

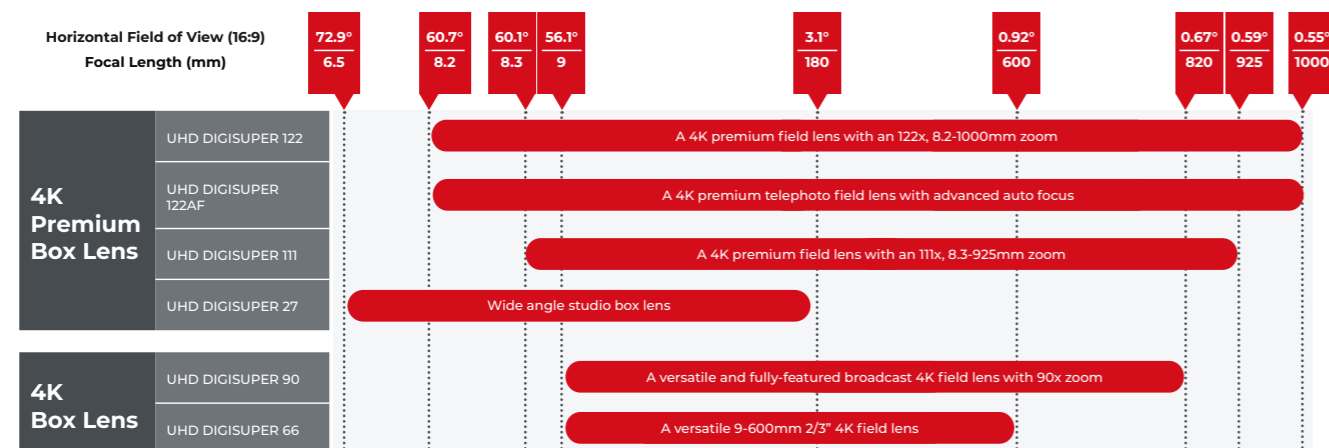


**UNRIVALLED
IN PERFORMANCE**



STUDIO & FIELD LENSES

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



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 (122x) and long focal length (1000 mm) desired by many in television production.

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.

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.

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 by 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.



UHD DIGISUPER 122AF



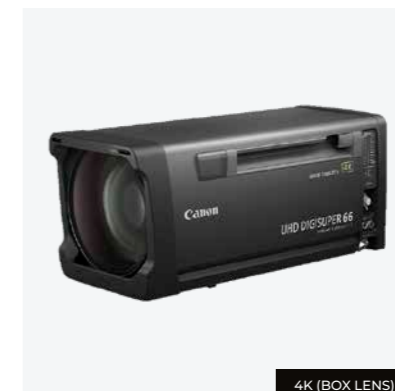
UHD DIGISUPER 111
UJ111x.3B



UHD DIGISUPER 27
UJ27x6.5B



UHD DIGISUPER 90
UJ90x9B



UHD DIGISUPER 66
UJ66x9B



DIGISUPER 80
XJ80x8.5B



STUDIO & FIELD LENSES - ZOOM AND FOCUS DEMANDS

The ZDJ-G01/S01 and FDJ-G01/S01 are zoom and focus demands that offer the flexibility to meet new and diverse user requirements in the 4K era, whilst retaining ease of use and a compact design.

4K Support

Support for 4K capture, which requires precise control. The FDJ-G01 features a special adjustment feature for better focusing accuracy

Flexible functionality

The basic major operations are handled with independent switches, and users who need advanced functionality can use the built-in display for a variety of function settings.

