

BROADCAST & CINEMA LENS CATALOG





INNOVATION In TV Optics Since 1958 Toward 100 years anniversary



pro.usa.canon.com/support . 800-423-LENS

For more info: pro.usa.canon.com

♥@CanonUSApro f @CanonUSA @CanonUSAprovideo @CanonUSA

The size and weight of all lenses within this brochure may vary according to the applicable camera models

©2019 Canon U.S.A., Inc. all rights reserved.

Certain images and effects are simulated. Specifications and availability are subject to change without notice. Products not shown to scale. Weight and dimensions are approximate. Not responsible for typographical errors. Canon is a registered trademark of Canon Inc. in the United States and may also be a registered trademark or trademark in other countries. All other product and brand names are trademarks, or service marks of their respective owners and are hereby acknowledged.

PRINTED IN U.S.A.



1-800-0K-CANON usa.canon.com

60 YEARS

INNOVATION

In TV Optics Since 1958

Toward 100 years anniversary

Canon U.S.A., Inc. One Canon Park Melville, NY 11747 U.S.A.





CANON BROADCAST ZOOM LENSES

Celebrating Canon's Storied History

Development of Broadcast Zoom Lenses

In 1958, Canon launched its broadcast lens business by introducing the innovative high zoom ratio 6.7 IF-1 lens. Ever since, Canon has continued to listen to the demands of broadcasters and cinematographers around the world by developing lenses based on industry trends.

Canon's Emmy[®]-Winning Lens Technology

Canon's highly regarded lens technology is a recipient of the Technology and Engineering Emmy[®] Award. The National Academy of Television Arts and Sciences awarded Canon a Technology & Engineering EMMY[®] Award in 2005 in recognition of our engineering creativity in Lens Technology Developments for Solid State Imager Cameras in High Definition Formats. We also received an EMMY[®] in 1996 for *"Implementation In Lens Technology to Achieve Compatibility with CCD Sensors."* In addition, we received an EMMY[®] in 2017 for *"Large Format 4K Zoom Lenses"*.

CANON'S LENS TECHNOLOGY: WELCOME TO THE 4K/UHD ERA







		Broadcast Studio and Field Lenses	
Broadcast Zoom L	ens Lineup	4K UHD 2/3" UHD-DIGISUPER 122 UHD-DIGISUPER 122 4K Premium UHDxs	JHC 4k Jh
			JHD 4K JH
		HD 2/3" DIGISUPER 100AF	DIG
Catton average 222	Studio & Field	DIGISUPER 95	DIG
Catton UHD DIGISUPER 122	Lenses	DIGISUPER 76 DIGISUPER 27A	F CU:
		Broadcast ENG/EFP Lenses	
		4K UHD 2/3" CJ45e×13.6B CJ45e×9.7B 4K UHD 2/3" 4K UHDxs 4K UHD	
		CJ12e×4.3B CJ12e×4.3B CJ24e×7.5B CJ24e×7.5B CJ24e×7.5B CJ24e×7.5B	
	ENG/EFP	CJ18e×28B CJ15ex8.5B	
	Lenses	HD 2/3"	
		KJ22e×7.6B KJ17e×7.7B	
		HD 1/3″ КТ17ех4.3В ЮGС	
		Pro-Video Lenses	
	Pro-Video &	HD 2/3" KJ20×8.2B (IRSD) KJ20×8.2B (IRSD) K	(J2
	Remote-Controlled Lenses	HD 1/2" KH20×6.4 FPGC	
		Remote Controlled Lenses	
		HD 2/3" KJ22ex7.6B (ITS-ME/RE)	J17
		HD 1/2" KH20x6.4 (KTS)	





CANON BROADCAST LENSES

Focal Length Table

Broadcast, Stud	dio a	and F	ielo	d L	ens	es ((4K	2/3	", HC) 2/3	")													
Angle of view horizontal (16:9)	72.9°	° 66.7°6	0.7°6	0.1°	58.3°5	57.2°	56.1	° 54.6°	42.3°	39.1°	3.4°	3.1°	1.02°	0.92°	0.81°	0.80°	0.77°	0.69°	0.68°	0.67°0.6	5° 0.5	59°0.5	9°0.55°	0.47°
Focal Legnth (mm)	6.5	7.3	8.2	8.3	8.6	8.8	9	9.3	12.4	13.5	161	180	540	600	675	690	710	800	810	820 84	0 92	25 93	0 1000	1178
UHD-DIGISUPER 122						-	÷.						- i -						1					
UHD-DIGISUPER 111																								
UHD-DIGISUPER 90								-			-	-			_		į							
UHD-DIGISUPER 86																								
UHD-DIGISUPER 66													į											
UHD-DIGISUPER 27				1	1			1																
DIGISUPER 100 AF																								
DIGISUPER 100													1	1		1	-	1	1					
DIGISUPER 95 TELE																								
DIGISUPER 95						-		i					i			i	i	i	i					
DIGISUPER 86 AF														-		:	1							
DIGISUPER 80																								
DIGISUPER 76									1	!			1	!	1									
DIGISUPER 27 AF																								
DIGISUPER 27		1		-	í I		1			1														
DIGISUPER 22 xs																								

Broadcast ENG	5/E	FΡ	Le	ens	ses	(4	K 2	2/3	",⊦	ID 2,	/3"))																					
Angle of view horizontal (16:9)	96.3	°93.7	7°77.	.3°7	75.5°6	65.2°	64.6	° 63.	9° 63	2°58.9	° 52.7'	°51.	3° 38.9°	37.8	° 35.5	°19.6°	12.2	° 10.5°	9.1°	7.0°	5.2°	4.3°	4.2°	4.0°	3.5°	3.5°	3.4°	3.3° 3.1	° 2.	.89°1.	4° 1.2	6°1.1′	°1.0° 0.9°
Focal Legnth (mm)	4.3	4.5	56	6	6.2	7.5	7.6	7.	77.	8 8.5	9.7	1() 13.6	14	15	28	45	52	60	78	106	128	131	137	156	158	164	168 18	0 1	90 40	JO 437	7 500	560 612
CJ45e×13.6B																		-		;	÷		÷		;		-	i,					
CJ45e×9.7B												;								1	-		-		1	i							
CJ25e×7.6B												i		÷			1			÷	-					1	÷						
CJ20e×7.8B															-		-		1	-			-	1									
CJ12e×4.3B			1		-		-								-		-																
CJ24e×7.5B																			!	-			÷	!		!							
CJ18e×28B																							į										
CJ18e×7.6B																		-	-	-		-	÷										
CJ15e×8.5B														-			_		-									\rightarrow					
CJ14e×4.3B					-	+						+							-		_		_	_	_	_		\rightarrow					
HJ40e×14B						_									-			-		-	-	-	-	-	-					+			
HJ40e×10B														-	-		-		-	-	-	-		-	-	-	-						
HJ21e×7.5B														-														\rightarrow					
HJ17e×6.2B						-								-		—			-	+													
KJ22e×7.6B								-					-	-									-		-		-						
KJ17e×7.7B											-																						
KJ10e×4.5B											į					The second second																	

Broadcast ENG	i/EFP Lenses (HD 1/3")	
Angle of view horizontal (16:9)	58.3°	3.8°
Focal Legnth (mm)	4.3	73
KT17ex4.3B		

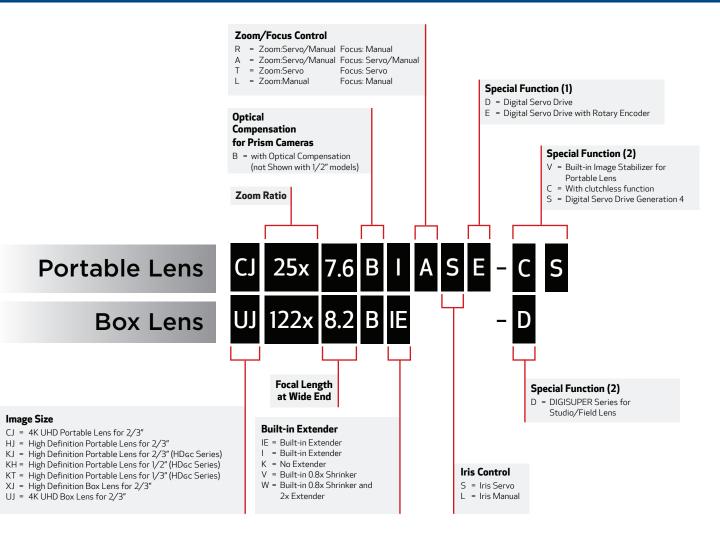
Focal Length Table

Image Size

Pro-Video Len	ses	(HC	2/	′3")																												
Angle of view horizontal (16:9)	96.3°	93.7°	° 77.3°	75.5°	° 65.2°	64.6°	63.9°	63.2°	60.7°	58.9	51.3°	47.1	° 37.8°	° 35.5°	19.6°	12.2°	' 10.5°	9.1°	7.0°	5.2°	4.3°	4.2°	4.0° (3.5°	3.5° 3	3.4° :	3.3° 3.1	° 1.45°	° 1.4°	1.1°	1.15°	1.0°
Focal Legnth (mm)	4.3	4.5	6	6.2	7.5	7.6	7.7	7.8	8.2	8.5	10	11	14	15	28	45	52	60	78	106	128	131	137	156	158 1	164	168 180	385	400	500	525	560
KJ20×8.2B										i		1						-	i	-	-	1	-									
KJ13×6B					1					1																						

Pro-Video Lens	ses (HD 1/2	.")		
Angle of view horizontal (16:9)	75.7°	57.1°	6.8°	3.1°
Focal Legnth (mm)	4.5	6.4	59	128
KH20×6.4				
KH13×4.5				

Understanding Canon Lens Naming Conventions



BROADCAST Lens Technology



Canon Broadcast Lens Technology

Optical Performance

Superb Optical Materials Produce a **High-Performance Lens**

Fluorite · UD Glass · Hi-UD Glass

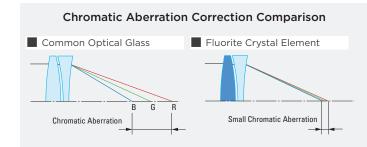
Unlike conventional optical glass, Fluorite has remarkably low dispersion properties. Realizing the effectiveness of Fluorite glass. Canon has put it to practical use in many lenses, primarily in the anterior section of zoom lenses to help correct telephoto chromatic aberration. Both UD^{*1} glass and



Hi-UD glass^{*2} have dispersion properties similar to Fluorite and are effective for correcting chromatic aberration. Due to its high refractive characteristics, Hi-UD glass is especially known for its spherical aberration correction. Used in the anterior and zooming sections of a lens, Hi-UD glass is effective for controlling aberration fluctuation seen when focusing and zooming.

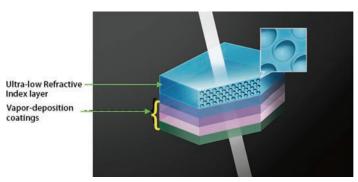
*1 UD-Ultra Low Dispersion

*2 Hi-UD High Index Ultra Low Dispersion.



Air Sphere Coating

In the context of HDR Optical imaging, Air Sphere Coating (ASC) technology is a critically important new innovation in broadcast field lenses. This is a Canon-developed technology that is an additional layer deposited on top of the normal multilayer coatings that are used to minimize numerous internal reflections that conspire to lower light transmission efficiency and to contaminate deep black reproduction. ASC is an ultra-low refractive index silicon dioxide film that includes microscopic air spheres having a sub-nanometer diameter arranged in regular structure. Because



these spheres are microscopic when comparing to the wavelength of visible light and as they are in an ordered array, light does not scatter. In combination with the multilayer coatings, ASC achieves far lower reflectance and significantly reduces flare and ghosting.

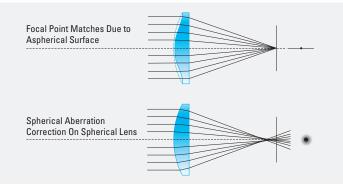
Bokeh Effect

When shooting in macro, the focus position of the lens can be changed as the focal length is adjusted, when using the optional MCJ-S02 Macro Controller, creating a bokeh effect. This built-in feature can be utilized to support special techniques in which the focus position can be shifted within the same shot just by using the Macro Controller, allowing for subtle creative defocus effects. This can help provide a degree of creativity when shooting live events such as a concert.



High Quality, Compact Size and Weight Large Aperture Aspheric Lens

Spherical aberration will increase as the diameter of a spherical lens increases. However, aspheric lenses form an ideal shape for aberration correction and are the desired lens type for improving optical performance. As they are more compact, aspheric lenses reduce the weight of the entire lens system. Through its optical design and large aperture processing techniques, Canon has developed compact, large aperture, high magnification field zoom aspheric lenses. As a result of this development, all highmagnification field zoom lenses released since 2000 have a constant total lens length regardless of zoom ratio.



Focus Breathing Suppression

Constant Angle Focusing System (CAFS)

CAFS is a technology that suppresses view-angle fluctuation (breathing) while focusing. The Zooming Effect of Focus is the phenomenon where the picture size (angle of view) changes when focusing. Canon's 32-bit CPU calculates and controls the zoom when focusing in order to counteract this phenomenon. As a result of CAFS, the UHD-DIGISUPER and DIGISUPER Series has zero Zooming Effect of Focus.

Advanced Design Technology to Help Minimize Various Aberrations

Image Stabilizer (IS)

Canon launched its first field zoom lens with a shift type antivibration mechanism in 2000*. Prior to that, Canon introduced the IS-20B anti-vibration adapter for portable zoom lenses. Those cutting-edge technologies, along with the Vari-angle Prism image stabilizer (VAP-IS) lens, helped to usher in the era of optical image stabilization in broadcasting lenses.

