

BROADCAST LENSES



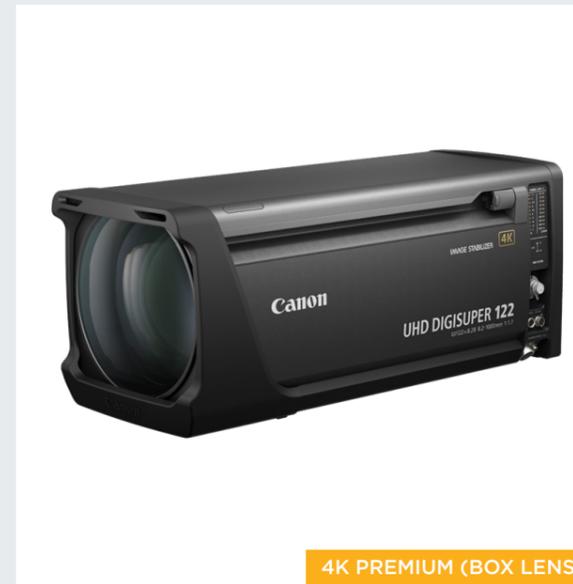
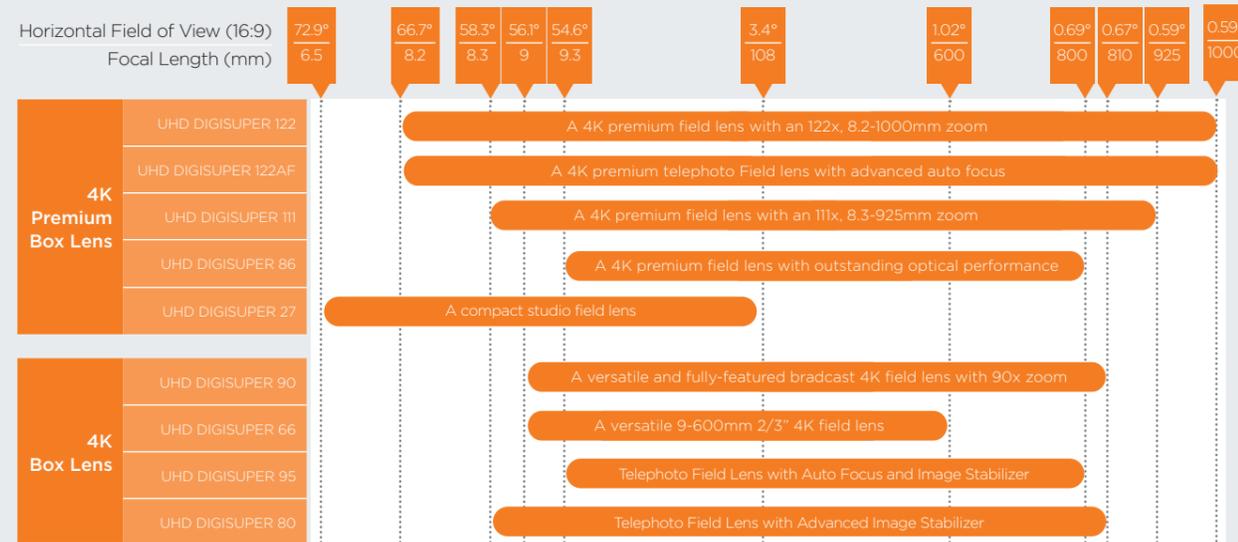
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IN PERFORMANCE**