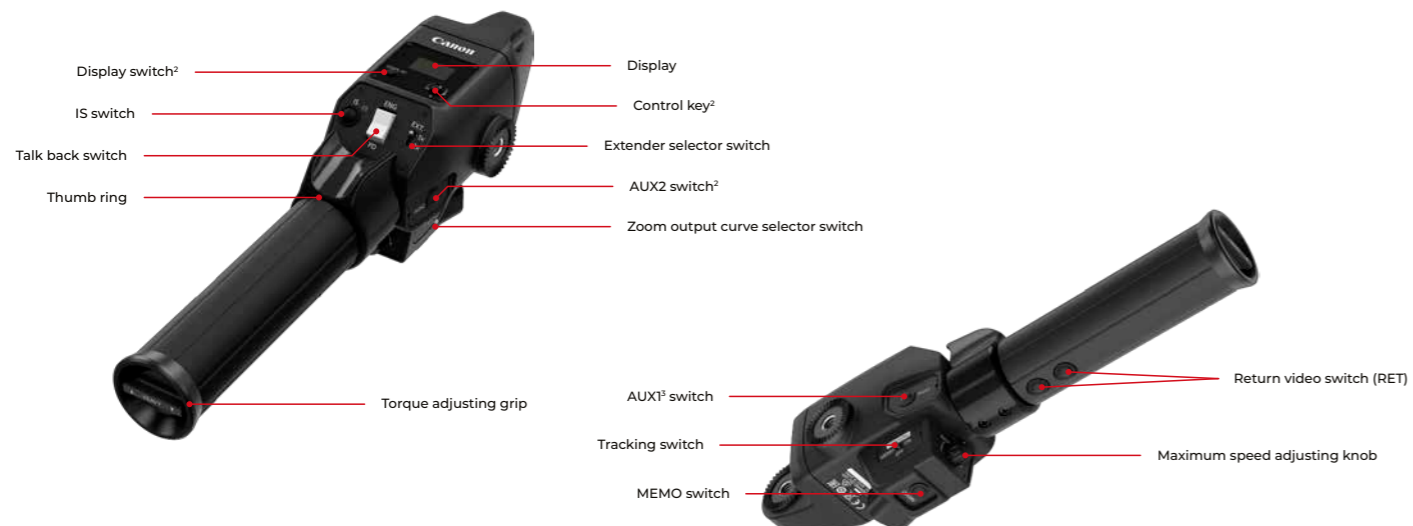
Compact Ergonomic Design

The design is compact while keeping all the necessary functionality required for a host of applications.

A variety of models to meet user needs

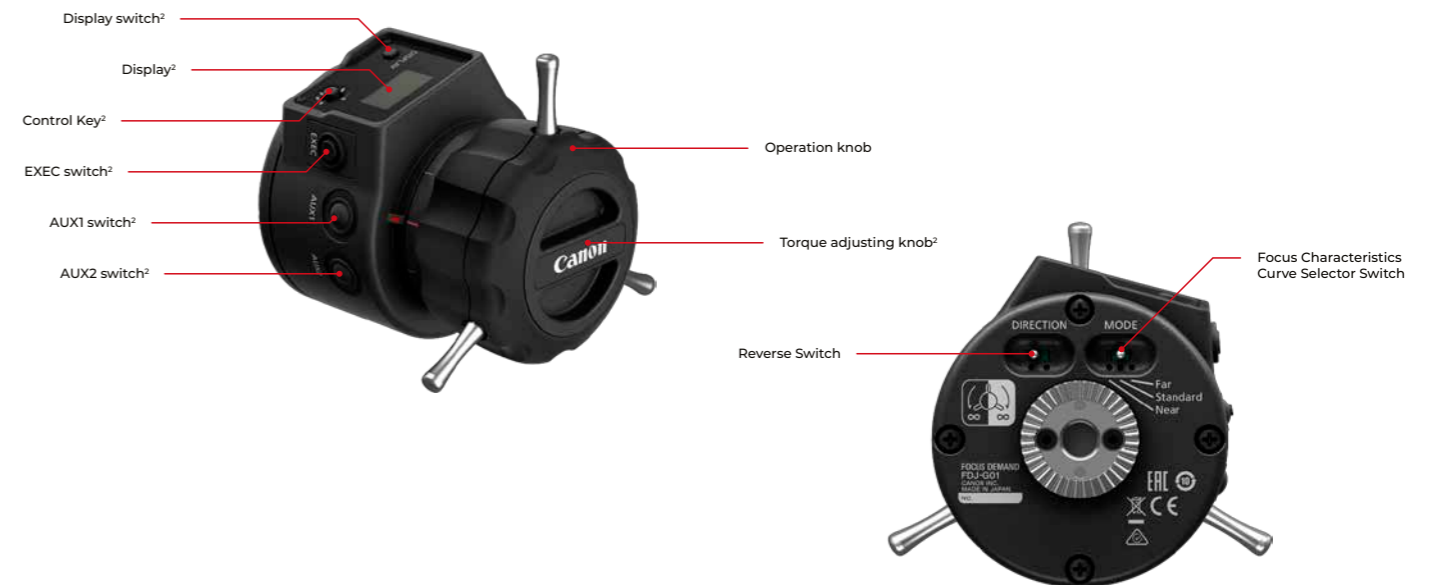
The lineup consists of two models with standard and full specifications that users can select according to their needs. The ZDJ-S01 & FDJ-S01 models include standard features, while the ZDJ-G01 & FDJ-G01 models offer enhanced functionality that is required for more complex operations. A separate FDJ-S31/f1 Focus demand is required for operating the UHD DIGISUPER 122AF