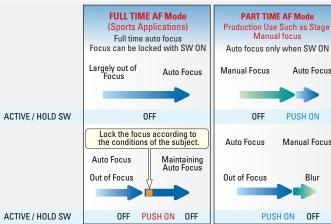
*Adopted for DIGISUPER 86 XS (XJ86 × 9.3 B). The world's first field zoom lens for broadcasting.

Auto Focus

TTL Secondary Imaging Phase Difference Detection Method

The Secondary Imaging Phase Difference Detection Method, also used in single lens reflex EOS camera lenses, was adopted for broadcast autofocus systems. As a result of this Method, Canon's Auto Focus System has excellent focusing accuracy within the entire zoom range, along with outstanding focusing speed. Due to high performance servo motors, tracking a moving object at high speed can be possible even from a largely out of focus state.

■ Autofocus Two Types of Operation



AF Mode

Select DIGISUPER lenses provide two autofocus modes. "FULL TIME AF" provides continuous autofocus operation allowing the camera operator to focus on framing the subject. "PART TIME AF" allows for temporary autofocus use with manual focus. The modes can be switched on and off as needed, using the ACTIVE/HOLD switch.

AF In-Focus Display

By using the FDJ - P41 dedicated focus demand, you can change the size (3 options) and position of the AF in - focus frame displayed on the viewfinder*.

* To change the in-focus frame, it is necessary to interlock with the camera.



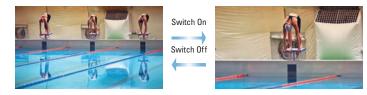
Digital Technology

Digital Servo System/Digital Drive Unit

Since the release of the DIGISUPER 70 in 1995, Canon has been a leader in digital broadcast zoom lens control. Canon's ENG/ EFP lenses, having the same digital technology, offer a wealth of features to make shooting more efficient. Canon's digital drive unit is installed in all ENG/EFP and Provideo broadcast lenses.

Shuttle Shot

At the touch of a button, this feature allows the operator to zoom back and forth instantly between any two positions at the maximum speed or at any speed memorized in the Speed Presets.

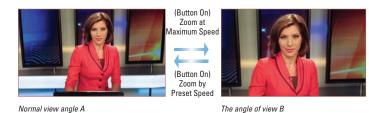


Normal view angle A

Frame Preset

Field of view of shuttle memory B

With the Frame Preset feature, a preset frame position can be saved and repeated multiple times.



Normal view angle A

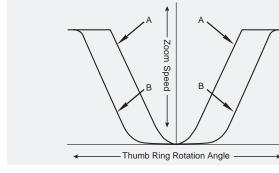
Speed Preset

Simply press a button to recall the preset zoom speed.



Zoom Servo Characteristics

Zoom Servo characteristics can be selected from two curvature options on the ZDJ-P01 zoom demand.



Zoom Servo Characteristics Example



Virtual Studio System

Canon has a series of HDxs and HDGC (IRSE/IASE version) lenses which are equipped with an enhanced digital drive unit. The digital drive unit's 16-bit encoder makes detection and output of positional information possible at a much higher resolution than an analog position sensor (equivalent to 10 bits). The 16-bit resolution rotary encoder built into the drive unit can be integrated into a virtual studio system. The encoders enable precise control as the zoom servo has a range of 0.5 second guick zooms to over a 5 minute super slow zoom. Repeatability in focus and iris control are also precise. Canon's technology has made the encoder device very small, allowing it to be installed in the existing drive unit without adding size or weight.

Further Improving Operational Efficiency

Type S Drive Unit

Canon has improved the operational efficiency of its lenses with the adoption of the Type S Drive Unit *1.

- Matches the aberration correction function on the camera without initialization at power-on
- Reduced power consumption by about 10% *² when using a battery as compared with previous versions
- · Real and virtual images can easily be calibrated with highprecision position detection
- Three 20 PIN connectors allow for simultaneous full servo and virtual system operation
- Easy operation with straightforward menu and display
- *1: Please refer to page 6, Understanding Canon Naming Conventions, Special Functions (2).
- *2: When zoom, focus & iris in operation

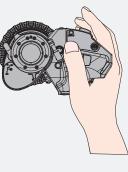
Zoom Track

The zoom control range can be set within a more limited range on both the telephoto and wide-angle sides of UHD-DIGISUPER and DIGISUPER Series lenses. With these lenses and the optional ZDJ-P01 zoom demand, the zoom range can be set to virtually any range smaller than the full focal range of the lens. If not used to limit the zoom range, the feature can be used to memorize an additional preset zoom position.

Ergonomic Design

Compact and Lightweight Drive Unit

Canon's HDxs. and HDGC (IRSE/ IASE models) Ergonomic Drive Units are tilted at an ideal angle of 12.5 degrees to realize good balance and comfort. An informational display has been added which now allows the user to customize the enhanced digital functions easily, precisely and fully. The enhanced digital functions are easily accessed and set using the Digital Function Selector, an X-Y axis switch located next to the display.



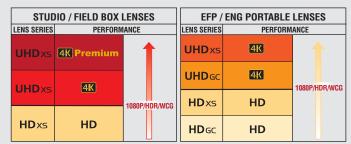
Ergonomic design allows the camera operator's left hand to easily access the focus ring for manual operation.

THE NEW ERA OF

NEW BCTV LENSES DESIGNED TO SUPPORT THE TRANSITION TO 4K UHD CONTENT CREATION

HDTV is now firmly established worldwide and HD production is expected to continue for many years to come. Ultra HDTV - generally referred to as UHD - has more recently emerged as the next generation of enhanced television service. In 2015 the International Telecommunications union published their ITU-R BT.2020 standard "Parameter Values for UHDTV Systems for Production and international Program Exchange" - that included both 4K UHD and 8K UHD production formats. This standard includes a Wide Color Gamut (WCG). In 2016 they published the ITU-R BT.2100 standard "Image Parameter Vales for High Dynamic Range Television for use in Production and International Program Exchange". This standard specifically applies the High Dynamic Range (HDR) to the HD, 4K UHD, and 8K UHD production formats (all exclusively progressive scan). In September 2017 the industry body - Ultra HD Forum - published their updated Guidelines on technologies and practices that support a commercially deployable Ultra HD realtime linear service with live and pre-recorded content in 2016, which is termed a "UHD Phase A" service. They include 4K UHD and 1080P HD (that includes both HDR and WCG).

These standards and guidelines have spurred increasing attention to the adoption of 4K UHD origination of sports, concerts, and major events. The anticipated protracted coexistence of HDTV and UHDTV has spawned a new generation of 2/3-inch multi format broadcast camera systems - from most of the major international camera manufacturers - that can selectively originate HD or UHD. To support this new era of mixed HD / UHD origination Canon has invested heavily into the development of an array of 2/3-inch 4K UHD broadcast lenses that encompass long zoom field lenses, a studio lens, and a broadening family of portable lenses.



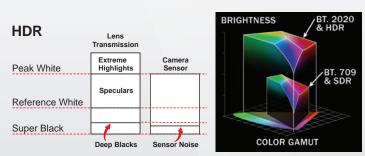
Simplistic mapping of the performance levels within the separate categories of box lenses and portable lenses

IMPLICATIONS OF HDR AND WCG

Delivering the requisite high image sharpness required for 4K UHD - while simultaneously lowering traditional optical aberrations (that can be more exposed by the high resolution image sensors) - called for multiple innovations in lens design and manufacturing. Lateral chromatic aberration causes color misregistration on high contrast edges within the imagery especially toward picture extremities. Longitudinal chromatic aberration causes color fringing on any speculars with this imagery. HDR and WCG further enhance the visibility of these

ENHANCED HDTV AND UHDTV

aberrations - because of the elevation in the color volume of the camera video - placing a greater onus on suppressing them to where they become subjectively invisible.

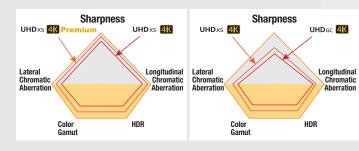


To support HDR the lens must accurately reproduce scene speculars and minimize optical artifacts stimulated by strong scene highlights.

UHD LENS PERFORMANCE HIERARCHY

In the case of the large box field and studio lenses and the portable EFP/ENG lenses Canon has created two performance levels in each. A special priority is assigned to elevating image sharpness (the essence of 4K UHD). An attendant high priority underlies design strategies that aggressively curtail the visibility of the two chromatic aberrations. Higher luminance levels and allied greater color volume associated with HDR / WCG combine to elevate the visibility of even small levels of these chromatic aberrations.

In the case of the Box lenses advanced design strategies allied with advanced optical glass materials are mobilized to maintain high image sharpness across the image plane, over the total focal ranges, and over a wide range of object distances. The 4K PREMIUM box lenses take these strategies to a particularly high level to further tighten those optical performance specifications.

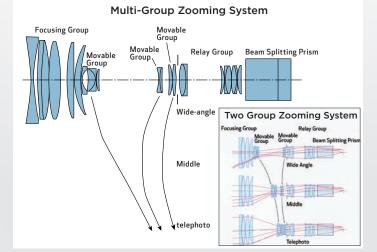


In the case of the portable lenses, similar priorities apply. The UHDxs manifests higher sharpness and lower chromatic aberrations when compared to the UHDgc - although on a different scale to the box lenses.

MULTI-GROUP ZOOMING SYSTEM

In seeking longer focal ranges for the box field and studio lenses and some of the longer focal length portable lenses, challenges in achieving the requisite zooming speeds while also achieving UHD performance were escalated. This called for a radical new design approach to the zooming optical subsystems. The central goals were to achieve greater control over multiple lens aberrations to help ensure full 4K performance while at the same time expediting

an increase in the speed of the zooming action (when the digital drive unit is set to maximum zoom speed).



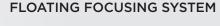
The traditional two group zooming system (right picture) is being

replaced with a three group zooming system (left picture). Three

movable groups move differentially with respect to each other

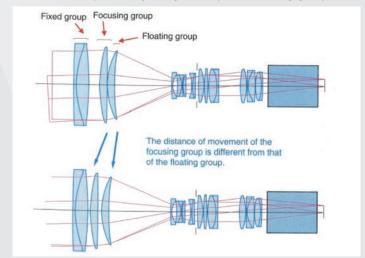
over the zoom range. Design optimization consisted in balancing

the weight of the three individual groups with their stroke distance



during zooming action.

The focus optical subsystem entails high responsibility for numerous optical performance parameters and operational considerations. The lens maximum relative aperture is largely determined by the diameter of this lens input optical grouping. In addition, focus breathing (undesirable alteration to the field angle as the focus control is actuated) characteristics and aberration behavior are associated with this optical subsystem. Overall lens size and weight are heavily proportional to decisions made in the overall design of this system. Central to the design is curtailing the size and weight of the moving lens system. To help ensure UHD optical performance focus fluctuations must be suppressed - and this was accomplished by using two separate moving groups.



New innovations in a floating focus group support 4K UHD performance while curtailing size and weight

Broadcast Studio/Field Lenses

4K UHD 2/	(3"							
	UHD-DIGISUPI	ER 122 UHD xs	UHD-DIGISUPE	R 111 UHD xs	UHD-DIGISUPI	R 86 UHDxs	UHD-DIGISUPE	R 27 UHD xs
Appearance	4K Premin	und looper of the stabilizer	4K Premiu	W UND DICOMPRETING	4K Premin	un ordere a for a	4K Premiu	LIND DISSUPERATION
Model Name	UJ122	×8.2B	UJ111	I×8.3B	UJ86>	9.3B	UJ27>	<6.5B
Zoom Ratio	12	'2x	11	1x	86	x	27	′χ
Focal Length	8.2 ~ 1000mm	16.4 ~ 2000mm (2.0x)	8.3 ~ 925mm	16.6 ~ 1850 mm (2.0x)	9.3 ~ 800mm	18.6 ~ 1600mm (2.0x)	6.5 ~ 180mm	13 ~ 360mm (2.0x)
Maximum Relative Aperature	F1.7 (8.2 ~ 340mm) F5.0 (1000mm)	F3.4 (16.4 ~ 680mm) F10.0 (2000mm)	F1.7 (8.3 ~ 340mm) F4.65 (925mm)	F3.4 (16.6 ~ 680mm) F9.3 (1850mm)	F1.7 (9.3 ~ 340mm) F4.0 (800mm)	F3.4 (18.6 ~ 680mm) F8.0 (1600mm)	F1.5 (6.5 ~ 123mm) F2.2 (180mm)	F3.0 (13 ~246mm) F4.4 (360mm)
Angular Field of View	60.7°×36.5° (8.2mm) 0.55°×0.31° (100mm)	32.6°×18.7° (16.4mm) 0.28°×0.15° (2000mm)	60.1°× 36.0° (8.3mm) 0.59°× 0.33° (925mm)	32.3°× 18.5° (16.6mm) 0.30°× 0.17° (1850mm)	54.6°×32.4° (9.3mm) 0.69°×0.39° (800mm)	28.9°×16.5° (18.6mm) 0.34°×0.19° (1600mm)	72.9°× 45.1° (6.5mm) 3.1°× 1.7° (180mm)	40.5°× 23.5° (13mm) 1.5°× 0.9° (360mm)
M.O.D.*	3.0	Dm	3.0)m	3.0	m	0.6	ìm
Object Dimensions	314.8×177.1cm (8.2mm)	157.4×88.6cm (16.4mm)	311.6×175.3cm (8.3mm) 2.9×1.6cm (925mm)	155.8×87.7cm (16.6mm) 1.5×0.8cm (1850mm)	271.9×152.9cm (9.3mm) 3.3×1.9cm (800mm)	136.0×76.5cm (18.6mm) 1.7×1.0cm (1600mm)	106.1×59.7cm (6.5mm) 3.8×2.1cm (180mm)	53.1×29.9cm (13mm) 1.9×1.1cm (360mm)
at M.O.D.*	2.7×1.5cm (1000mm)	1.4×0.8cm (2000mm)	2.9×1.00111 (92011111)	1.5×0.00111 (105011111)	(,	1	0.0.2.1011(1001111)	
at M.O.D.* Approx. Size (WxHxL)		1.4×0.8cm (2000mm) 0.6×255.5×637.4mm)	9.9x10.1x25.1 in. (25		9.9x10x25 in. (250.6		9.9x10.1x21.7 in. (25	
at M.O.D.*	9.9x10.1x25.1 in. (25		9.9x10.1x25.1 in. (25			6×255.5×637.4mm)		60.6×255.5×550mm)

