

Canon

# CINEMA LENSES

4K



CINEMA EOS

LEAVE NO STORY UNTOLD



## LEAVE NO STORY UNTOLD — GO WHEREVER THE STORY TAKES YOU

A story told is only as good as the scene that's captured. Whether that's shooting films, documentaries or broadcasting, the camera and the lens play an integral part of the filmmaker's toolset. Thus, a camera system, in many ways, is defined by the quality, breadth and scope of its associated system of lenses.

Canon Cinema Lenses continue Canon's rich history of optics in blending some of the world's most advanced optical technology with the operability and accuracy demands of cinema professionals. Designed from the ground up with advanced 4K optical performance, Canon offers one of the most complete lineups of Cinema Lenses, including a series of zooms, compact zooms and prime lenses. Canon Cinema Lenses are perfect for whatever you shoot, whatever your budget.

*"I was lucky to get to use the cinema-zooms. We had the 30-300, an amazing lens, so sharp – what a range on that lens."*

**Peter Simonite** / 2nd Unit Director of Photography for "Man & Beast"

*Above: Behind the scenes on the set of the 4K short film "Man & Beast."*

*"The crispness of these lenses are incredibly sharp. With 4K imagery, I'd have to say pretty much almost every shot is a time when you have to pay attention to focus."*

**Dan McDonough** / Assistant Cameraman for "Man & Beast"



# CANON CINEMA LENSES

## — THE LENSES FOR ALL REASONS

4K

Canon's expanding lineup of dedicated Super 35mm Cinema Lenses are engineered to meet the most demanding requirements of high-end cinematography. Covering a wide range of popular cinema focal lengths in a series of zooms and compact zooms available in EF- or PL-mount, as well as a series of EF-mount prime lenses, it's one of the most complete lineups of lenses available to any filmmaker. All lenses are optically matched to ensure consistent color balance, and each series shares uniform front lens diameters and gear positions – thus enabling film crews to seamlessly interchange lenses. Whether you are involved in film production, TV commercials, TV dramas, independent, video or film school production, these are the lenses you need for all reasons.

### Canon Cinema Zoom and Compact Zoom Lenses

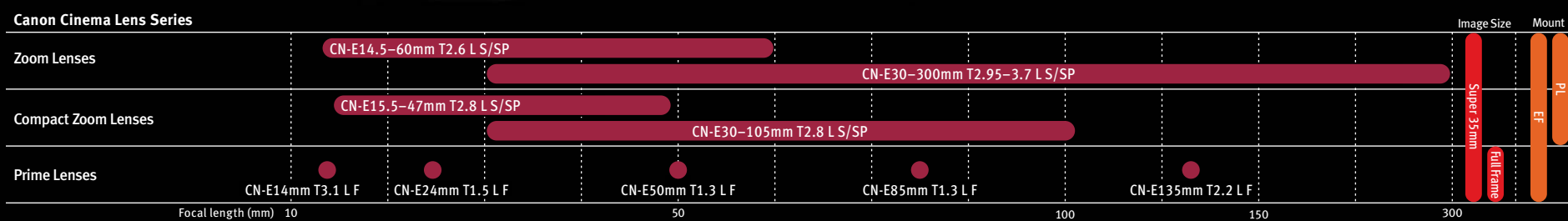
Canon's Cinema Zoom and Compact Zoom Lenses offer extraordinary optical performance for demanding, high-end film and video productions. New optical glass materials, new optical coatings and powerful new design techniques have all been combined to offer advanced optical performance. All four lens models are available in EF- or PL-mount versions, and for added flexibility the mount on all models can be switched at a Canon service facility (call 855-CINE-EOS for details).

**Zoom Lens Series** – Canon Cinema Zoom Lenses offer extraordinary optical performance that exceeds 4K resolution and are designed to meet the most demanding of high-end productions. They combine fluorite and aspherical lens elements, the latest in advanced optical coatings and superior lens designs for outstanding edge-to-edge image quality. These lenses also feature minimal lens distortions and exceed the resolving power of the prime lenses at all zoom levels. Surprisingly low-weight, the wide-angle CN-E14.5–60mm T2.6 L S/SP and telephoto CN-E30–300mm T2.95–3.7 L S/SP cover the range of focal lengths most commonly used in filmmaking.