ZDJ-G01/ZDJ-S01



¹ The unit pictured is the ZDJ-G01
² Not available on the ZDJ-S01
³ This is a framing preset switch on the ZDJ-S01

FDJ-G01/FDJ-S01



Zoom Demand

Function	ZDJ-G01	ZDJ-S01
Extender selector switch	•	•
Talk back	•	•
Return 1/2	•	•
Zoom track	•	•
Frame preset	• DISP	•
Shuttle	• DISP	•
Speed preset	• DISP	•
IS	•	•
Zoom curve	• DISP	•
Thumb ring reverse	• DISP	•
AUX1 · 2	•	•
Speed adjustment	•	•
Thumb ring torque adjustment	•	•

Focus Demand

Function	FDJ-G01	FDJ-S01
Focus curve select	• DISP	•
Reverse switch	•	•
Torque adjusting knob	•	•
AUX1 · 2	•	•
Focus range limit	• DISP	•
Fine Focus Mode 1	• DISP	•
Fine Focus Mode 2	• DISP	•
Control range limit	• DISP	•
Focus preset	• DISP	•

DISP : Uses display

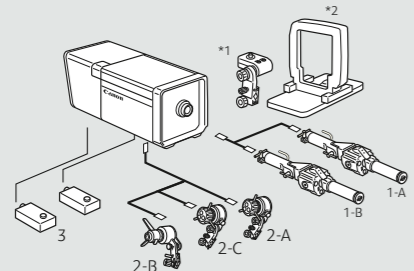


CONTROL ACCESSORIES FOR STUDIO/FIELD LENSES

DIGITAL UHD DIGISUPER & DIGISUPER SERIES

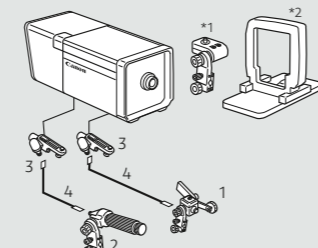
For: **UHD Digisuper and Digisuper series**

Full Servo System



1-A.	Zoom Demand ZDJ-G01	-
1-B.	Zoom Demand ZDJ-S01	-
2-A.	Focus Demand FDJ-G01	-
2-B.	Focus Demand FDJ-G11	-
2-C.	Focus Demand FDJ-S01	-
3.	Servo Module SMJ-E01 (*2pcs)	-
*1	Switch Box	-
*2	Supporter	-

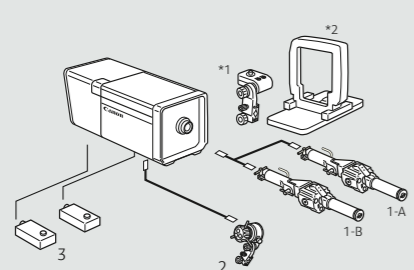
Full Manual System



1.	Flexible Zoom Controller FZP-T61	1822A005
2.	Flexible Focus Controller FFP-T61	1822A007
3.	Flexible Module FMJ-702 (*2pcs)	1822A072
4.	Flexible Cable 36" (*2pcs)	—

For: **UHD DIGISUPER 122AF**

Full Servo System



1-A.	Zoom Demand ZDJ-G01	-
1-B.	Zoom Demand ZDJ-S01	-
2.	Focus Demand FDJ-S31 / 41	-
3.	Servo Module SMJ-E01 (*2pcs)	-
*1	Switch Box	-
*2	Supporter	-

*A20P-12P demand cable (BDC-2I) is required for use with XJ22x/portable lenses.