Canon



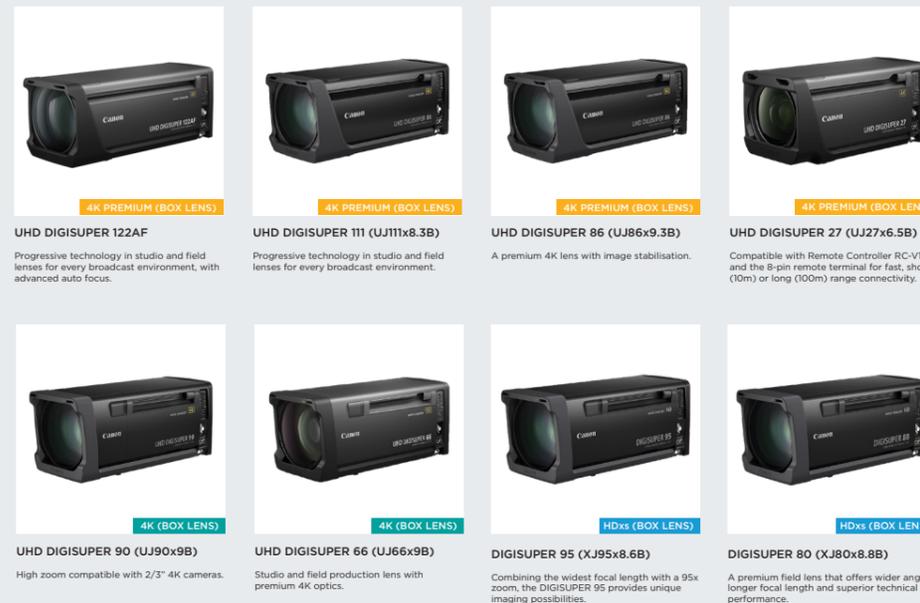
STUDIO & FIELD LENSES

Progressive technology for every shooting environment, join the industry move to 4K broadcasting with peerless-quality.



UHD DIGISUPER 122
(UJ122x8.2B)

Progressive technology in studio and field lenses for every broadcast environment. Join the industry move to 4K broadcasting with this peerless-quality 2/3" 4K field zoom lens.



UHD DIGISUPER 122AF
Progressive technology in studio and field lenses for every broadcast environment, with advanced auto focus.

UHD DIGISUPER 111 (UJ111x8.3B)
Progressive technology in studio and field lenses for every broadcast environment.

UHD DIGISUPER 86 (UJ86x9.3B)
A premium 4K lens with image stabilisation.

UHD DIGISUPER 27 (UJ27x6.5B)
Compatible with Remote Controller RC-V100 and the 8-pin remote terminal for fast, short (10m) or long (100m) range connectivity.

UHD DIGISUPER 90 (UJ90x9B)
High zoom compatible with 2/3" 4K cameras.

UHD DIGISUPER 66 (UJ66x9B)
Studio and field production lens with premium 4K optics.

DIGISUPER 95 (XJ95x8.6B)
Combining the widest focal length with a 95x zoom, the DIGISUPER 95 provides unique imaging possibilities.

DIGISUPER 80 (XJ80x8.8B)
A premium field lens that offers wider angles, longer focal length and superior technical performance.

4K Studio / Field Lenses

The 4K Studio / Field lens series features high contrast and resolution from HDTV to 4K throughout the entire zoom range. These lenses offer impressive optical performance and boasts superior colour reproduction that is consistent to the very edges of the image. Whilst also offering a balance between image quality and operability, these lenses will help users who wish to make the transition from HD to 4K workflows.

What is 4K Premium?

"4K Premium" refers to a top-quality Canon lens that features superior optical performance — typified by powers of resolution and contrast that surpass 4K — and that also supports the high-level specifications and operability that are optimally suited to 4K broadcast systems.

UHD DIGISUPER 122

UHD DIGISUPER 122 - our 4K Premium flagship broadcast lens. As our most refined lens designed to support 4K UHD broadcast systems, it boasts extremely high optical performance that surpasses even 4K criteria and, at the same time, embodies the ease of operation that are ideally suited for use in broadcast television production.

High zoom ratio and long focal length
While displaying performance that surpasses 4K, the lens has the high zoom ratio (86x) and long focal length (800 mm) desired by many in television production.

Optical performance that goes beyond 4K even when using the built-in 2x extender and image stabiliser (function that counters lens-camera inadvertent movements and vibrations).
Thanks to the precision of its high-grade components and assembly, the lens achieves optical performance that goes beyond 4K even when the built-in 2x extender has been engaged. Also featured is an optical shift-type image stabilising mechanism of Canon's highest grade, helping to achieve image stabilising performance commensurate with 4K.