**Compact Zoom Lens Series** – Canon Cinema Compact Zoom Lenses offer 4K resolution in form factors that enable more flexible, less intrusive shooting. The CN-E15.5–47mm T2.8 L S/SP delivers a wide to medium range of focal lengths, while the CN-E30–105mm T2.8 L S/SP covers wide to modest telephoto shots. When the two lenses are used as a pair, they cover a very broad zoom range. They also feature a constant T-number (2.8) throughout their zoom ranges as well as the latest advancements in lens design for outstanding image quality and minimal distortion. Both zoom lenses are ideal for Steadicam™ and hand-held shooting as well as for applications beyond filmmaking.

### Canon Cinema Prime Lenses

The flexible series of Canon Cinema Prime Lenses offers spectacular 4K-image quality and a full-frame image circle, in lightweight, compact designs. Prime Lenses consist of the CN-E14mm T3.1 L F, CN-E24mm T1.5 L F, CN-E50mm T1.3 L F, CN-E85mm T1.3 L F and CN-E135mm T2.2 L F. They feature high optical speed, produce exceptionally sharp 4K images and superb contrast, and maintain tightly controlled focus breathing and geometric distortion. Low T-numbers enable better low-light shooting and enhanced image expression with shallow depth-of-field and beautiful bokeh of large image circles. These EF-mount models offer consistent form factors and markings that have been optimized for motion picture production, and represent the beginning of an evolving family of cinema primes. Canon Cinema Prime Lenses are also compatible – under manual operation – with all Canon EOS DSLR models, including the full-frame EOS-1D X and EOS 5D Mark III, as well as the EOS 7D and EOS 60D models that use APS-C sized image sensors.





# SUPERB IMAGE QUALITY

## — PERFORMANCE PROVEN IN THE FIELD

Built on years of know-how developing some of the world's most advanced optical lenses, every Canon Cinema Lens is manufactured to meet the exacting needs of the world's top filmmakers. All of these lenses share Canon's renowned accuracy, clarity and optical brilliance to bring fresh perspective to your vision and stimulate creativity. They provide the highest performance in 4K/2K/HD motion imaging and are engineered to meet the imaging requirements of the latest large format, single sensor, digital cameras. It's a lens system whose standard is measured by the professionals out on the field — day in and day out.

### Outstanding 4K Image Quality

Every Canon Cinema Lens is designed to fulfill contemporary 4K production standards, further enhancing the performance of any HD imaging system. Cinema Lenses feature large aspherical lens elements that help achieve sharp, consistent images for virtually all situations. The optical characteristics of each lens and their associated coatings are matched to help ensure consistent color balance not only between each series of lenses (Zoom, Compact Zoom and Prime), but also between the entire family of Canon Cinema Lenses. While coatings specifically developed for cinematography applications help reduce ghosting and minimize flare, natural skin tones with astounding scenes of rich color, clarity and contrast are rendered.

With edge-to-edge consistency across the entire focal plane at all focal lengths, Canon Cinema Zoom and Compact Zoom Lenses support industry-standard Super 35mm and APS-C equivalent sensor formats, while Canon Cinema Prime Lenses produce an imaging area that supports full-frame 35mm format cameras such as the Canon EOS-1D C. A geared inner-focusing mechanism helps minimize focus-induced changes in the angle of view, helping reduce focus breathing, while the 11-blade aperture diaphragms help ensure beautiful bokeh. Innovative glass construction also helps to counteract barrel expansion and contraction, avoiding temperature-induced marking discrepancies.

### Uncompromising Design for Working Professionals

Packed schedules and numerous locations are part and parcel of being a filmmaker. But, with rugged, durable construction and ease of operability, it's the lens system you can rely on. Canon Cinema Lenses provide markings on angled surfaces on both sides of the lens barrel, simplifying focus reading and aperture settings from behind or on either side of the camera. Focus markings can be switched from standard to metric labeling. Torque of the control rings was designed specifically to help maintain the proper amount of resistance. To enable film crews to change optics quickly and without adjusting the rig setup, each series of Cinema Lenses shares uniform front diameter and rotation angle for operational controls and gear positions. Lenses are lighter weight, more compact and smaller than conventional cinema lenses, making them ideal for many of today's shooting locations where space is at a premium. Cinema Zoom and Compact Zoom Lenses are available in both EF- or PL-mount versions (the mount on all these models can be switched at a Canon service facility) and feature a covered flange-back adjustment mechanism for additional versatility in applications such as broadcasting. Compatible with major third-party shooting accessories like matte boxes, support rods, geared control rings, and follow focus mechanisms, you can step up to the Canon Cinema Lenses without the worry of leaving your favorite equipment behind.