*1 Switch Box is optionally available. The equivalent switches are integrated into Zoom Demands. It is recommended to have the Switch Box with Full Manual System.

*2 Lens Supporter is necessary for portable camera mounting. Some cameras need separate power supply for zoom and focus servo operation.

*3 For UHD DIGISUPER 122AF, FDJ-S31 is necessary to control the AF function. FDJ-S41 is also available for left hand users.

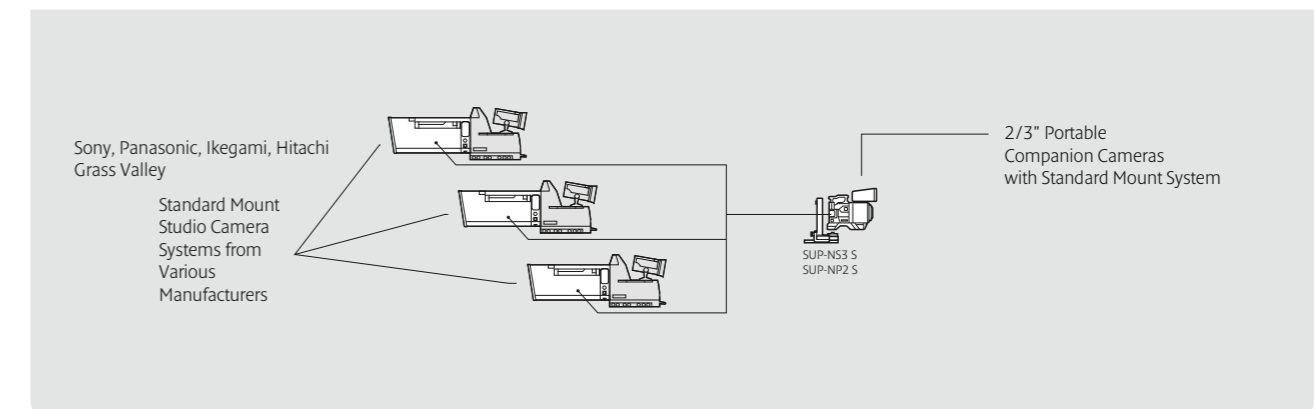
- Zoom Demand and Focus Demand with Pre-set Box is also available.

- For detail information, please contact a Canon Dealer.

STUDIO/FIELD LENSES MOUNT COMPATIBILITY

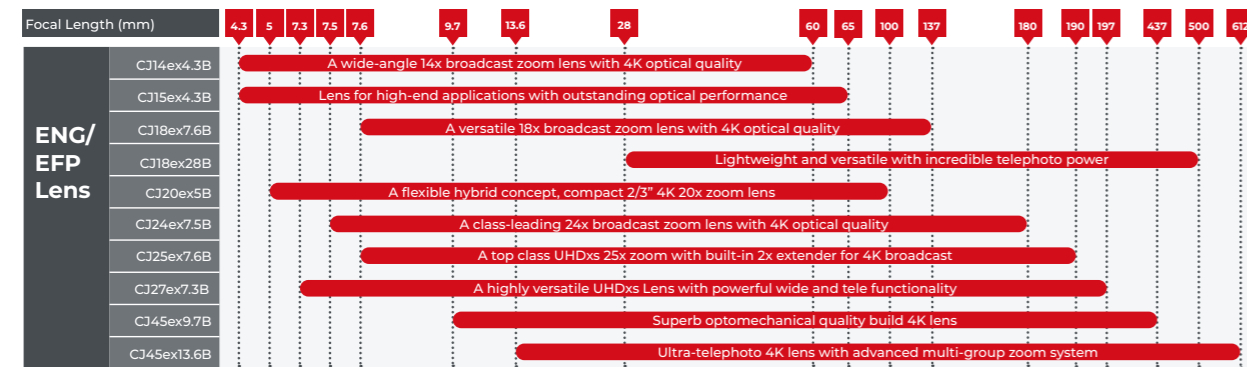
To Use Camera Manufacturer's Original Mount Lens

