	58	75 x 71.5	425	0.27-0.15	0.44-0.32	ET-65III	—/LP1014	(5)	(4)
EF 100mm f/2 USM	58	75 x 73.5	460	0.27-0.13	0.42-0.28	ET-65III	—/LP1014	(5)	(4)
EF 135mm f/2L USM	72	82.5 x 112	750	0.29-0.09	0.41-0.20	ET-78II (Standard)	—/LP1219	(5)	(5)
EF 135mm f/2.8 (with Softfocus)	52	69.2 x 98.4	390	0.22-0.09	0.33-0.20	ET-65III	—/LP1016	(5)	(4)
EF 200mm f/2.8L II USM	72	83.2 x 136.2	765	0.23-0.06	0.32-0.14	ET-83BII (Standard)	—/LP1222	(5)	NC
EF 300mm f/2.8L IS USM	52 Drop-in	128 x 252	2,550	0.18-0.04	0.24-0.09	ET-120 (Standard)	Lens Case 300/—	NC	(5)
EF 300mm f/4L IS USM	77	90 x 221	1,190	0.30-0.04	0.37-0.09	—	—/L21128	(5)	(5)
EF 400mm f/2.8L IS USM	52 Drop-in	163 x 349	5,370	0.19-0.03	0.23-0.06	ET-155 (Standard)	Lens Case 400/—	NC	NC
EF 400mm f/5.6L USM	77	90 x 256.5	1,250	0.16-0.03	0.21-0.07	—	—/L21132	(5)	(5)
EF 400mm f/4 DO IS USM	52 Drop-in	128 x 232.7	1,940	0.16-0.03	0.20-0.07	ET-120 (Standard)	Lens Case 400B/—	NC	NC
EF 500mm f/4L IS USM	52 Drop-in	146 x 387	3,870	0.15-0.03	0.18-0.05	ET-138 (Standard)	Lens Case 500/—	NC	NC
EF 600mm f/4L IS USM	52 Drop-in	168 x 456	5,360	0.14-0.02	0.17-0.05	ET-160 (Standard)	Lens Case 600/—	NC	NC
Extender EF 1.4x II	—	72.8 x 27.2	220	—	—	—	—/LP811	—	—
Extender EF 2x II	—	71.8 x 57.9	265	—	—	—	—/LP811	—	—
EF 50mm f/2.5 Compact Macro	52	67.6 x 63	280	0.74-0.24	1.04-0.54	—	—/LP814	(2)	(2)
Life-Size Converter EF	—	67.6 x 34.9	160	—	—	—	—/LP811	(5) ⁵	(5) ⁵
MP-E 65mm f/2.8 1.5x Macro Photo	58	81 x 98	710	—	—	—	—/LP1216	(0)	(0)
EF 100mm f/2.8 Macro USM	58	78.6 x 118.6	580	1.19-0.12	1.39-0.26	ET-67	—/LP1219	(4)	(4)
EF 180mm f/3.5L Macro USM	72	82.5 x 186.6	1,090	1.09-0.07	1.21-0.15	ET-78II	—/L21324	(5)	(5)
Extension Tube EF 12 II	—	66.5 x 12.3	66	—	—	—	—/Exclusive	—	—
Extension Tube EF 25 II	—	67.6 x 27.3	125	—	—	—	—/LP811	—	—
TS-E 24mm f/3.5L	72	78 x 86.7	570	0.62-0.49	1.21-1.10	EW-75BII (Standard)	—/LP1216	(0)	(0)
TS-E 45mm f/2.8	72	81 x 90.1	645	0.44-0.27	—	EW-79BII (Standard)	—/LP1216	(0)	(0)
TS-E 90mm f/2.8	58	73.6 x 88	565	0.43-0.14	0.60-0.31	ES-65III (Standard)	—/LP1016	(1)	(1)





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