4K UHD 2/3

	UHD-DIGISUP	ER 90 UHD xs	UHD-DIGISUP	R 66 UHD xs		
Appearance	4K	IMAGE STABILIZER	4K	IMAGE STABILIZER		
Model Name	UJ90	×9B	UJ66	6×9B		
Zoom Ratio	90	lx	66	бх		
Focal Length	9 ~ 810mm	18 ~ 1620mm (2.0x)	9 ~ 600mm	18 ~ 1200mm (2.0x)		
Maximum Relative Aperature	F2.4 (9 ~ 486mm) F4.0 (810mm)	F4.8 (18 ~ 972mm) F8.0 (1620mm)	F1.7 (9 ~ 340mm) F3.0 (600mm)	F3.4 (18 ~ 680mm) F6.0 (1200mm)		
Angular Field of View	56.1°×33.4° (9mm) 0.68°×0.38° (810mm)	29.9°×17.1° (18mm) 0.34°×0.19° (1620mm)	56.1°× 33.4° (9mm) 0.92°× 0.52° (600mm)	29.9°× 17.1° (18mm) 0.46°× 0.26° (1200mm)		
M.O.D.*	3.0	lm	3.0)m		
Object Dimensions at M.O.D.*	287.9×161.9cm (9mm) 3.3×1.9cm (810mm)	144.0×81.0cm (18mm) 1.7×1.0cm (1620mm)	287.9×161.9 cm (9mm) 4.4×2.5 cm (600mm)	144.0×81.0 cm (18mm) 2.2×1.3 cm (1200mm)		
Approx. Size (WxHxL)	9.9x10x24 in. (250	.6×255.5×610mm)	9.9x10.1x24.0 in. (25	50.6×255.5×610mm)		
Approx. Weight	51.2 lbs (2	23.2kg) 🔆	51.1 lbs (2	s (23.2kg) 🔆		

% Weight of lens body only (does not include servo module). * M.O.D. = Minimum Object Distance.

UHD-DIGISUPER 122: Highlights

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.

Elimination of Image "Lag" Following Operational Pan/Tilt Movements

The image stabilization system must be capable of distinguishing between unwanted physical perturbations to the lens-camera system and operational control of panning and tilting of the same. In the UHD-DIGISUPER 122 lens new correction strategies have been implementd. As a result, the vibration component of the sensor detection signal and the panning operation component can be sparated rapidly and wiht high accuracy.

Ideally Suited to 4K Shooting

Lens is ideally suited for 4K UHD shooting required when telecasting live sports events and other applications.

Air Sphere Coating (ASC) Technology

This is a Canon-developed technology that is an additional layer deposited on top of the normal multilayer coatings that are used to minimize those many internal reflections that conspire to lower light transmission efficiency and to contaminate deep black reproduction.

Bokeh Effect Controller

When shooting in macro, the focus position of the UHD-DIGISUPER 122 can be changed as the focal length is adjusted, when using the optional MCJ-S02 Macro Controller. This built-in feature can be utilized to support special techniques in which the focus position can be shifted within the same shot just by using the Macro Controller, allowing for subtle creative defocus effects. This can help provide a degree of creativity when shooting live events such as a concert.

Broadcast Studio/Field Lenses

HD 2/3"

Object Dimensions

Approx. Size (WxHxL)

Approx. Weight

at M.O.D.*

DIGISUPER 100AF H3x DIGISUPER 100



9.9x10x26 in. (250.6×255.5×661.5mm)

59.3 lbs (26.8ka) 🔆

2.8×1.6cm (930mm)

276.4×155.5cm (9.3mm) 138.2×77.8cm (18.6mm) 276.4×155.5cm (9.3mm) 13

1.4×0.8cm (1860mm)

2.8×1.6cm (930mm)

9.9x10x24 in. (250.6×

51.8 lbs (23.5

HD 2/3"								
	DIGISUPER 86A		DIGISUPER 80	H) Xs	DIGISUPER 76	H3 Xs		
Appearance	Canw	DIGGUER AND DE	Canan	IMAGE STABILIZER	Can	DIGSIPER 7		
Model Name	XJ86×9	.3B AF	XJ80>	<8.8B	XJ76	6×9B		
Zoom Ratio	86)×	80)×		6×		
Focal Length	9.3 ~ 800mm	18.6 ~ 1600mm (2.0x)	8.8 ~ 710mm	17.6 ~ 1420mm (2.0x)	9.0 ~ 690mm	18.0 ~ 1380mm (2.0x)		
Maximum Relative Aperature	F1.7 (9.3 ~ 340mm) F4.0 (800mm)	F3.4 (18.6 ~ 680mm) F8.0 (1600mm)	F1.7 (8.8 ~ 340mm) F3.55 (710mm)	F3.4 (17.6 ~ 680mm) F7.1 (1420mm)	F1.7 (9.0 ~ 340mm) F3.45 (690mm)	F3.4 (18.0 ~ 680mm) F6.9 (1380mm)		
Angular Field of View	54.6°×32.4° (9.3mm) 0.69°×0.39° (800mm)	28.9°×16.5° (18.6mm) 0.34°×0.19° (1600mm)	57.2°×34.1° (8.8mm) 0.77°×0.44° (710mm)	30.5°×17.4° (17.6mm) 0.39°×0.22° (1420mm)	56.1°×33.4° (9mm) 0.80°×0.45° (690mm)	29.9°×17.1° (18.0mm) 0.40°×0.22° (1380mm)		
M.O.D.*	3.0)m	3.0)m	3.	Om		
Object Dimensions at M.O.D.*	276.4×155.5cm (9.3mm) 3.2×1.8cm (800mm)	138.2×77.8cm (18.6mm) 1.6×0.9cm (1600mm)	290.0×163.1cm (8.8mm) 3.7×2.1cm (710mm)	145.0×81.6cm (17.6mm) 1.9×1.1cm (1420mm)	282.4×158.9cm (9mm) 141.2×79.5cm (18.0mm) 3.8×2.1cm (690mm) 1.9×1.1cm (1380mm)			
					9.9x10x24 in. (250.6×255.5×610mm)			
Approx. Size (WxHxL)	9.9x10x26 in. (250.	6×255.5×661.5mm)	9.9x10x24 in. (250	.6×255.5×610mm)	9.9x10x24 in. (250).6×255.5×610mm)		
	9.9x10x26 in. (250.	6×255.5×661.5mm) 26.8kg) ※	<u>9.9x10x24 in. (250</u> 51.1 lbs (2).6×255.5×610mm) 23.0kg) ※		

HD 2/3"

HU Z/3							
	DIGISUPER 27A	.F H3 %s	DIGISUPER 27	H3 Xs	DIGISUPER 22 >	ks HJ<i>Xs</i>	
Appearance	Cason	NO CONTRACTOR	Castr	DIGSUPER 27		NO SPREED IN ALL COM	
Model Name	XJ27×E	6.5B AF	XJ27>	6.5B	XJ22>	<7.3B	
Zoom Ratio	27		27	'×	22	<u>2</u> ×	
Focal Length	6.5 ~ 180mm	13 ~ 360mm (2.0x)	6.5 ~ 180mm	13 ~ 360mm (2.0x)	7.3 ~ 161mm	14.6 ~ 322mm (2.0x)	
Maximum Relative Aperature	F1.5 (6.5 ~ 123mm) F2.2 (180mm)	F3.0 (13 ~ 246mm) F4.4 (360mm)	F1.5 (6.5 ~ 123mm) F2.2 (180mm)	F3.0 (13 ~ 246mm) F4.4 (360mm)	F1.8 (7.3 ~ 111.5mm) F2.6 (161mm)	F3.6 (14.6 ~ 223mm) F5.2 (322mm)	
Angular Field of View	72.9°×45.1° (6.5mm) 3.1°×1.7° (180mm)	40.5°×23.5° (13mm) 1.5°×0.9° (360mm)	72.9°×45.1° (6.5mm) 3.1°×1.7° (180mm)	40.5°×23.5° (13mm) 1.5°×0.9° (360mm)	66.7°×40.6° (7.3mm) 3.4°×1.9° (161mm)	36.4°×21.0° (14.6mm) 1.7°×1.0° (322mm)	
M.O.D.*	0.6	δm	0.6	ôm	3.0	3m	
Object Dimensions at M.O.D.*	106.1×59.7cm (6.5mm) 3.8×2.1cm (180mm)	53.1×29.9cm (13mm) 1.9×1.1cm (360mm)	106.1×59.7cm (6.5mm) 3.8×2.1cm (180mm)	53.1×29.9cm (13mm) 1.9×1.1cm (360mm)	118.1×66.4cm (7.3mm) 5.2×2.9cm (161mm)	59.1×33.2cm (14.6mm) 2.6×1.5cm (322mm)	
Approx. Size (WxHxL)	9.9x10.1x22.3 in. (2	50.6×255.5×567mm)	9.9x10.1x21.7 in. (25	0.6×255.5×550mm)	6.5x6.9x13.2 in.(165×175×336mm)		
Approx. Weight	51.4 lbs (2	23.3kg) ※	48.3 lbs (21.9kg) 🔆	13.42 lbs (6.1kg)		
× Wainkt of land hades a		1.1.5					

% Weight of lens body only (does not include servo module) * M.O.D. = Minimum Object Distance.



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 highaccuracy position information of the zoom, focus and iris to be read out.

BROADCAST Studio/Field Lenses

0 HJ XS	DIGISUPER 95	TELE HJXs	DIGISUPER 9)5 H] // 5
Diosurea 10		Disistent Strift	Canon	DIGRUPERES
IMAGE STABILIZER		IMAGE STABILIZER		IMAGE STABILIZER
.3B	XJ95×	:12.4B	XJ95>	<8.6B
	95	ōx	95	ō×
18.6 ~ 1860mm (2.0x)	12.4 ~ 1178mm	24.8 ~ 2356mm (2.0x)	8.6 ~ 820mm	17.2 ~ 1640mm (2.0x)
F3.4 (18.6 ~ 592mm) F9.4 (1860mm)	F2.5 (12.4 ~ 491mm) F6.0 (1178mm)	F5.0 (24.8 ~ 982mm) F12.0 (2356mm)	F1.7 (8.6 ~ 340mm) F4.1 (820mm)	F3.4 (17.2 ~ 680mm) F8.2 (1640mm)
28.9°×16.5° (18.6mm)).30°×0.17° (1860mm)	42.3°×24.6° (12.4mm) 0.47°×0.26° (1178mm)	21.9°×12.4° (24.8mm) 0.23°×0.13° (2356mm)	58.3°×34.9° (8.6mm) 0.67°×0.38° (820mm)	31.2°×17.8° (17.2mm) 0.34°×0.19° (1640mm)
	3.0)m	3.0)m
38.2×77.8cm (18.6mm) 1.4×0.8cm (1860mm)	209.5×117.8cm (12.4mm) 2.3×1.3cm (1178mm)	104.8×58.9cm (24.8mm) 1.2×0.7cm (2356mm)	298.1×167.7cm (8.6mm) 3.2×1.8cm (820mm)	149.1×83.9cm (17.2mm) 1.6×0.9cm (1640mm)
<255.5×610mm)	9.9x10x24 in. (250	.6×255.5×610mm)	9.9x10x24 in. (250	.6×255.5×610mm)
5kg) 💥	51.1 lbs (2	23.2kg) 🔆	51.1 lbs (2	23.2kg) 🔆

Control Accessories for Studio/Field Lenses

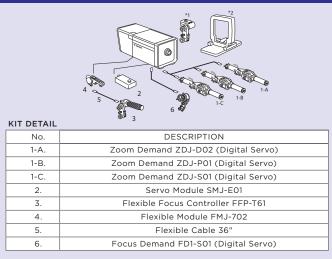
DIGITAL UHD-DIGISUPER/DIGISUPER Series

For:

UHD-DIGISUPER 122 / UHD-DIGISUPER 111 / UHD-DIGISUPER 90 / UHD-DIGISUPER 86 / UHD-DIGISUPER 66 / UHD-DIGISUPER 27 / DIGISUPER 100 / DIGISUPER 95 TELE / DIGISUPER 95 / DIGISUPER 80 / DIGISUPER 76 / **DIGISUPER 27**

FULL SERVO SYSTEM							
KIT DETAIL							
No.	DESCRIPTION						
1-A.	Zoom Demand ZDJ-D02 (Digital Servo)						
1-B.	Zoom Demand ZDJ-P01 (Digital Servo)						
1-C.	Zoom Demand ZDJ-S01 (Digital Servo)						
2-A.	Focus Demand FDJ-D02 (Digital Servo)						
2-B.	Focus Demand FDJ-P01 (Digital Servo)						
2-C.	Focus Demand FDJ-S01 (Digital Servo)						
3.	Servo Module SMJ-E01 (2pcs)						

SEMI-SERVO SYSTEM



For: DIGISUPER 100AF / DIGISUPER 86AF / DIGISUPER 27AF	For: All UHD-DIGISUPER / DIGISUPER Lenses	For: UHD-DIGISUPER 122/ UHD-DIGISUPER 111
FULL SERVO SYSTEM	FULL MANUAL SYSTEM	BOKEH EFFECT CONTROLLER
		Lens body
KIT DETAIL No. DESCRIPTION	KIT DETAIL No. DESCRIPTION	Macro controller
1-A. Zoom Demand ZDJ-D02 (Digital Servo)	1. Flexible Zoom Controller FZP-T61	(standard: MCJ-S02)
1-B. Zoom Demand ZDJ-P01 (Digital Servo)	2. Flexible Focus Controller FEP-T61	
1-C. Zoom Demand ZD1-S01 (Digital Servo)	3. Flexible Module FMJ-702 (2pcs)	CR-30 []
2-A. Focus Demand FDJ-P41 (Digital Servo)*3	4. Flexible Cable 36" (2pcs)	
2-B. Focus Demand FD1-S01 (Digital Servo)	· · · ·	
3. Servo Module SMJ-E01 (2pcs)		Lather and a start of the start
		9

*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 DIGISUPER 100AF, DIGISUPER 86AF, and DIGISUPER 27AF, FDJ-P41 is necessary to control the AF function. FDJ-P31 is also available for right hand users.