Studio/Field lenses are made with unique mounts corresponding to each manufacturer's Studio/Field cameras. To make the lenses compatible with Portable Studio/Field Companion cameras, the correct lens Support System must be chosen from the following.



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.

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

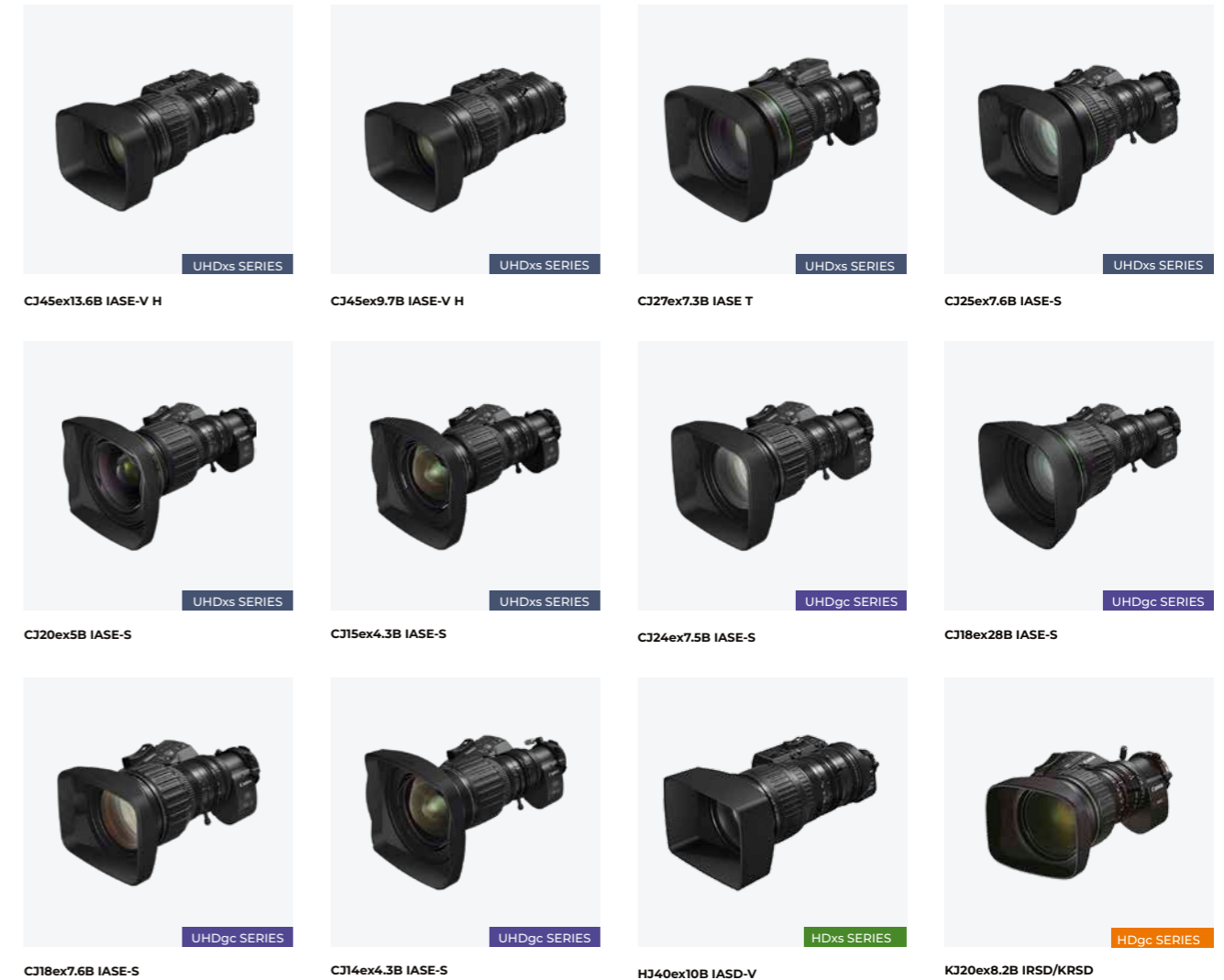
Optical performance to support 4K cameras
Our exclusive optical design technology ensures optical performance to support 4K cameras.