Applicability and ease of operation ideally suited to 4K shooting
Since the lens achieves the zoom ratio, long focal length and size as well as the servo speed and stability required for the telecasting of live sports events and other applications, it ensures the applicability and ease of operation ideally suited to 4K shooting.

Optical performance that goes beyond 4K
This lens has outstanding performance that goes beyond 4K resolution, all the way from screen centre to the edges. Picture sharpness is maintained over the focal range of the lens and with changes in subject distance from the lens.

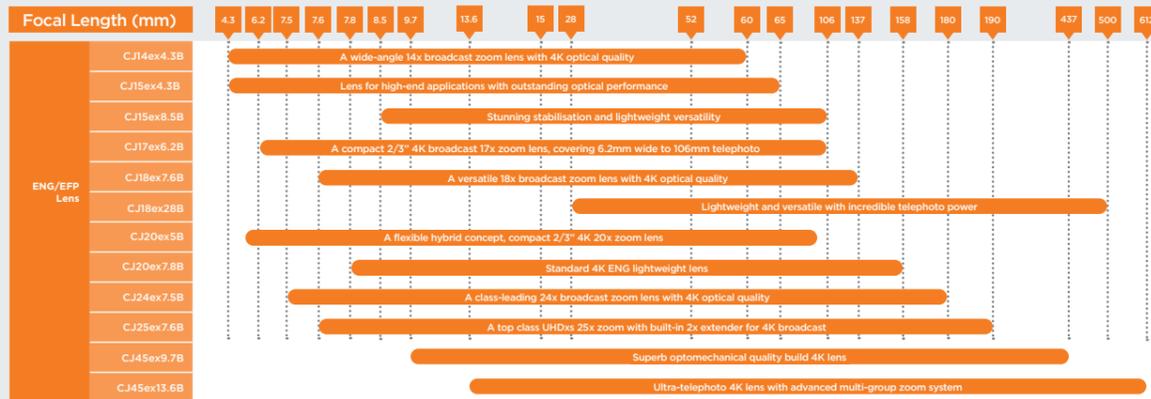
Remotely operable macro function as standard
When the focal length is changed with the zoom while shooting in macro, the focus position also changes. This feature can be utilized to support special techniques in which the focus position can be shifted within the same shot just by using the zoom.



Compatibility with HD lens systems
The lens enables the use of the same Canon standard controllers for zoom and focus as well as servo modules currently used with HD equipment. It comes with a 20-pin connector compatible with virtual units and that enables high-accuracy position information of the zoom, focus and iris to be read out.

ENG / EFP / PRO VIDEO LENSES

A class leading range of ENG/EFP lenses for 4K or HDTV productions. With extensive choice covering wide to telephoto zoom, the range covers 2/3" cameras, including options for cost-effective UHD acquisition systems plus Canon's xs technology and enhanced Digital Drive Unit.



UHDxs

UHDxs are Canon's premium ENG/EFP lenses, they not only achieve the outstanding resolution and grayscale characteristics that UHD images require, they also minimize colour blur and outline coloration and various other kinds of aberrations to a high degree of accuracy. These class leading lenses are designed to achieve superior balance between the high-grade resolution power and the contrast expected of UHD images from the centre to the edges throughout the entire zoom range, besides offering high levels of both operability and applicability.

UHDgc

UHDgc - combines 2/3" 4K camera optical performance with the same practicality and operability found in HD lenses (high specifications, compact size, light weight). And for customers considering a shift to 4K system in the future, this 4K lens series is the popular class at an affordable price that users can truly consider a good up-front investment.



CJ45ex13.6B IASE-V H
Stellar and robust super-telephoto 4K lens with ultra-high zoom- ideal for sports and wildlife capture.



CJ45ex9.7B IASE-V H
Stellar and robust super-telephoto 4K lens with ultra-high zoom- ideal for sports and wildlife capture.



CJ25ex7.6B IASE-S
Reach new standards in optical clarity with a 2/3-in 4K zoom lens designed for high definition broadcasting.



CJ20ex7.8B IASE-S
Wired remote control of your camera enables control over virtually all camera functions.



CJ20ex5B IASE-S
A flexible hybrid concept, compact 2/3" 4K broadcast 20x zoom lens.