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

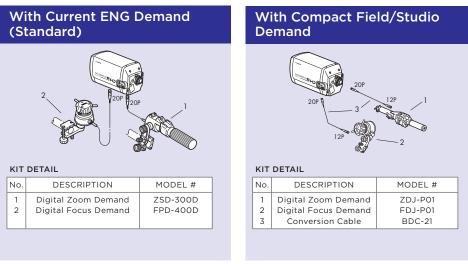
• For detail information, please contact a Canon Sales Office.

Control Accessories for Studio/Field Lenses

For:

DIGISUPER 22 xs

The DIGISUPER 22 xs can be used with our current optional Studio/Field lens controllers as well as those for our ENG lenses. At the same time, the lens also offers compatibility with our Compact Studio/Field demands by use of a conversion cable.

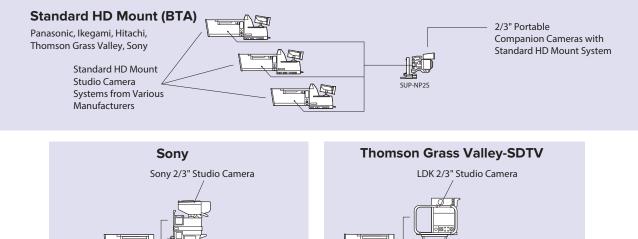


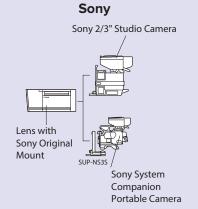
The SUP-400 SUPPORTER is included as a standard component with the lens.

Studio/Field Lenses Mount Compatibility

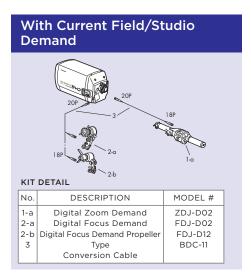
To Use Camera Manufacturer's Original Mount Lens

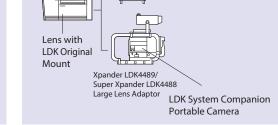
Studio/Field lenses are made with mounts corresponding to each manufacturer's Studio/Field cameras. To make the lenses compatible with Portable Studio/Field Companion cameras, the correct lens Support System must be chosen from the following:





-	-
Demand	ZDJ-P01
Demand	FDJ-P01
Cable	BDC-21





Please confirm with camera manufacturer regarding the proper supporter to use. Some manufacturers vary by camera model.

Broadcast ENG/EFP Lenses

4K UHD 2/3"					
Appearance	CJ45e×13.6B	UHDxs stabilizer 4K	CJ45e×9.7B	UHDxs IMAGE STADILIZER 4K	
Model Name	CJ45ex13	3.6B IASE-V H	CJ45ex9.7B IASE-V H		
Zoom Ratio		45×	45×		
Focal Length	13.6 ~ 612mm	27.2 ~ 1224mm (2.0x)	9.7 ~ 437mm	19.4 ~ 874mm (2.0x)	
Maximum Relative Aperature	F1:2.8 (13.6 ~ 312mm) F1:5.5 (612mm)	F1:5.6 (27.2 ~ 624mm) F1:11.0 (1224mm)	F1:2.0 (9.7 ~ 224mm) F1:3.9 (437mm)	F1:4.0 (19.4 ~ 448mm) F1:7.8 (874mm)	
Angular Field of View	38.9°×22.5° (13.6mm) 0.90°×0.51° (612mm)	20.0°×11.3° (27.2mm) 0.45°×0.25° (1224mm)	52.7°×31.1° (9.7mm) 1.26°×0.71° (437mm)	27.8°×15.8° (19.4mm) 0.63°×0.35° (874mm)	
M.O.D.* from Lens Front		2.8m	2.1	8m	
Object Dimensions at M.O.D.*	182.9×102.9cm (13.6mm) 91.5×51.5cm (27.2mm) 4.2×2.4cm (612mm) 2.1×1.2cm (1224mm)				
Filter Thread Size (Hood/Lens Barrel)	- / 122	7mm P0.75	— / 127n	nm P0.75	
Approx. Size (WxHxL)	6.8×5.8×14.0 in. (1	73.2×147.5×355.0mm)	6.8×5.8×13.3 in. (17	3.2×147.5×337.0mm)	
Approx. Weight	12.4	b (5.64kg)	12.3 lbs	(5.60kg)	

4K UHD 2/3"

Appearance	CJ25e×7.6B	UHDxs 4K	CJ20e×7.8B	UHDxs 4K	CJ12e×4.3B	UHDxs (4K)
Model Name	CJ25ex7.6B I	RSE S/IASE S	CJ20e×7.8B IASE S		CJ12e×4.3B IRSE S/IASE S	
Zoom Ratio	25×		20×		12×	
Focal Length	7.6 ~ 190mm	15.2 ~ 380mm (2.0x)	7.8 ~ 156mm	15.6 ~ 312mm (2.0x)	4.3 ~ 52mm	8.6 ~ 104mm (2.0x)
Maximum Relative Aperature	F1.8 (7.6 ~ 1108mm) F2.9 (190mm)	F3.6 (15.2 ~ 236mm) F5.8 (380mm)	F1.8 (7.8 ~ 108mm) F2.6 (156mm)	F3.6 (15.6 ~ 216mm) F5.2 (312mm)	F1.8 (4.3 ~ 40mm) F2.4 (52mm)	F3.6 (8.6 ~ 80mm) (F4.8 (104mm)
Angular Field of View	64.6°×39.1° (7.6mm) 2.89°×1.63° (190mm)	35.1°×20.1° (15.26mm) 1.458°×0.81° (380mm)	63.2°×38.2° (7.8mm) 3.5°×2.0° (156mm)	34.2°×19.6° (15.6mm) 1.8°×1.0° (312mm)	96.3°× 64.2° (4.3mm) 10.5°× 5.9° (52mm)	58.3°×34.9° (8.6mm) 5.3°×3.0° (104mm)
M.O.D.* from Lens Front	0.1	3m	0.8m		0.3m	
Object Dimensions at M.O.D.*	93.9×52.8cm (7.6mm) 3.9×2.2cm (190mm)	48.1×27.1cm (15.2mm) 2.0×1.1cm (380mm)	91.7×51.6cm (7.8mm) 4.8×2.7cm (156mm)	45.9×25.8cm (15.6mm) 2.4×1.4cm (312mm)	76.4×43.0cm (4.3mm) 6.0×3.4cm (52mm)	38.2×21.5cm (8.6mm) 3.0×1.7cm (104mm)
Filter Thread Size (Hood/Lens Barrel)	105mm P1	/ 94mm P1	105mm P1 / 94mm P1		127mm P0.75 / -	
Approx. Size (WxHxL)	6.8x4.5x8.8 in. (169	.6×114.4×223.3mm)	6.7x4.5x9.1 in. (169.9×114.4×230.0mm)		6.4x4.3x9.8 in. (163.5×108.0×247.8mm)	
Approx. Weight	4.4 lb (1.99kg)	4.81	lb (2.18kg)	4.63 lbs (2.	1kg (IRSE S))

4K UHD 2/3"						
	CJ24e×7.5B	UHDGC	CJ18e×7.6B	UHDGC	CJ14e×4.3B	UHDGC
Appearance		4 K		4 K		4 K
Model Name	CJ24ex7.5B IF	RSE S/IASE S	CJ18ex7.6B IRSE S/IASE S		CJ14ex4.3B IRSE S/IASE S	
Zoom Ratio	24	x	18×		14×	
Focal Length	7.5 ~ 180mm	15.0 ~ 360mm (2.0x)	7.6 ~ 137 mm	15.2 ~ 274 mm (2.0x)	4.3 ~ 60mm	8.6 ~ 120 mm (2.0x)
Maximum Relative Aperature	F1:1.8 (7.5 ~ 120mm) F1:2.7 (180mm)	F1:3.6 (15 ~ 240mm) F1:5.4 (360mm)	F1:1.8 (7.6 ~ 103mm) F1:2.4 (137mm)	F 1:3.6 (15.2 ~ 206mm) F1:4.8 (274mm)	F1:1.8 (4.3 ~ 40 mm) F1:2.7 (60mm)	F1:3.6 (8.6 ~ 80mm) F1:5.4 (120mm)
Angular Field of View	65.2°×39.6° (7.5mm) 3.1°×1.7° (180mm)	35.5°×20.4° (15mm) 1.5°×0.9° (360mm)	64.6°×39.1° (7.6mm) 4.0°×2.3° (137mm)	35.1°×20.1° (15.2mm) 2.0°×1.1° (274mm)	96.3°×64.2° (4.3mm) 9.1°×5.2° (60mm)	58.3°×34.9° (8.6mm) 4.6°×2.6° (120mm)
M.O.D.* from Lens Front	0.80)m	0.56m		0.30m	
Object Dimensions at M.O.D.*	96.0×54.0 cm (7.5mm) 4.1×2.3 cm (180mm)	48.0×27.0 cm (15mm) 2.1×1.2 cm (360mm)	65.5×36.8 cm (7.6mm) 3.8×2.1 cm (137mm)	32.8×18.4 cm (15.2mm) 1.9×1.1 cm (274mm)	76.4×43.0 cm (4.3mm) 5.2×2.9 cm (60mm)	38.2×21.5 cm (8.6mm) 2.6×1.5 cm (120mm)
Filter Thread Size (Hood/Lens Barrel)	105mm P1 / 94mm P1		— / 82mm P0.75		127mm P0.75 / -	
Approx. Size (WxHxL)	6.5×4.3×8.7 in. (164.6×109.1×221.4mm)		6.3×4.1×8.1 in. (160.5×105.0×206.2mm)		6.4×4.3×9.8 in. (163.5×108.0×247.8mm)	
Approx. Weight	4.0 lb (1.82k	g, (IRSE S))	3.3 lb (1.65	kg, (IRSE S))	4.7 lb (2.11kg, (IRSE S))	

* M.O.D. = Minimum Object Distance.