#### Cinema Zoom and Compact Zoom Lenses: Highlights

##### Easy-to-read controls

Focus, zoom, and iris markings are provided on angled surfaces. These markings are easier to read from behind the camera.

##### New Inner Focus

Minimizes focus-induced changes in the angle of view.

##### Light, Compact

Smaller and lighter than conventional cinema lenses, to meet a variety of shooting needs.

##### Flange-back Adjustment Mechanism

A covered flange-back adjustment mechanism is included, with broadcast applications in mind.

##### Supports Industry-standard Cameras

Supports industry-standard Super 35mm equivalent and APS-C formats.

##### Markings on Both Sides

Lenses are marked on both sides. This makes markings visible from either side of the lens.

##### Switchable Unit for Focus Marking

The outer piece on marked focus rings can be switched from non-metric to metric labeling.

##### Attractive Blurring

11-blade circular aperture enables soft, beautiful background bokeh.

##### Interchangeable Mount

Lenses are available in EF- or PL-mount and for added flexibility the mount on all models can be switched at a Canon service facility.

##### Unified Front Lens Diameter, Gear Positions

Uniform gear positions within the same categories eliminates the need for accessory gear position adjustment when switching lenses.

##### Zoom Lens Series



##### Compact Zoom Lens Series



#### Cinema Prime Lenses: Highlights

##### Fast Aperture

Enables shooting with shallow depth-of-field and low-light capability.

##### Attractive Blurring

11-blade circular aperture enables soft, beautiful background bokeh.

##### Light, Compact

Small and light among conventional cinema lenses, to meet a variety of shooting needs.

##### Ready for Full-size 35mm Sensors

The lenses are also compatible with the large imaging area of cameras equipped with a full-size 35mm-equivalent CMOS sensor.

##### Accepts 105mm filters

PL or other individual filters 105mm in diameter can be attached to the end of the lens, enabling filter work in handheld shooting or other scenarios without using a matte box.

##### Comfortable Usability

Control rings maintain the right amount of resistance while offering exceptional usability with consistent operating torque.

##### Unified Front Lens Diameter, Gear Position

Lenses have the same front lens diameter and consistent gear positions so they can be switched without adjusting the rig setup.

##### Prime Lens Series



### Canon EF-Mount

Available on every Canon Cinema Lens, the Canon EF-mount ensures compatibility with the full lineup of Canon Cinema EOS cameras. Aperture, focal length settings and lens models are communicated and may be recorded by the camera for Canon Cinema Prime Lenses and EF-mount Compact Zooms. Additionally, with manual operation, Cinema Zoom and Compact Zoom Lenses are compatible with APS-C size EOS DSLR cameras such as the EOS 7D while the Cinema Prime Lenses are compatible with the full lineup of EOS DSLR cameras including full-frame cameras such as the EOS-1D X and EOS 5D Mark III.