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



Re-engineered eXs-V digital drive unit

The new Digital Drive Unit brings more to selected Canon UHDxs lenses, exceeding the high standards demanded by professionals. Thanks to improved servo control, a repositioned information display and USB-C connectivity for easier set-up and maintenance, the eXs-V drive enhances the current and future lineup of portable broadcast lenses.

Currently available on CJ27ex7.3B and CN7x17 KAS T.



Focus Breathing Compensation

A feature which minimises image distortion when setting focus. This feature can easily be turned on or off depending on preference.

Ergonomic Design

Designed to reduce user fatigue.

Improved Servo Control

Increased iris speed.

New USB-C Port

Allows Drive Unit settings to be saved and loaded into other lenses. End users would be able to update firmware and can record and save maintenance history.

New Information Display

Conveniently located on the top of the drive unit with a simplified menu.

Angled 20-Pin Connector

Allows the camera to be placed on a flat surface with a 20-pin cable connected.

Remote and Virtual Support

The high-resolution, 16-bit absolute value encoder enables high-precision location detection, making calibration easier when creating virtual content. The 20-Pin connector can be switched to a virtual terminal to output zoom, focus, and iris position information.



LARGE FORMAT LENSES

Engineered Canon cine lenses that meet the high standards of today's broadcasters.

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.

CN8x15 IAS S E1/P1
Compact 15-120mm wide angle Cine Servo Lens with 1.5x extender.

CN7x17 KAS T R1/P1
Versatile 17-120mm wide angle Cine 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, RF, 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.
- 8 Built in 1.5x Extender**
Built in 1.5x extender for increased reach and sensor coverage (Not available on CN7x17).



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 Tilttable Servo Grip



(Optional Accessory)