Broadcast ENG/EFP Lenses

4K UHD 2/3"	CJ18e×28B	UHDGC	CJ15e×8.5B	UHDGC	
Appearance	NEW	<u>4K</u>	NEW	IMAGE STABILIZE	
Model Name	CJ18e	×28B IASE S	CJ15e×8.5B KRSE-V		
Zoom Ratio		18×	15×		
Focal Length	28 ~ 500mm	56 ~ 1000mm (2.0x)	8.5 ~ 128mm		
Maximum Relative Aperature	F2.8 (28 ~ 286mm) F4.9 (500mm)	F5.6 (56 ~ 572mm) F9.8 (1000mm)	F2.5 (8.5 ~ 68mm) F4.7 (128mm)		
Angular Field of View	19.5°×11.0° (28mm) 1.10°×0.62° (500mm)	9.8°×5.5° (56mm) 0.55°×0.31° (1000mm)	58.9°× 35.2° (8.5mm) 4.3°× 2.4° (128mm)		
M.O.D.* from Lens Front		2.2m	0.8m		
Object Dimensions at M.O.D.*	71.0×39.9cm (28mm) 4.1×2.3cm (500mm)	35.5×20.0cm (56mm) 2.1×1.2cm (1000mm)	95.8×53.9cm (8.5mm) 6.4×3.6cm (128mm)		
Filter Thread Size (Hood/Lens Barrel)	127m	m P0.75 / -	- / 82mm P0.75		
Approx. Size (WxHxL)	7.0x4.8x10.6 in. (177.8×122.5×268.3mm)	6.7x4.6x9.4 in. (170.2×116.2×239.5mm)		
Approx. Weight	6.08 lb (2	.76kg (IASE S))	4.48 lbs (2.03kg (KRSE-V S))		

HD 2/3"						
	HJ40e×14B	HJ Xs	HJ40e×10B	HJ Xs	HJ21e×7.5B	HJ Xs
Appearance		IMAGE STABILIZER		IMAGE STABILIZER		
Model Name	HJ40ex14E	B IASE-V H	HJ40ex10B IASE-V H		HJ21e×7.5B IASE S	
Zoom Ratio	40)×	40×		21×	
Focal Length	14 ~ 560mm	28 ~ 1120mm (2.0x)	10 ~ 400mm	20 ~ 800mm (2.0x)	7.5 ~ 158mm	15 ~ 316mm (2.0x)
Maximum Relative Aperature	F2.8 (14 ~ 307mm) F5.1 (560mm)	F5.6 (28 ~ 614mm) F10.2 (1120mm)	F2.0 (10 ~ 220mm) F3.65 (400mm)	F4.0 (20 ~ 440mm) F7.3 (800mm)	F1.9 (7.5 ~ 116mm) F2.6 (158mm)	F3.8 (15 ~ 232mm) F5.2 (316mm)
Angular Field of View	37.8°× 21.8° (14mm) 1.0°× 0.6° (560mm)	19.4°×11.0° (28mm) 0.5°×0.3° (1120mm)	51.3°×30.2° (10mm) 1.4°×0.8° (400mm)	27.0°×15.4° (20mm) 0.7°×0.4° (800mm)	65.2°×39.6° (7.5mm) 3.5°×2.0° (158mm)	35.5°×20.4° (15mm) 1.7°×1.0° (316mm)
M.O.D.* from Lens Front	2.8	3m	2.8m		0.85m	
Object Dimensions at M.O.D.*	177.1×99.5cm (14mm) 4.5×2.5cm (560mm)	88.6×49.8cm (28mm) 2.3×1.3cm (1120mm)	248.4×139.7cm (10mm) 6.2×3.5cm (400mm)	124.2×69.9cm (20mm) 3.1×1.8cm (800mm)	120.4×67.7cm (7.5mm) 5.6×3.2cm (158mm)	60.2×33.9cm (15mm) 2.8×1.6cm (316mm)
Filter Thread Size (Hood/Lens Barrel)	— / 127mm P0.75		— / 127mm P0.75		127mm P0.75 / —	
Approx. Size (WxHxL)	6.6x5.2x14 in. (167	.5x133.0x355.5mm)	6.6x5.2x13.2 in. (167.5x133.0x355.4mm)		6.9×4.8×10.2 in. (175.2×122×260.1mm)	
Approx. Weight	12.2 lbs	(5.55 kg)	12.1 lbs	s (5.5 kg)	5.94 lbs	(2.69kg)

HD 2/3"

	HJ17e×6.2B	2% CH		
Appearance				
Model Name	HJ17e×6.2B IRSE S/IASE S			
Zoom Ratio	17×			
Focal Length	6.2 ~ 106mm	12.4 ~ 212mm (2.0x)		
Maximum Relative Aperature	F1.8 (6.2 ~ 65.8mm) F2.9 (106mm)	F3.6 (12.4 ~ 131.6mm) F5.8 (212mm)		
Angular Field of View	75.5°×47.1° (6.2mm) 5.2°×2.9° (106mm)	42.3°×24.6° (12.4mm) 2.6°×1.5° (212mm)		
M.O.D.* from Lens Front	0.4	1m		
Object Dimensions at M.O.D.*	73.3×41.2cm (6.2mm) 4.1×2.3cm (106mm)	36.7×20.6cm (12.4mm) 2.1×1.2cm (212mm)		
Filter Thread Size (Hood/Lens Barrel)	105mm	P1 / —		
Approx. Size (WxHxL)	6.5x4.4x9.5 in. (165	.0×111.8×240.5mm)		
Approx. Weight	4.34 lbs (1.97kg (IRSE S))			
1				

* M.O.D. = Minimum Object Distance.

BROADCAST ENG/EFP Lenses

DISCONTINUED LENSES

Please note as of April 3, 2019 the following ENG/EFP HD 2/3" lenses have been discontinued: HJ18ex28B, HJ24ex7.5B, HJ14ex4.3 and HJ15ex8.5B.

Please consult with a Canon Account Manager regarding availability on the HJ18ex7.6B.

Broadcast ENG/EFP Lenses								
HD 2/3"							HD 1/3"	
	KJ22ex7.6E	HD GC	KJ17ex7.7E	HD GC	KJ10ex4.5B	HD GC	KT17ex4.3B	HD GC
Appearance								
Model Name	KJ22ex7.6B I	RSE S/IASE S	KJ17ex7.7B IRSE S/IASE S		KJ10ex4.5B IRSE S/IASE S		KT17ex4.3B IRSE S	
Zoom Ratio	2	2x	17x		10	lx	17x	
Focal Length	7.6~168mm	15.2~336mm (2.0x)	7.7~131mm	15.4~262mm (2.0x)	4.5~45mm	9~90mm (2.0x)	4.3~73mm	8.6~146mm (2.0x)
Maximum Relative Aperature	1:1.8 at 7.6~116.3mm 1:2.6 at 168mm	1:3.6 at 15.2~232.6mm 1:5.2 at 336mm (2.0x)	1:1.8 at 7.7~102.5mm 1:2.3 at 131mm	1:3.6 at 15.4~205mm 1:4.6 at 262mm	1:1.8 at 4.5~34.5mm 1:2.35 at 45mm	1:3.6 at 9~68.9mm 1:4.7 at 90mm	1:1.4 at 4.3~73mm	1:2.8 at 8.6~146mm
Angular Field of View	64.6°x39.1° at 7.6mm 3.3°x1.8° at 168mm	35.1°x20.1° at 15.2mm 1.6°x0.9° at 336mm	63.9°x38.6° at 7.7mm 4.2°x2.36° at 131mm	34.6°x19.9° at 15.4mm 2.1°x1.18° at 262mm	93.7°x61.9° at 4.5mm 12.2°x6.9° at 45mm	56.1°x33.4° at 9mm 6.1°x3.4° at 90mm	62.6°x37.7° at 4.3mm 4.1°x2.3° at 73mm	33.8°x19.4° at 8.6mm 2.1°x1.2° at 146mm
M.O.D.* from Lens Front	0.8	3m	0.	6m	0.3	m	0.6	Sm
Object Dimensions at M.O.D.*	95.0x53.4cm at 7.6mm 4.4x2.5cm at 168mm	47.5x26.7cm at 15.2mm 2.2x1.3cm at 336mm	68.5x38.5cm at 7.7mm 34.3x19.3cm at 15.4mm 4.2x2.4cm at 131mm 2.1x1.2cm at 262mm		74.1x41.7cm at 4.5mm 37.0x20.8cm at 9mm 6.4x3.6cm at 45mm 3.2x1.8cm at 90mm		66.9x37.6cm at 4.3mm 4.1x2.3cm at 73mm 2.1x1.2cm at 146mm	
Filter Thread Size (Hood/Lens Barrel)	105mm P1 / 94mm P1		— / 82mm P0.75		127mm P0.75 / —		— / 82mm P0.75	
Approx. Size (WxHxL)	6.5x4.4x8.6 in. (164	.7x111.8x218.6mm)	6.3x4.2x7.8 in. (159	9.3x106.6x197.8mm)	6.6x4.4x9.4 in. (168.2x111.8x237.7mm)		6.3x4.2x7.8 in. (159.3x106.6x197.3mm	
Approx. Weight (IRSE/IASE)	4.0 lbs (1.82kg)/	4.19 lbs (1.90kg)	3.26 lbs (1.48kg)	/3.44 lbs (1.56kg)	4.04 lbs (1.83kg)/	4.22 lbs (1.91kg)	3.26 lbs (1.48kg)	

Pro-Video Lenses

HD 2/3"				
Appearance	KJ20x8.2B	ÐGC	KJ20x8.2B	KJ13x6B
Model Name	KJ20x8.2B IRSD		KJ20x8.2B KRSD	KJ13x6B KRSD
Zoom Ratio	20	Ĵх	20x	13x
Focal Length	8.2~164mm	16.4~328mm (2.0x)	8.2~164mm	6~78mm
Maximum Relative Aperature	1:1.9 at 8.2~115.4mm 1:2.7 at 164mm	1:3.8 at 16.4~230.8mm) 1:5.4 at 328mm	1:1.9 at 8.2~115.4mm 1:2.7 at 164mm	1:2.0 at 6~58mm 1:2.7 at 78mm
Angular Field of View	60.7°x36.5° at 8.2mm 3.4°x1.9° at 164mm	32.6°x18.7° at 16.4mm 1.7°x0.9° at 328mm	60.7°x36.5° at 8.2mm 3.4°x1.9° at 164mm	77.3°x48.5° at 6mm 7.0°x4.0° at 78mm
M.O.D.* from Lens Front	0.9	Эm	0.9m	0.4m
Object Dimensions at M.O.D.*	98.2x55.2cm at 8.2mm 5.0x2.8cm at 164mm	49.1x27.6cm at 16.4mm 2.5x1.4cm at 328mm	98.2x55.2cm at 8.2mm 5.0x2.8cm at 164mm	74.3x41.8cm at 6mm 5.4x3.0cm at 78mm
Filter Thread Size (Hood/Lens Barrel)	— / 82m	nm P0.75	— / 82mm P0.75	105mm P1 / —
Approx. Size (WxHxL)	6.4x4.1x8.2 in. (163.3x104.1x208.0mm)		6.4x4x7.2 in. (163.3x101.6x181.8mm)	6.5x4.1x8.3 in. (165.4x104.1x211.7mm)
Approx. Weight	3.13 lbs	(1.42kg)	2.76 lbs (1.25kg)	3.51 lbs (1.59kg)

HD 1/2"

HD 1/2"	
Appearance	KH20x6.4
Model Name	KH20x6.4 KRSD SY14
Zoom Ratio	20x
Focal Length	6.4~128mm
Maximum Relative Aperature	1:1.4 at 6.4~89.6mm 1:2.0 at 128mm
Angular Field of View	57.1°x34.1° at 6.4mm 3.1°x1.8° at 128mm
M.O.D.* from Lens Front	0.9m
Object Dimensions at M.O.D.*	89.8x50.5cm at 6.4mm 4.6x2.6cm at 128mm
Filter Thread Size (Hood/Lens Barrel)	— / 82mm P0.75
Approx. Size (WxHxL)	6.4x4x7.2 in. (163.3x101.6x182.5mm)
Approx. Weight	2.8 lbs (1.27kg)

* M.O.D. = Minimum Object Distance.

20 | Broadcast ENG/EFP, Pro-Video Lenses

Remote Control Lenses					
HD 2/3"					
HDTV Appearance	KJ22ex7.6B	KJ17ex7.7B			
Model Name	KJ22ex7.6B ITS-ME/RE	KJ17ex7.7B ITS-ME/RE			
Zoom Ratio	22x	17x			
Image Size	2/3"	2/3"			
Built-in Extender	2.0x	2.0x			
Range of Focal Length	7.6~168mm	7.7~131mm			
(with Extender)	15.2~336mm (2.0x)	15.4~262mm (2.0x)			

	HD 2/3"	HD 1/2"
	KJ20x8.2B	KH20x6.4
HDTV Appearance		
Model Name	KJ20x8.2B KTS	KH20x6.4 KTS*2
Zoom Ratio	20x	20x
Image Size	2/3"	1/2"
Built-in Extender	N/A	N/A
Range of Focal Length	8.2~164mm	6.4~128mm

*2: Specifically designed for Sony HDC-X300/X310.

DISCONTINUED LENSES

Please note as of April 3, 2019 the following Lenses have been discontinued: HJ18ex28B, HJ15ex8.5B, HJ24ex7.5B, HJ18ex7.6B, HJ14ex4.3B, KT20x5B, and KH13x4.5.

Remote Control Lenses

Broadcast ENG/EFP, Pro Video Lens Optical Accessories

Adaptor Type Converters/Attachments

CATEGORY	MODEL	CJ45e×13.6B CJ45e×9.7B	CJ12e×4.3B CJ14e×4.3B CJ18e×8.5BB CJ18e×28B KJ10e×4.5B HJ40e×14B HJ40e×10B HJ21e×7.5B	HJ17e×6.2B KJ13×6B	CJ15e×8.5B	CJ25ex7.6B CJ20e×7.8B CJ24e×7.5B KJ22e×7.6B	CJ18e×7.6B KJ20×8.2B KT17e×4.3B KJ17e×7.7B KH20×6.4
TELESIDE CONVERTER *1	T15HG					•	•
WIDE CONVERTER *1	W80HG					•	•
WIDE ATTACHMENT *1	WA75HG					•	•
FISHEYE ATTACHMENT *1	FEA60HG					•	•
ADAPTER RING	ACC-85 III						•
ADAFTEN NING	ACC-98 II					•	
	82CL-UP800H				•*2		•*2
CLOSE-UP LENS	82CL-UP1300H				•*2		•*2
	105CL-UP800HG					•	
	UV / 82				•		•
	UV / 94					•	
UV FILTER	UV / 105			•		•	
	UV / 127		•				
	UV / 127-H	•	•				
CLEAR FIILTER	CL/127MM		•				
	CL/127MM-H	•	•				
	PL/82				•		•
POLARIZATION FILTER	PL/105			•		•	
	PL/127		•				

*1: An adapter ring is necessary to attach it to the lens. *2: Close-up lens supported for SD.

• The number of each filter type name. indicates the screw diameter. Screw pitch: screw diameter 82 mm = 0.75 mm, thread diameter 127 mm = 0.75 mm, thread diameter other than the left = 1.00 mm

The following items have been discontinued: W80H Wide Converter.