#### Canon Cinema Lenses Specifications

Model	Mount	Focal Length	Zoom Ratio	Maximum Aperture	Minimum Focus	Iris Blades	Angle of View		Front Diameter	Length	Weight
							24.6 x 13.8mm	24.0 x 13.5mm			
CN-E14.5-60mm T2.6 L S/SP	EF/PL	14.5 - 60mm	4.1:1	2.6	28"	11	80.6° x 50.9° at 14.5mm 23.2° x 13.1° at 60mm	79.2° x 49.9° at 14.5mm 22.6° x 12.8° at 60mm	136mm	318mm (PL) 326mm (EF)	9.9 lb./4.5kg
CN-E30-300mm T2.95-3.7 L S/SP	EF/PL	30 - 300mm	10:1	2.95/30-240mm 3.7/300mm	60"	11	44.6° x 25.9° at 30mm 4.7° x 2.6° at 300mm	43.6° x 25.4° at 30mm 4.6° x 2.6° at 300mm	136mm	342mm (PL) 350mm (EF)	12.79 lb./5.8kg
CN-E15.5-47mm T2.8 L S/SP	EF/PL	15.5 - 47mm	3:1	2.8	20"	11	80.4° x 48.0° at 15.5mm 31.1° x 16.7° at 47mm	75.5° x 47.1° at 15.5mm 28.6° x 16.3° at 47mm	114mm	214mm (PL) 222mm (EF)	4.8 lb./2.2kg
CN-E30-105mm T2.8 L S/SP	EF/PL	30 - 105mm	3.5:1	2.8	24"	11	47.2° x 25.9° at 30mm 14.2° x 7.5° at 105mm	43.6° x 25.4° at 30mm 13.0° x 7.4° at 105mm	114mm	210mm (PL) 218mm (EF)	4.8 lb./2.2kg
CN-E14mm T3.1 L F	EF	14mm	-	3.1	8"	11	82.6° x 52.5°	104.3° x 81.2°	114mm	94mm	2.64 lb./1.2kg
CN-E24mm T1.5 L F	EF	24mm	-	1.5	12"	11	54.3° x 32.1°	73.7° x 53.1°	114mm	101.5mm	2.65 lb./1.2kg
CN-E50mm T1.3 L F	EF	50mm	-	1.3	18"	11	27.6° x 15.7°	39.6° x 27°	114mm	101.5mm	2.42 lb./1.1kg
CN-E85mm T1.3 L F	EF	85mm	-	1.3	38"	11	16.5° x 9.3°	23.9° x 16.1°	114mm	101.5mm	2.87 lb./1.3kg
CN-E135mm T2.2 L F	EF	135mm	-	2.2	39"	11	10.4° x 5.9°	15.2° x 10.2°	114mm	115.6mm	3.08 lb./1.4kg



# CANON EF LENSES

## — A WORLD OF CREATIVE OPTIONS

Great images start with great lenses, and the highly flexible Cinema EOS system opens up new, creative possibilities for the cinematographer with a versatile breadth and scope of lenses. Canon EF Lenses incorporate a rare array of the world's most advanced optical, micro-electronic and manufacturing technologies. They deliver extraordinary image quality and a wide range of choice – boasting an extensive selection of over 60 EF and EF-S Lenses, including Canon specialty lenses such as Tilt-Shift, Macro and Fisheye. With over 80 million produced, Canon EF Lenses are highly regarded among professionals.

### Canon EF-Mount

All EF Lenses feature Canon's EF-mount for full compatibility with Cinema EOS cameras. The EF-mount enables Cinema EOS cameras to utilize the advanced Peripheral Illumination Correction feature, which helps ensure beautiful consistent color and brightness across the entire image plane, in addition to communicating focal length, aperture settings and lens models. The EF-mount gives additional creative options such as EF specialty lenses, including Tilt-Shift, Macro and Fisheye.

**Tilt-shift Lenses** — TS-E lenses incorporate tilt and shift functions to extend the shooting advantages of technical-view cameras to the EOS system. Tilt movements alter the angle of the focal plane between the lens and image sensor, modifying depth-of-field independently of the lens aperture. Shift movements slide the lens' optical axis along the plane of the image sensor, enabling photographers to correct or alter perspective to almost any angle, and help add unimagined drama to a scene.

**Macro Lenses** — By revealing the finest detail and achieving extraordinary edge-to-edge accuracy at very shallow depth-of-field, macro photography can be an ultimate test of optical performance. Canon EF specialty lenses include six ultra-precise macro lenses and three screw-on, close-up lenses. Accompanied by the Life-Size Converter EF and two Extension Tube accessories, Canon's macro lens array can uncover detail that is nearly impossible for the unaided human eye to detect.

**Fisheye Zoom Lens** — Super wide-angle and special-effects photography let you capture each subject from a unique perspective. The Canon EF 8–15mm f/4L Fisheye USM is the world's first fisheye zoom lens to create circular images with a 180-degree angle-of-view on full-frame DSLRs.

### Canon L-Series Lenses

Highly regarded among professional photographers and videographers, Canon L-Series lenses are distinguished by a bold red ring around the outer barrel. Designed for professionals who demand uncompromising optical performance, these specialty lenses incorporate a number of innovative Canon technologies, including Ultra-low Dispersion (UD) glass, fluorite and aspherical lens elements, plus Super Spectra Multi Coating.

### Canon Optical Image Stabilizer

Many EF Lenses feature Canon Optical Image Stabilizer (OIS) technology, making handheld cinematography more practical than ever before. EF Lenses with OIS are useful in run-and-gun style shoots, low-budgets, or documentaries where an unobtrusive camera configuration may be ideal. Canon OIS technology is built into each IS lens, enabling it to be optimized for the focal lengths and optical characteristics unique to the lens.