CJ15ex4.3B IASE-S
A compact and lightweight 15x broadcast zoom capable of producing stunning 4K HDR footage in a wide range of broadcasting applications.



CJ24ex7.5B IASE-S
Reach new standards in optical clarity with a 2/3-in 4K zoom lens designed for high definition broadcasting.



CJ18ex28B IASE-S
A compact, portable and lightweight 2/3" 28-500mm 4K broadcast zoom featuring a 2x extender for an exceptional 1000mm telephoto reach.



CJ18ex7.6B IASE-S/KASE-S
Replace copy with: A versatile 18x zoom lens with 4K optical performance - the perfect choice for broadcast studio productions.



CJ17ex6.2B IASE-S
A flexible hybrid concept, compact 2/3" 4K broadcast 17x zoom lens, covering 6.2mm wide to 106mm telephoto.



CJ15ex8.5B KRSE-V
A compact and light 2/3" 8.5-128mm UHDgc lens boasting a Vari-Angle Prism for exceptional optical stabilisation at high magnification.



CJ14ex4.3B IASE-S
Discover the new UHDgc range of Canon 4K zoom lenses for UHD broadcast.



HJ40ex14B IASD-V
A super telephoto lens especially suited for natural history, documentaries and challenging locations.



HJ40ex10B IASD-V
A super telephoto lens especially suited for sports, documentaries and challenging location productions.



KJ22ex7.6B IRSE/IASE
Affordable 2/3" portable telephoto with excellent focal range, optical performance, and handling.



KJ20ex8.2B IRSD/KRSD
2/3" portable telephoto HD lens with extra wide angle for outstanding optics and value in a compact design.



KJ17ex7.7B IRSE/IASE
Affordable 2/3" portable standard lens with excellent focal range, optical performance, and handling.



KJ13x6B KRS
Affordable 2/3" portable wide angle lens with excellent focal range, optical performance, and handling.



KJ10ex4.5B IRSE-A/IASE-A
Affordable 2/3" portable wide angle lens with excellent focal range, optical performance, and handling.

Minimizes axial and magnification chromatic aberration
Optimum arrangement of fluorite and UD glass delivers exceptional color reproduction to every corner of the image.

Optical performance to support 4K cameras
Our exclusive optical design technology ensures optical performance to support 4K cameras.

Virtual Systems
The high-resolution 16-bit encoder makes detailed representation of images possible. The accurate position information detection makes calibration easy during CG synthesis.

Operability
Three Canon-made 20-pin connectors are provided. This ensures integration with virtual terminals even with a full servo setup with focus and zoom controllers connected.

Quick power-on
With its absolute value encoder, it can power on without initialization. Camera-side aberration correction function, position detection, and viewfinder position display are possible at time of start-up.

Built in 2x extender
Delivers 4K camera optical performance even when using 2K.





CINEMA LENSES

Engineered Canon cine lenses that meet the high standards of cinematographers.

CINE SERVO

Blending stunning 4K optical quality with broadcast-friendly features, the Canon Cine Servo lenses offer a choice for broadcast where servo control is required.



CN20x50 IAS H E1/P1
Ultra-telephoto cine-servo lens.

CN10x25 IAS S E1/P1
Compact and lightweight 25mm-250mm 10x CINE-SERVO lens, with the added flexibility of a 1.5x extender.

CN7x17 KAS S E1/P1
Versatile EF and PL-mount servo lens.

- 1 Removable Servo Drive Unit**
Enables broadcast or hand-held production. Simple to remove (for operation as a traditional cine lens) and reinstall.
- 2 Standard Connectivity**
Extensive lens communication (12-pin, EF, Cooke /i) options support a range of production styles for added versatility.
- 3 12-Pin Serial Cable**
Supplied with the lens, this standard interface cable can provide power and allows iris control with compatible cameras.
- 4 Designed for Broadcast Use**
Weatherproof and shockproof, with 180° focus travel. Ideal for use in shooting environments where mobility is key.
- 5 Fast Start-Up**
Near-instant start-up and high-speed operation ensure you never miss a moment.
- 6 Flange-Back Adjustment System**
A user accessible flange back mechanism is featured for accurately adjusting back-focus.
- 7 3-Group Inner Focus System**
Developed specifically for Canon lenses to reduce focus breathing to an absolute minimum.