The following lenses have been discontinued: HJ18ex28B, HJ24ex7.5B, HJ18ex7.6B, HJ14ex4.3B, KH13x4.5B

Mount Converters for Different Image Format Size Cameras

Canon offers a variety of Mount Converters to be used between a lens and a camera of different image format sizes. Each converter will extend the effective Angular Field of View of the associated lens according to the Shift Ratio listed below.

	Converter	Lens*4	Camera	Shift Ratio to Telephoto Side	Electronic Conversion	
-20	LO-32BMT	2/3" B4 Mount	1/2" Sony*5	Approx. 1.4x	N/A	
	LCV-40B	2/3" B4 Mount	1/2 Standard Mount ^{*6}	Approx. 1.4x	N/A	
	LCV-42T	2/3" B4 Mount	1/3" Standard Mount	Approx. 1.8x	N/A	
	LCV-41E	2/3" B4 Mount	Sony PMW-EX3	Approx. 1.4x	Lens Cable (12 pin) EX3 Hot Shoe (14 pin)	

*4: The converters are to be used with lenses weighing less than 4.4 lbs (2.0kg). *5: Sony's Hot Shoe mount camera, excluding PMW-EX3.

*6: 1/2" Camera of standard type mount (Panasonic, JVC, Grass Valley).

Broadcast ENG/EFP, Pro Video Lens Optical Accessories

Converter/Attachments

TELE-SIDE CONVERTER

- The use of the telephoto converter would shift the focal length of a lens with a factor of 1.5x.
- F No. of the original lens is not affected.
- Only the telephoto side of the lens can be used. The picture corners are eclipsed at wide angle
- The minimum object distance becomes 2.25x that of the original lens.

CHANGE IN FOCAL LENGTH

Model	M.O.D.	Eclipse Point	
CJ24ex7.5B	1.8m	f:100mm	
KJ17ex7.7B	1.35m	f:60mm	

FISH-EYE ATTACHMENT



- The zoom lens becomes a fish-eye fixed focal length lens (distorted image) with the fish-eye attachment.
- The use of a fish-eye attachment would shift the focal length of a lens with a factor of 0.6x.
- Focus is adjusted by use of the macro lever.

CHANGE IN FOCAL LENGTH

Model	Master Lens	With Fish-Eye Attachment		
CJ24ex7.5B	7.5-180mm	4.5mm		
KJ17ex7.7B	7.7-131mm	4.6mm		

POLARIZED LIGHT FILTER



- Used to intercept light reflected from the surface of water or glass.
- The polarizer is threaded on to a lens hood.

Extenders



- The X2.0-B4 extender mounts in between a camera and lens to magnify an image
- The extender doubles the focal length of the master lens and doubles the F-number.

Model	
X2.0-B4	

WIDE CONVERTER



- The wide converter W80/W80Y-85 would shift the focal length of a lens with a factor of 0.8x.
- F No. of the original lens is not affected.
- The minimum object distance becomes 0.64x with the W80/W80Y-85.

CHANGE IN FOCAL LENGTH

Model	Master Lens	With Wide Converter		
CJ24ex7.5B	7.5-180mm	6.0-144mm		
KJ17ex7.7B	7.7-131mm	6.2-104.8mm		

WIDE ATTACHMENT



- The zoom lens becomes a wider fixed focal length lens with the wide attachment.
- The use of the wide attachment would shift the focal length of a lens with a factor of 0.75x.
- Focus is adjusted by use of the macro lever.



CHANGE IN FOCAL LENGTH

Model	Master Lens	With Wide Attachment		
CJ24ex7.5B	7.5-180mm	5.6mm		
KJ17ex7.7B	7.7-131mm	5.8mm		

Applicable Lenses

Applicable to all B4 type mount Canon 2/3" lenses.

Broadcast ENG/EFP, Pro Video Lens Optical Accessories

Close-Up Lenses

- A close-up lens is used to shorten the M.O.D.* of the master lens for close-up shooting.
 - The maximum object distance becomes the focal length of the close-up lens.
 - The minimum object distance is calculated by the following formula:
 - New minimum object distance = $fc \times S / (fc + S)$
 - fc = Focal length of the close-up lens
 - $S = M.O.D.^*$ of the master lens

Imaging range for KJ17ex7.7B with close-up lenses

	82CL-UP800H				82CL-UP1300H				
KJ17ex7.7B		Tele end	: 131mm	Wide en	d : 7.7mm	Tele end	: 131mm	Wide en	d : 7.7mm
(16:9)	Focusing Scale (mm)	œ	0.6	00	0.6	œ	0.6	00	0.6
	Object Distance (mm)	800	343	800	343	1300	411	1300	411
	Object Dimensions (mm)	58x33	24x14	989x556	376x212	95x53	29x16	1634x919	455x256

Model	Applicable Lenses			
82CL-UP800H*1	HJ18ex7.6B, HJ15ex8.5B, KJ17ex7.7B, KJ20x8.2B, KH20x6.4, KT17ex4.3B, KT20x5			
82CL-UP1300H ¹¹ HJ18ex7.6B, HJ15ex8.5B, KJ17ex7.7B, KJ20x8.2B, KH20x6.4, KT17ex4.3B, KT20x5				
105CL-UP900H*1 HJ24ex7.5B, KJ22ex7.6B				
105CL-UP800HG	105CL-UP800HG CJ20ex7.8B , CJ24ex7.5B, HJ24ex7.5B, KJ22ex7.6B			

*M.O.D. = Minimum Object Distance.

* 1: Not recommended for 4K shooting.

Broadcast ENG/EFP, Pro Video Lens Accessories

Compatible Zoom/Focus Control List

OPERATION	CATEGORY	MODEL	CJ45e×13.6B CJ45e×9.7B HJ40e×14B HJ40e×10B	CJ25ex7.6B CJ24ex7.5B HJ21ex7.5B CJ20ex7.8B HJ17ex6.2B CJ18ex28B KJ22ex7.6B CJ18ex7.6B KJ17ex7.7B CJ15ex8.5B KJ10ex4.5B CJ14ex4.3B KT17ex4.3B CJ12ex4.3B	KJ20×8.2B KJ13×6B KH20×6.4
	FOCUS DEMAND	FPD-400D	•	•	• *1
	DRIVE UNIT	FPM-77			•
		FPM-420D		• (IRS,KRS)	
	FLEX CONTROLLER	FFC-200	•*3	•*2	•
FOCUS		FFC-15			•
	FLEXIBLE CABLE (32 INCHES)	FC-40	• *3	• *2	•
		FFM-100		• *2	
	OUTLET	FM-12			•
		FFM-300	• *3		
	Z00M DEMAND	ZSD-300D	•	•	• *1
Z00M	PROVIDEO ZOOM	ZSD-15MII			•
	SERVO GRIP	ZSG-200M	• *1	• *1	•

* 1: A unit that can be attached using a conversion cable.

* 2: Please be aware use of these controllers will result in a lower image guality MTF.

* 3: These accessories are not recommended for use with CJ45ex9.7B and CJ45ex13.6B.

Broadcast ENG/EFP, Pro Video Lens Optical Accessories





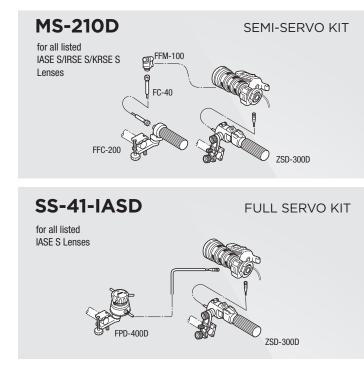
Conversion Cable is Necessary When Using with the Following Combinations

Model Name	Applicable Lens	Adapter Cable	Lens Side Pin#	Control Side Pin#
FPM-420D		CC-1220	12	20
FPD-400D	Analog Drive Lens	CC-0620	6	20
ZSD-300D		CC-0820	8	20

Control Accessories for Digital Drive ENG/EFP Lenses

CJ45ex13.6B / CJ45ex9.7B / CJ25ex7.6B / CJ20ex7.8B / CJ12ex4.3B / CJ18ex28B / CJ15ex8.5B / CJ24ex7.5B / CJ18ex7.6B / CJ14ex4.3B / HJ40ex14B / HJ40ex10B / HJ21ex7.5B / HJ17ex6.2B / KJ22ex7.6B / KJ17ex7.7B / KJ10ex7.5B / KT17ex4.3B

Recommended Kit Configurations



BROADCAST ENG/EFP Lens Accessories

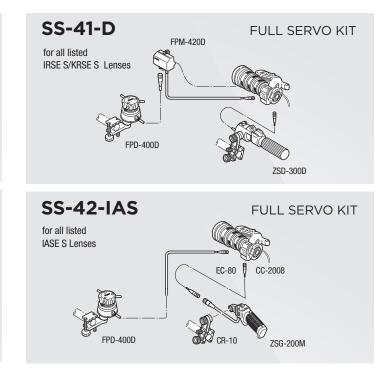


FPM-420D



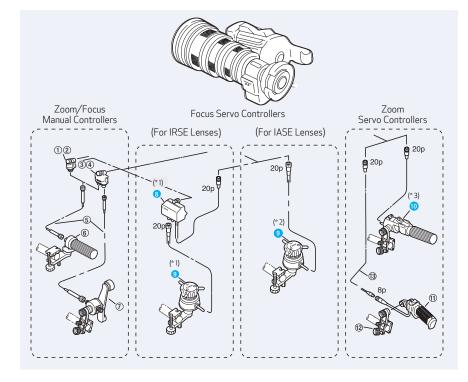


FFC-15



DIGITAL Control Accessories of Digital Drive ENG/EFP Lenses

Applicable Component Detail



#	UNIT	DESCRIPTION
1	FFM-100	Flex Focus Module
2	FFM-300	Flex Focus Module
3	FFM-200 ^{*1}	Flex Dual Module
4	FFM-400*1, 2	Flex Dual Module
5	FC-40	Flex Cable
6	FFC-200	Flex Focus Controller
7	FZC-100 ^{*1}	Flex Zoom Controller
8	FPM-420D ^{*1}	Focus Positional Servo Module
9	FPD-400D*1	Focus Positional Demand
10	ZSD-300D*1	Zoom Demand
(11)	ZSG-200M	Zoom Servo Grip
(12)	CR-10	Clamper
(13)	CC-2008	20p-8p Cable

- *1: FZC-100, FFM-200, FFM-400, FPD-400, FPM-420 and ZSD-300A/M are discontinued.
- *2: Analog FPD-400 is also applicable, however, CC-2006 conversion cable is necessary to connect between IASD/IASE Digital Drive Lens and FPD-400.
- *3: Analog ZSD-300A/M is also applicable but CC-2008 is needed to connect between IASE S digital drive lens and ZSD-300A/M.
- The controllers support the new DD functions.

Applicable Kit Detail

For IRSE S Type Lenses

		Zoom		Focus	
	Kit Name	System	Component	System	Component
Zoom	(ZR-1D)	ZR-1D	20	—	—
Servo Only	—	ZR-2(A)	21, 22, 28	—	—
Semi-Servo	MS-210D	ZR-1D	20	FR-2	2, 8, 10
Sellii-Selvo	MS-220	ZR-2(A)	21, 22, 28	FR-2	2, 8, 10
Full Servo	SS-41-D	ZR-1D	20	FPS-4D	13, 17
Full Manual	_	FZC-1	6, 8, 11	FR-2 (w/o 2)	8, 10

For IASE S Type Lenses (Except HJ40ex, CJ45ex)

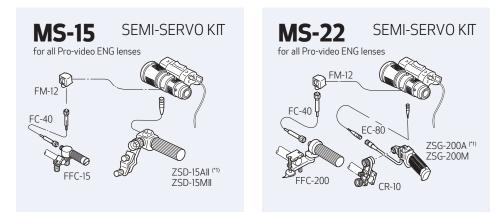
		Zoom		Foo	cus
	Kit Name	System	Component	System	Component
Zoom	(ZR-1D)	ZR-1D	20	—	—
Servo Only	_	ZR-2(A)	21, 22, 28	—	—
Semi-Servo	MS-210D	ZR-1D	20	FR-2	2, 8, 10
36111-36110	MS-220	ZR-2(A)	21, 22, 28	FR-2	2, 8, 10
Full Servo	SS-41-IASD	ZR-1D	20	FPS-4D	17
Full Selvo	SS-42-IASD	ZR-2(A)	21, 22, 28	FPS-4D	17
Full Manual	_	FZC-1	6, 8, 11	FR-2 (w/o 2)	8, 10

For CJ45ex13.6B, CJ45ex9.7B, HJ40ex14B and HJ40ex10B

		Zoom		Focus	
	Kit Name	System	Component	System	Component
Zoom	_	ZR-1D	20	—	—
Servo Only		ZR-2(A)	21, 22, 28	—	—
Semi-Servo	_	ZR-1D	20	FR-2	3, 8, 10
36111-36140	_	ZR-2(A)	21, 22, 28	FR-2	3, 8, 10
Full Servo	SS-41-IASD	ZR-1D	20	FPS-4D	17
Full Servo	SS-42-IASD	ZR-2(A)	21, 22, 28	FPS-4D	17
Full Manual	_	FZC-1	6, 8, 11	FR-2 (w/o 2)	8, 10

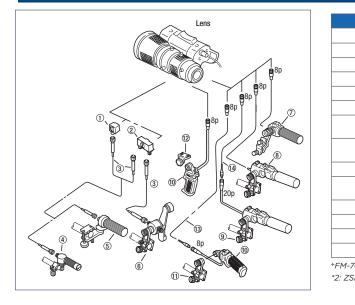
ANALOG Control Accessories for Analog Drive HDgc Lenses

Recommended Kit Configuration



*1: "A" or "M" type demands depend upon camera. Type "A" demands are no longer available from Canon.