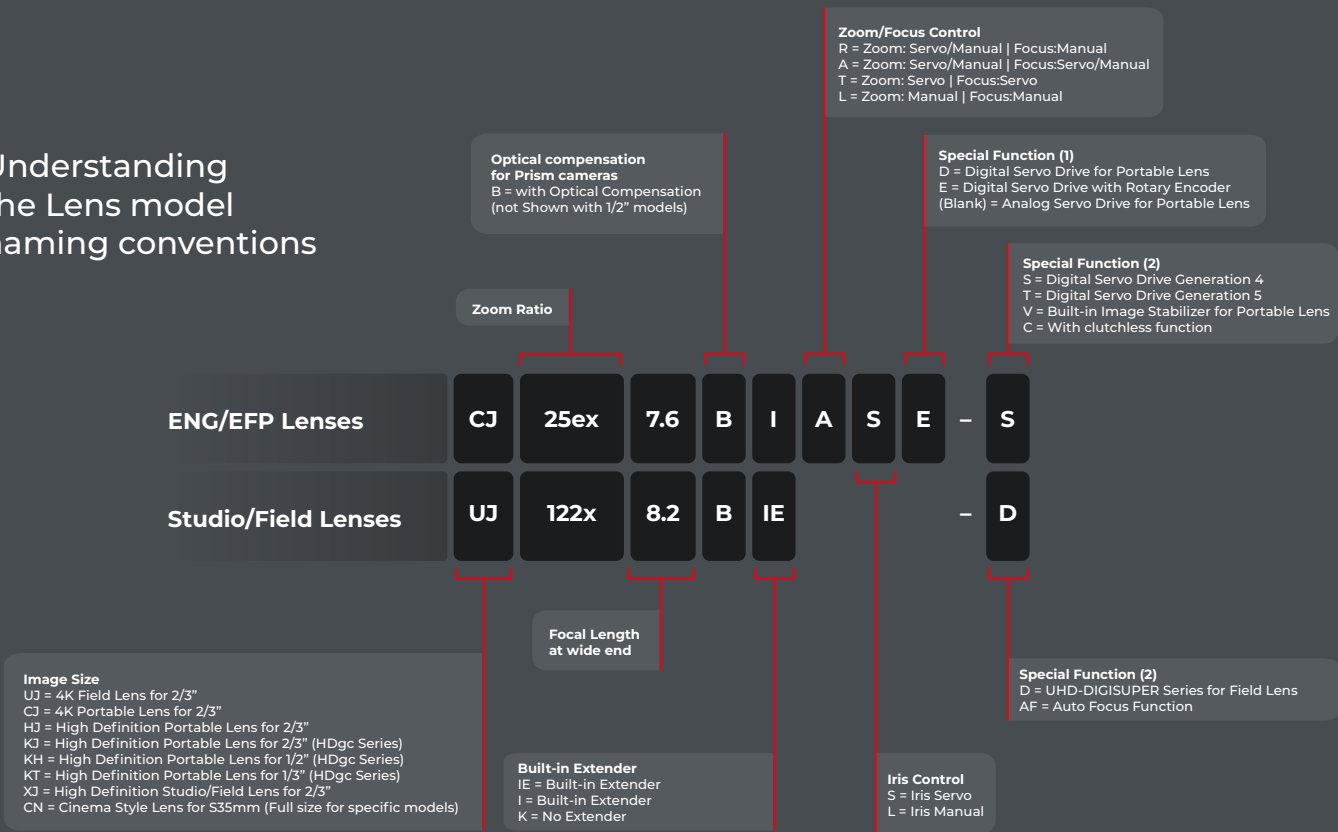
- 1 Outstanding 4K Optics**
High grade optical performance is achieved across the entire zoom range from the centre of the image to the edges, with reduced focus breathing.
- 2 Detachable Servo Zoom Grip**
The optional ZSG-C10 servo grip features a convenient rocker switch and start/stop record & one-shot 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 T R1/P1	CN8x15 IAS 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	RF / PL	EF / PL	EF / PL	EF / PL	EF	EF
FOCAL LENGTH	17-120mm	15-120mm (22.5-180mm with 1.5x Extender)	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	8x	10x	20x	4.4x	2.85x
MAX RELATIVE APERTURE (T-NUMBER)	T2.95 at 17-91mm / T3.9 at 120mm	T2.95 at 15-90mm / T3.95 at 120mm	T2.95 at 25-187mm / T3.95 at 250mm	T5.0 at 50-560mm / T8.9 at 1000mm	T4.4 at 18-80mm	T4.4 at 70-200mm
IRIS BLADES	11	11	11	11	9	9
ANGLE OF VIEW	75.2° x 44.2° at 17mm 12.5° x 6.6° at 120mm	78.7° x 49.4° @ 15 mm 11.7° x 6.6° @ 120 mm	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 17.5° x 9.9° at 80mm	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	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	92.2 x 48.6cm at 17mm 12.8 x 6.7cm at 120mm	93.0 x 52.1 cm at 15 mm 11.3 x 6.3 cm at 120 mm 62.0 x 34.7 cm at 22.5mm 7.5 x 4.2 cm at 180 mm	92.1 x 48.5cm at 25mm 9.3 x 4.9cm at 250mm 61.4 x 32.3cm at 37.5mm 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	Ø114mm	Ø136mm	Ø77mm	Ø77mm
APPROX. SIZE (WXHXL)	RF: 174.1 x 125 x 286.9mm PL: 174.1 x 125 x 254.9mm	EF: 186.7 x 131.7 x 294.9 mm PL: 186.7 x 131.7 x 286.9 mm	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	3.1kg	3.40kg	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	0.5mm or 0.8mm	0.8mm	0.8mm

Understanding the Lens model naming conventions



SEE NO LIMITS

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