*“With the EOS C100 you could actually go handheld on the back of a motorcycle and get great shots. And then pairing that with an EF 24–105mm f/4L IS USM lens, I could even zoom in a little bit and get shots in the rearview mirror and they were still steady.”*

**Patrick Moreau** / Stillmotion filmmaker for the documentary “Pulse”



Behind the scenes of the documentary “Pulse.”





# OUR CONTINUING COMMITMENT TO SERVICE, SUPPORT AND EDUCATION

Motion picture and video production is not just an artistic endeavor. It's also a business, with targeted budgets, profit requirements and inevitable deadlines. Professionals want to know they are dealing with professionals; while dealing with Canon, you can count on a proven creative partner. Our service is world-class, with Canon support programs specially customized to meet your needs. And, to help ensure that you remain current with new technologies and techniques, our educational commitment spans the range of live and online resources.



## Dedicated Service for Professionals

The Canon Hollywood Professional Technology & Support Center was established to bring our world-class service directly to motion picture studios, the television industry, plus independent producers and videographers. Located in the heart of Hollywood, CA, our facility is staffed with expert technicians who are fully prepared to take care of all your Cinema EOS products. We can accurately adjust cameras and lenses, repair both cinema and still-photography equipment, and meet the needs of professionals like yourself who are working with tight and often inflexible deadlines.

With our industry-leading turnaround times and substantial service-parts inventories, we aim to get you back in action fast. And while working on location, you can count on Canon's nationwide service centers for factory-quality repairs and available 24/7 Call Center support. And this is just part of our two-way relationship with you, the end user. Canon not only makes certain that all of your equipment is functioning perfectly when delivered, but we also use your valuable feedback and suggestions to help develop new and even better products. In fact, the Cinema EOS system was developed as a direct result of such industry feedback.

## Support Programs Customized for Your Needs

Cinematographers, production companies, film schools and other industry professionals can take advantage of optional service programs tailored to meet their specialized needs. We offer service partnerships for full-service dealers as well as rental houses, thereby providing additional flexibility to Canon's industry partners. We tailor our custom training packages to the needs of your specific film and TV productions, with expert staff available to deliver training at our Hollywood facility or on location throughout the USA. Whether you require fast repair turnaround times, loaner equipment or equipment maintenance, Canon has a program to keep your business and equipment up and running. We will be expanding these important service offerings as the Cinema EOS production community expands.

You can learn more at: [pro.usa.canon.com/support](http://pro.usa.canon.com/support)



## Unsurpassed Educational Resources

Education is another important cornerstone of Canon's commitment to professional cinematographers. Whether working online, at a production lot or as part of a remote shoot, we are here to provide you with all the essential resources that you need to remain current and keep your creative passion alive.

**Canon Live Learning (CLL)** seminars and workshops are conducted nationwide and in our Hollywood Professional Technology and Support Center, with classes taught by both industry experts as well as Canon's renowned and experienced Explorers of Light. Covering a wide range of still and cinematic topics, ranging from techniques through equipment selection to in-depth system configuration, CLL events offer professionals and enthusiasts alike the opportunity to sharpen their skills in a number of immersive hands-on settings.

Schedules are available at: [usa.canon.com/canonlivelearning](http://usa.canon.com/canonlivelearning)



The **Canon Digital Learning Center**, our web-based education and information portal, is targeted at busy, working professionals. It is widely recognized for its depth of available information, which is presented in a friendly, compelling format. The Canon Digital Learning Center's comprehensive online resources include tutorials, interviews, QuickGuides and downloadable White Papers; it continues to grow with the addition of information in support of the new Cinema EOS family of video products. Available assets range from comprehensive system FAQs, technical articles by professional cinematographers, interactive menu and button simulators to tutorials, sample videos, behind the scenes and much more. And because the Canon Digital Learning Center is tablet friendly, our encyclopedic online materials are always accessible 24/7 via the internet, anywhere in the world. Think of it as the "Anytime, Anywhere" resource for professionals, enabling you to hit the set running with the confidence and know-how to make the very most of the Cinema EOS system.

Learn more at: [learn.usa.canon.com](http://learn.usa.canon.com)

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