COMPACT CINE SERVO

Compact Cine Servo zoom lenses are designed for 4K Super 35mm cameras and feature built-in servo control.



CN-E70-200mm T4.4 L IS

Affordable, workhorse telephoto lens, with precise, smooth electronic zoom and 4K-quality optics.

CN-E18-80mm T4.4 L IS KAS S

An affordable, large-format Canon cinema lens, with high-end quality cine-servo features.

REMOVABLE AND TILTABLE SERVO GRIP



(Optional)

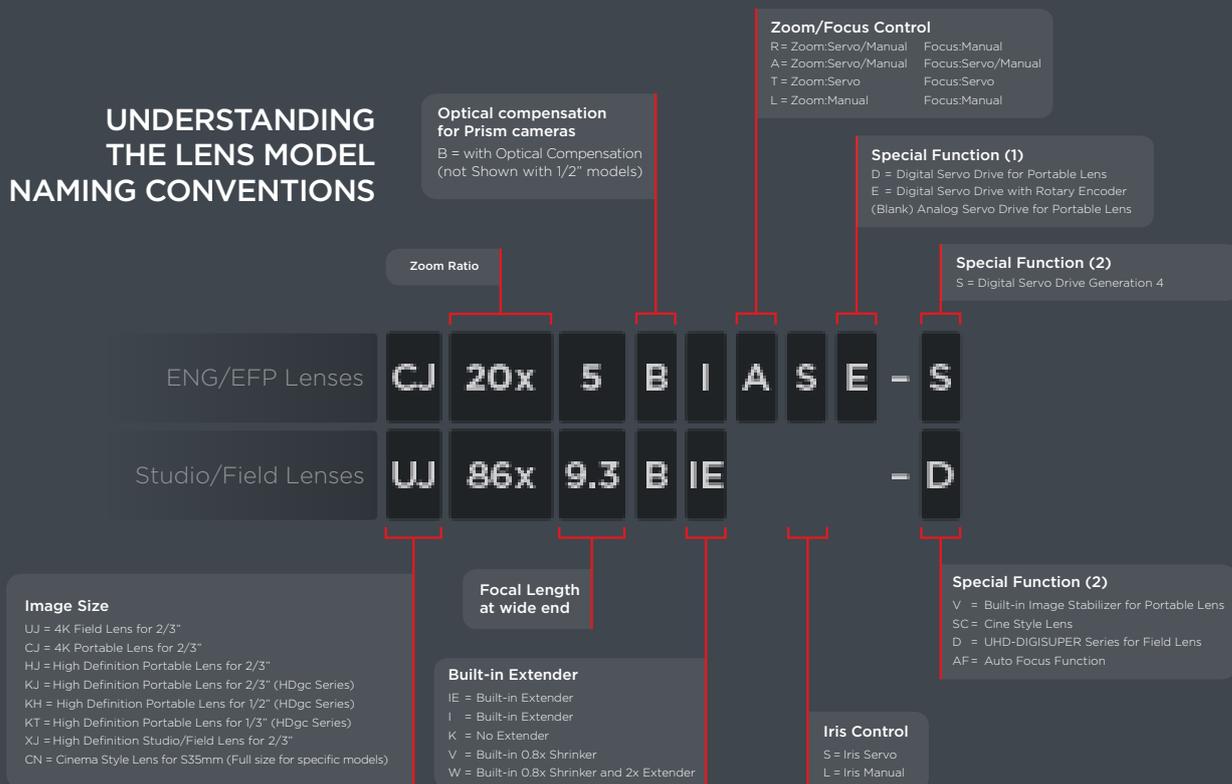
- 1 Outstanding 4K Optics**
High grade optical performance is achieved across the entire zoom range from the centre of the image to the edges, with reduced focus breathing.
- 2 Detachable Servo Zoom Grip**
The optional ZSG-C10 servo grip features a convenient rocker switch and start/stop record & one-shot autofocus buttons.
- 3 EF Lens Mount**
Integration with Canon's EF-mount cameras allows the lens to benefit from advanced autofocus and communication of metadata, as well as direct power from the lens mount.
- 4 Advanced Image Stabilisation**
Stable shooting is enabled even while the camera is hand-held by enabling Canon's optical image stabilization (IS) function.
- 5 Compact and Lightweight**
Smaller and lighter than conventional cine servo lenses, ideal for run-and-gun applications.
- 6 Zoom / Focus Controller**
Either the Canon Zoom Controller ZSD-300D or the Focus Controller FPD-400D can be used for broadcast applications.