Applicable Component Detail



Applicable Kit Detail

		Zo	om	Focus	
	Kit Name	System	Component	System	Component
	—	ZSD-15	16	—	—
Zoom Corve Only	—	ZR-1	17	—	—
Zoom Servo Only	—	ZR-2(A)	19, 20, 26	—	—
	—	ZR-2(B)	19, 21*	—	—
	MS-15	ZSD-15	16**	FRC-15	1, 8, 9**
Semi-Servo	MS-21	ZR-1	17	FR-2	1, 8, 10
26111-26140	MS-21D	ZR-1D	18, 28	FR-2	1, 8, 10
	MS-22	ZR-2(A)	19, 20, 26	FR-2	1, 8, 10
Full Manual	FZC-1	FZC-1	5*, 8, 11	FR-2(w/o 1)	8, 10



#	UNIT	DESCRIPTION					
1	FM-12	Flex Focus Module					
2	FM-70 ⁺	Flex Dual Module					
3	FC-40	Flex Cable					
4	FFC-15	Flex Focus Controller					
5	FFC-200	Flex Focus Controller					
6	FZC-100*	Flex Zoom Controller					
7		ZSD-15A II /M II Zoom Demand ¹² A (A or M types, depends on applicable camera) M					
8		Zoom Demand ^{•2} A ds on applicable camera) M					
9	ZSD-300D	Zoom Demand					
10		Zoom Servo Grip*² A ds on applicable camera) M					
(11)	CR-10	Clamper					
(12)	GA-70*	Grip Adapter					
(13)	EC-80	Zoom Extension Cable (8P)					
(14)	CC-0820	Conv. Cable (8pM-20pF)					

*FM-70, FZC-100, and GA-70 are discontinued.

*2: ZSD-15A II, ZSD-300A/M, ZSG-200A, and FPD-400 are no longer available from Canon stock.

* (2) & (12) are not applicable to YH14x7.3 and YH16x7.

**In USA, 7 and 4 are available only as MS-15 kit configuration and not as individual products.

Recommended kit configuration.

CINEMA LENS LINEUP

ZOOM Series

Canon Cinema Zoom Lenses offer superb 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.



COMPACT ZOOM Series

Canon Cinema Compact Zoom Lenses offer 4K resolution in form factors that enable more flexible, less intrusive shooting. 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.





SUMIRE PRIME Series

Canon is introducing a new line of cinema prime lenses named "SUMIRE Prime" (pronounced "Soo-mee-ray") - associated with a floral gentleness and beauty. A unique optical design introduces a nuanced look as the lens aperture approaches its maximum setting - subtly modifying the textural renderings of the human facial close-up. It also smooths the transition to the fall-off portions of the scene resulting in a pleasing bokeh. This combination adds emotional expressiveness to a memorable scene.



PRIME Series

The flexible series of Canon Cinema Prime Lenses offers spectacular 4K-image quality and a full-frame image circle, in lightweight, compact designs. They feature high optical speed, produce remarkably sharp 4K images and superb contrast, and maintain tightly controlled focus breathing and geometric distortion. Low T-numbers enable better low-light shooting.



CINE-SERVO Series

Canon CINE-SERVO Lenses support cinema production as well as 4K content creation for broadcast. Featuring a servo drive unit, they can be ideal for shooting scenarios where mobility is key.



COMPACT-SERVO Series

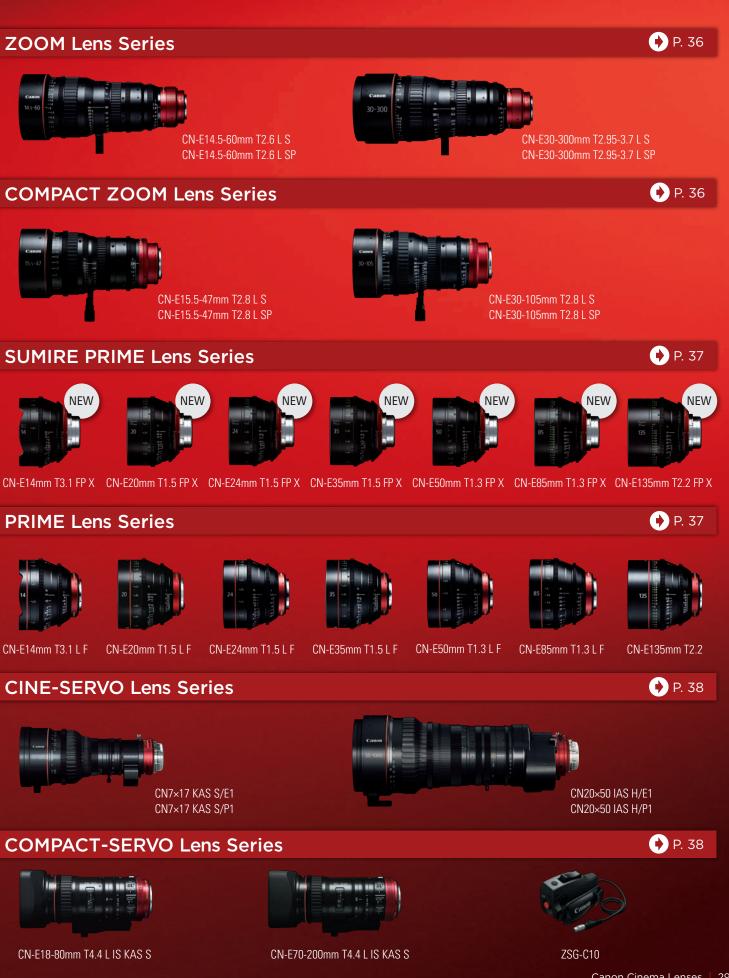
COMPACT-SERVO lenses combine the benefits of compact size and light weight for outstanding mobility Designed to shoot video, these lenses combine the functionality of our EF lenses with the video shooting features of our Cinema lenses.

ZOOM Lens Series



COMPACT ZOOM Lens Series















MEETING THE DEMANDS OF THE 4K ERA **Canon Cinema Lens Technology**

Optical Performance

Crystal Clear Canon Optical Technology Super 35mm,* High quality 4K/HDR

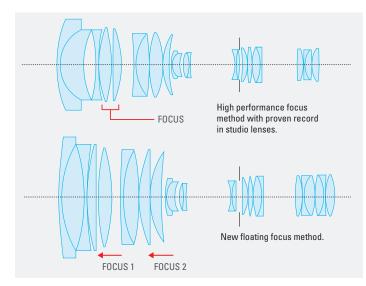
From the center to the periphery of our cinema lenses, a highquality 4K/HDR image is achieved for both single focus and zoom lenses within the entire zoom range. Canon's optical technologies are combined to help correct various aberrations and provide high contrast while achieving a high resolution of about 80 lines/mm throughout the Super 35 mm sensor.

*The PRIME Lens series also supports the image size of Full Frame or APS-H.



Focus Breathing Suppression

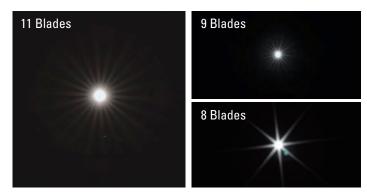
Focus breathing is caused when the focus group moves and exerts a "zooming" effect. In order to prevent this, cinema lenses implement a 3-group inner focus method and a new floating method to help minimize field angle fluctuation and achieve stable framing.





11 Blade Aperture

Halos from points of light at night or from rays of sunlight in shots that show the sun take on the shape of the Iris blades. The odd number of blades make the iris aperture look circular even when the Iris is contracted, enabling beautiful, round highlight bokeh.



Warm Color Balance

Cinema lens color balance, ideal for movie production, reproduces warm skin tones. Color balance is strictly uniform across all Canon cinema lenses making lens substitution during the same scene possible. Anti-reflection film technology, including super spectral coatings and thorough corrections for slight color variations caused by glass components allow Canon lenses to achieve this effect.



Flange Back Adjustment

A flange back adjustment mechanism is installed on the lens mounts to allow for back focus adjustments.

* Excluding PRIME Lens series.

Luminous Index

The focus index on the front lens barrels is printed with luminescent paint to improve visibility at night and in dark studio conditions.



Cinema Lens Focal Distance Table

ZOOM Lenses			
Angle of view horizontal (1.78:1)*1	79.2°		43.6°
Focal Distance (mm)	14.5		30
CN-E14.5-60mm T2.6 L			
CN-E30-300mm T2.95-3.7 L			
COMPACT ZOOM Lens	es		
Angle of view horizontal (1.78:1)*2	75.5°		43.6°
Focal Distance (mm)	15.5		30
CN-E15.5-47mm T2.8 L			
CN-E30-105mm T2.8 L			
SUMIRE PRIME Lenses			
Angle of view horizontal (1.78:1)*2	82.6°	63.2°	54
Focal Distance (mm)	14	20	2
CN-E14mm T3.1 FP X	•		
CN-E20mm T1.5 FP X		•	
CN-E24mm T1.5 FP X			
CN-E35mm T1.5 FP X			
CN-E50mm T1.3 FP X			
CN-E85mm T1.3 FP X			
CN-E135mm T2.2 FP X			
PRIME Lenses			
Angle of view horizontal (1.78:1)*2	82.6°	63.2°	54
Focal Distance (mm)	14	20	2
CN-E14mm T3.1 L F	•		
CN-E20mm T1.5 L F		•	
CN-E24mm T1.5 L F			
CN-E35mm T1.5 L F			
CN-E50mm T1.3 L F			
CN-E85mm T1.3 L F			
CN-E135mm T2.2 L F			
CINE-SERVO Lenses			
Angle of view horizontal (1.78:1)*2	71.8°		27.6°
Focal Distance (mm)	17		50
CN7×17 KAS S			
CN20×50 IAS H			
COMPACT-SERVO Lens	ses		
Angle of view horizontal (1.78:1)*2	68.7°		
Focal Distance (mm)	18		

*1: When the screen size is 24.0 × 13.5 mm. *2: When the screen size is 24.6 × 13.8 mm.

CN-E70-200mm T4.4 L IS KAS S

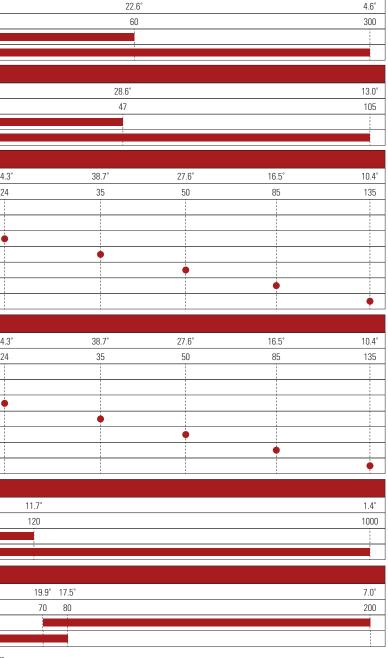
CN-E18-80mm T4.4 L IS KAS S

Dust/Splash Resistant Seals and Casing*

Our CN-E EF prime and Sumire Prime lenses use dust and splash resistant rubber gaskets at the casing joints.

* Lenses are not designed to be submersible in water or exposed to heavy rain.









Skin Tone

Sumire Prime

Canon is introducing a new line of cinema prime lenses - appropriately named "SUMIRE Prime". Pronounced "Soo-mee-ray" in Japanese. It is associated with a floral gentleness and beauty. In addition to bright T-stops and Canon's renowned warm imagery, a unique optical design introduces a nuanced look as the lens aperture approaches its maximum setting - subtly modifying the textural renderings of the human facial close-up. It also smooths the transition to the fall-off portions of the scene resulting in a pleasing bokeh. This combination adds emotional expressiveness to a memorable scene.



SUMIRE PRIME Lens Series: Highlights

Covers Full-frame, Super 35mm and **APS-C Sensors**

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

Phosphorescent Indicators

To improve visibility in nighttime and dark area shooting, indicator markings with phosphorescent paint have been adopted for the front barrel (for right-side viewing).

Artistically Pleasing Image Rendering And Warm Colors

The original lens composition with large diameter aspheric lens and anomalous dispersion glass offers more solid and artistically pleasing image rendering. This brings out the impressive image quality of 4K cinema images in all their glory. And the warm color tones have been made consistent throughout the series to artistically pleasing capture people's facial expressions and enable better depiction of the subject's texture.

Minimized Focus Breathing The lens controls focus breathing, which realizes

stability in images even when bokeh effects occur due to refocusing.

Unified Front Lens Diameter, Gear Position

PL MOUNT

CN-E14mm T3.1 FP X CN-E20mm T1.5 FP X

CN-E24mm T1.5 FP X

CN-E35mm T1.5 FP X CN-E50mm T1.3 FP X CN-E85mm T1.3 FP X CN-E135mm T2.2 FP X

Compact Zoom and Prime lenses have the same front lens diameter and consistent gear positions, so lenses within each series can be switched without adjusting the rig setup.

Sumire Prime Lens Series





Soft, Natural Bokeh Effects

The bright T-number of the PRIME lens and multiblade iris diaphragm produce natural blur effects closer to a circle, from maximum to minimum aperture. This enables more three-dimensional bokeh even with super wide angle lenses that have deeper depth of field, broadening the range of visual expression.