LENS COMPARISON CHART

	CINE SERVO			COMPACT SERVO	
	CN7x17 KAS S E1/P1	CN10x25 IAS S E1/P1	CN20x50 IAS H E1/P1	CN-E18-80MM T4.4 L IS KAS S	CN70-200MM T4.4 L IS KAS S
Mount	EF / PL	EF / PL	EF / PL	EF	EF
Focal Length	15.5-47mm	25-250mm (37.5-375mm with 1.5x Extender)	50-1000mm (75-1500mm with 1.5x Extender)	18-80mm	70-200mm (up to 400mm with EF 2x Extender)*
Zoom Ratio	7x	10x	20x	4.4x	2.85x
Max Relative Aperture (T-Number)	T2.95 at 17-9mm / T3.9 at 120mm	T2.95 at 25-187mm / T3.95 at 250mm / T4.4 at 375-281mm / T5.9 at 375mm	T5.0 at 50-560mm / T8.9 at 1000mm / T7.5 at 75-840mm / T13.35 at 1500mm	T4.4 at 18-80mm	T4.4 at 70-200mm
Iris Blades	11	11	11	9	9
Angle of View	75.2° x 44.2° at 17mm / 12.5° x 6.6° at 120mm	52.4° x 30.9° at 25mm / 5.6° x 3.2° at 250mm	29.4° x 15.7° at 50mm / 1.5° x 0.8° at 1000mm / 19.8° x 10.5° at 75mm / 1.0° x 0.5° at 1500mm	68.7° x 41.9° at 18mm / 17.5° x 9.9° at 80mm	19.9° x 11.3° at 70mm / 7.0° x 4.0° at 200mm
M.O.D From Image Sensor (Metres / Feet)	0.85m / 2'8" / 0.1m from lens front with macro	1.2m / 4' / 0.1m from lens front with macro	3.5m / 11'5" / 1.54m from lens front with macro	0.5m / 1'7"	1.2m / 4'
Object Dimensions at M.O.D	92.1 x 48.5cm at 17mm / 12.7 x 6.7cm at 120mm	92.1 x 48.5cm at 25mm / 9.3 x 4.9cm at 250mm / 61.4 x 32.3cm at 375mm / 6.2 x 3.3cm at 375mm	148.3 x 78.1cm at 50mm / 7.8 x 4.1cm at 1000mm / 98.9 x 52.1cm at 75mm / 5.2 x 2.7cm at 1500mm	43.4 x 24.3cm at 18mm / 9.5 x 5.3cm at 80mm	31.3 x 17.5cm at 70mm / 11.5 x 6.4cm at 200mm
Front Diameter	Ø114mm	Ø114mm	Ø136mm	Ø77mm	Ø77mm
Approx. Size (WxHxL)	EF: 174.2 x 125 x 262.9mm / PL: 174.2 x 125 x 254.9mm	EF: 186.7 x 131.7 x 282.1mm / PL: 186.7 x 131.7 x 274.1mm	EF: 175 x 170.6 x 413.2mm / PL: 175 x 170.6 x 405.2mm	93.4 x 107.2 x 182.3mm	93.4 x 107.2 x 182.3mm
Approx. Weight	2.9kg	3.06kg	6.6kg	1.2kg (Incl. servo unit)	1.25kg (Incl. servo unit)
Pitch of Follow Focus Gear	0.8mm	0.5mm or 0.8mm	0.5mm or 0.8mm	0.8mm	0.8mm

UNDERSTANDING THE LENS MODEL NAMING CONVENTIONS



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