11-Blade Iris

With the increased number of iris blades, users can get natural bokeh that appears more circular, from maximum to minimum aperture. The use of an odd number of blades diffuses light rays in high-brightness subjects and renders images more artistically pleasing.

PL Mount

PL mounts, which are in high demand in the cinema market, have been adopted to support a variety of cameras used in this market.

ZOOM / COMPACT ZOOM Lens Series: Highlights

Easy-to-Read Controls

Focus, Zoom, and Iris markings are provided on angled surfaces. These markings are easy to read from behind the camera.

Support Industry-Standard Cameras Covers Super 35mm and APS-C sensors.

Light, Compact Small and light to meet a variety of shooting needs.

Comfortable Usability

Inner Focus angle of view.

30-300

Marked 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.

11-Blade Circular Aperture enables soft. beautiful background bokeh.

PRIME Lens Series: Highlights

Covers Full-frame, Super 35mm and **APS-C Sensors**

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

Fast Aperture Enables shooting with the shallow DOF and broad bokeh that large sensors offer.

Light, Compact

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

Standard Accessories Supported

Supports industry-standard accessories such as power-drive devices and matte boxes.

Accepts 105mm filters (except for 14mm)

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

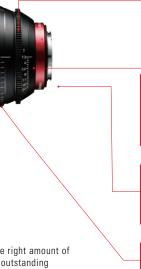
without using a matte box.

Phosphorescent Indicators

To improve visibility in nighttime and dark area shooting, indicator markings with phosphorescent paint have been adopted for the front barrel (for right-side viewing).

Consistent Torque Control Rings maintain the right amount of resistance while offering outstanding usability with consistent operating torque.





Unified Front Lens Diameter, Gear Position

Compact Zoom and Prime lenses have the same front lens diameter and consistent gear positions, so lenses within each series can be switched without adjusting the rig setup.

Prime Lens Series



11-Blade Iris

With the increased number of iris blades, users can get natural bokeh that appears more circular, from maximum to minimum aperture. The use of an odd number of blades diffuses light rays in high-brightness subjects and renders images more artistically pleasing.

EF Mount

Communication functions with Cinema EOS Cameras. It works seamlessly with our Cinema EOS cameras. allowing you to take full advantage of the camera's features and functionality.

Switchable Unit for Focus Marking

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

CINE-SERVO 50-1000mm: Highlights

Support Industry-Standard Cameras Covers Super 35mm and APS-C sensors. Covers Full Frame and APS-H with Built-in 1.5x Extender.

Robust and Durable Housing Structure

20x Zoom Magnification

Ultra Telephoto 50-1000mm Focal Range Removable Servo Drive Unit Removable servo drive unit with various user setting capabilities.



Support High Quality 4K/HDR Shooting High optical performance with support for Super35mm large format cameras.

Built-In 1.5x Optical Extender Cover the image size of Full Frame or APS-H Camera.

CINE-SERVO 17-120mm: Highlights

Support Industry-Standard Cameras Covers Super 35mm and APS-C sensors.

High Durability and Ruggedness

7x Zoom Magnification

Wide 17-120mm Focal Range

Ergonomic Design Ergonomically designed drive unit for ease of operation.

Support High Quality 4K/HDR Shooting High optical performance with support for Super35mm large format cameras.

Removable Servo Drive Unit Removable servo drive unit with various user setting capabilities.



Accessory Connectors Three 20-pin connectors for externally operated

Accessory Connectors

virtual studio systems.

000

Three 20-pin connectors for externally operated

accessories and a 16-bit metadata output for

Multiple Communication Capability

with Compatible Cameras

Designed for Cinema and

Compact and Lightweight

Compact and lightweight lens available in an

EF mount and PL mount that can be converted at an authorized Canon service facility.

Broadcast Applications

accessories and a 16-bit metadata output for virtual studio systems.



Multiple Communication Capability with Compatible Cameras

11-Blade Iris Provides Natural Bokeh

Designed for Cinema and Broadcast Applications

Compact and Lightweight

Compact and lightweight lens available in an EF mount and PL mount that can be converted at an authorized Canon service facility.



Drive Unit

Removable Drive Unit

Canon CINE-SERVO lenses include a drive unit that provides the same user experience as found in our broadcast zoom lenses. Removing the drive unit allows for full manual operation of the lenses.



■ No Initialization

Initialization of the drive unit is not required at power-on. Initialization is required at power-on for conventional drive units. Immediate startup helps contribute to more efficient shooting.

Compatible With Standard Broadcast Demands Demand Supported

Compatible with Canon's standard broadcast industry demands such as ZSD-300D and FPD-400D. Canon's 8-pin demand* can be connected via a conversion cable.

Enables High-Precision, Natural Composition

Virtual Studio System

A high precision 16-bit encoder (zoom and focus only) makes connection to various virtual studio systems possible. Three, 20-pin terminals allow a virtual connection even when zoom and focus demands are

connected



* Iris operation is also possible by connecting FDJ-P01 via conversion cable. It will be selected as either virtual output or iris operation



Peripheral Illumination Correction EF Mount Communication Protocol Support^{*1}

Information communication is possible via CINEMA EOS SYSTEM cameras and mounts. It is possible to record lens information at the time of shooting and peripheral illumination correction^{*2}.

*1: ZOOM Lenses are excluded. Only EF mounted lenses are supported. *2: Some lenses require a camera firmware update. Some lenses are scheduled to be handled by firmware update

Supports Broadcast Industry Standards 12-Pin Serial Communication*

Supports 12-pin serial communication which is a broadcasting communication standard.

* Applicable lens: CINE-SERVO Lens series. It is necessary for the camera side to support 12 pin serial communication.

Supports Communication Standards of Film Production Industry

/i Technology Compatible*

Canon's PL-mount CINE-SERVO lenses are compatible with Cooke's "/i Technology" communication standard which has been widely adopted throughout the video production industry. Focus/zoom/aperture position data can be sent to the corresponding camera, recorded and displayed.



* Applicable lens: PL mount lens of CINE-SERVO Lens series only. The camera side must support /i Technology. Communication is possible when drive unit is installed.

ZOOM Lens Series

Appearance		CN-E14.5-60mm T2.6 L S CN-E14.5-60mm T2.6 L S		CN-E30-300mm T2.95-3.7 L CN-E30-300mm T2.95-3.7 L		
Model Name		CN-E14.5-60mm T2.6 L S	CN-E14.5-60mm T2.6 L SP	CN-E30-300mm T2.95-3.7 L S	CN-E30-300mm T2.95-3.7 L SP	
Mount		EF Mount	PL Mount	EF Mount	PL Mount	
Zoom Ratio		4.1	1×	10	×	
Focal Length		14.5 ~ 60mm		30 ~ 3	00mm	
Max. Relative Ap	erture (T-Number)	T2.6 14.5 ~ 60mm		T2.95 30 ~ 240mm / T3.7 300mm		
Iris Blades		11		1'	1	
Angle	1:5:1 36.0x24.0mm	79.2°×49.9 22.6°×12.6		43.6°×25.4° 30mm 4.6°×2.6° 300mm *1		
of View	1.9:1 26.2x13.8mm	80.6°×50.9 23.2°×13.1		44.6°×25.9° 30mm 4.7°×2.6° 300mm *2		
M.O.D. (Minimun	n Object Distance)	0.70m	n/2'4"	1.5m/5'		
Object Dimensions	1:5:1 36.0x24.0mm	65.2×36.7c 15.0×8.4cr		98.8×55.6cm 30mm 9.6×5.4cm 300mm "1		
at M.O.D	1.9:1 26.2x13.8mm	66.9×37.5cm 14.5mm 15.4×8.6cm 60mm *2		101.3×56.8cm 30mm 9.9×5.6cm 300mm *2		
Front Diameter	Front Diameter 136.0mm		136.0mm			
Filter Diameter		-	-		-	
Approx. Size (Wx	(HxL)	5.35x6.42x12.83 in. (136.0×163.1×326.0mm)	5.35x6.42x12.52 in. (136.0×163.1×318.0mm)	5.67x6.58x13.78 in. 5.67x6.58x13.47 in. (144.0×167.1×350.1mm) (144.0×167.1×342.1m		
Approx. Weight 9.9 lbs (4.5kg)			12.79 lb	s (5.8kg)		

× Lenses compatible with Super 35mm Sensor cameras.

*1: Aspect ratio 1.78: 1, Screen size 24.0 x 13.5 mm. *2: Aspect ratio 1.78:1, Screen size 24.6 x 13.8 mm

COMPACT ZOOM Lens Series

Appearance		CN-E15.5-47mm T2.8 L CN-E15.5-47mm T2.8 L		CN-E30-105mm T2.8 L S CN-E30-105mm T2.8 L SP		
Model Name		CN-E15.5-47mm T2.8 L S	CN-E15.5-47mm T2.8 L SP	CN-E30-105mm T2.8 L S	CN-E30-105mm T2.8 L SP	
Mount		EF Mount	PL Mount	EF Mount	PL Mount	
Zoom Ratio		3:	×	3.	Б×	
Focal Length		15.5 ~ 47mm		30 ~ 1	05mm	
Max. Relative Ap	perture (T-Number)	T2.8 15.5 ~ 47mm		T2.8 30 ~ 105mm		
Iris Blades		11		1	1	
Angle	1:5:1 36.0x24.0mm	75.5°×47.1 28.6°×16.3		43.6°×25.4° 30mm 13.0°×7.4° 105mm ^{*1}		
of View	1.9:1 26.2x13.8mm	80.4°×48.0 31.1°×16.7		47.2°×25.9° 30mm 14.2°×7.5° 105mm) [™]		
M.O.D. (Minimun	n Object Distance)	0.50m/1'8"		0.60	m/2'	
Object Dimensions	1:5:1 36.0x24.0mm	43.6×24.5cm 15.5mm 14.1×7.9cm 47mm ¹¹		32.3×18.2 9.3×5.2cm		
at M.O.D	1.9:1 26.2x13.8mm	47.6×25.1cm 15.5mm 15.4×8.1cm 47mm *2		35.3×18.6cm 30mm 10.2×5.4cm 105mm *2		
Front Diameter		114mm 114mm		mm		
Filter Diameter	Filter Diameter UV/105 P1		05 P1	UV/1	05 P1	
Approx. Size (W)	«HxL)	4.49x4.92x8.74 in. (114.0×125.0×222.0mm)	4.49x4.92x8.43 in. (114.0×125.0×214.0mm)	4.49x4.92x8.58 in. 4.49x4.92x8.26 in. (114.0×125.0×218.0mm) (114.0×125.0×210.0mm)		
Approx. Weight		4.85 lbs	(2.2kg)	4.85 lbs	(2.2kg)	

% Lenses compatible with Super 35mm Sensor cameras.
*1: Aspect ratio 1.78:1, Screen size 24.0 x 13.5 mm. *2: Aspect ratio 1.78:1, Screen size 24.6 x 13.8 mm

SUMIRE PRIME Lens Series

CN-E14mm T3.1 FP X	CN-E20mm T1.5 FP X	CN-E24mm T1.5 FP X	CN-E35mm T1.5 FP X	CN-E50mm T1.3 FP X	CN-E85mm T1.3 FP X	CN-E135mm T2.2 FP X
NEW						
CN-E14mm T3.1 FP X	CN-E20mm T1.5 FP X	CN-E24mm T1.5 FP X	CN-E35mm T1.5 FP X	CN-E50mm T1.3 FP X	CN-E85mm T1.3 FP X	CN-E135mm T2.2 FP X
PL Mount						
-	-	-	-	-	-	-
14mm	20mm	24mm	35mm	50mm	85mm	135mm
T3.1	T1.5	T1.5	T1.5	T1.3	T1.3	T2.2
11	11	11	11	11	11	11
104.3°×81.2° *1	84.0°×61.9° *1	73.7°×53.1° *1	54.4°×37.8° *1	39.6°×27.0° *1	23.9°×16.1° *1	15.2°×10.2° *1
82.6°×52.5° *2	63.2°×38.1° *2	54.3°×32.1° *2	38.7°×22.3° *2	27.6°×15.7° *2	16.5°×9.3° *2	10.4°×5.9° *2
0.20m / 8"	0.30m / 12"	0.30m / 12"	0.30m / 12"	0.45m / 18"	0.95m / 3'2"	1.0m / 3'3"
25.2×16.8cm *1	33.8×22.5cm *1	28.8×19.2cm *1	20.2×13.5cm *1	25.0×16.7cm *1	34.4×22.9cm *1	21.1×14.1cm *1
17.2×9.7cm *2	23.1×13.0cm *2	19.7×11.0cm *2	13.8×7.7cm *2	17.1×9.6cm *2	23.5×13.2cm *2	14.4×8.1cm *2
114mm						
-	UV/105 P1 filter					
4.66x4.66x3.39 in. (118.4×118.4×86.0mm)	4.66x4.66x3.68 in. (118.4×118.4×93.5mm)	4.66x4.66x4.24 in. (118.4×118.4×107.6mm)				
2.65 lbs (1.2kg)	2.65 lbs (1.2kg)	2.65 lbs (1.2kg)	2.43 lbs (1.1kg)	2.43 lbs (1.1kg)	2.87 lbs (1.3kg)	3.09 lbs (1.4kg)

% Lenses compatible with Full-frame and Super 35mm Sensor cameras.
*1: Aspect ratio 1.5:1, Screen size 36.0 × 24.0 mm. *2: Aspect ratio 1.76:1, Screen size 24.6 x 13.8 mm.

PRIME Lens Series

CN-E14mm T3.1 L F	CN-E20mm T1.5 L F	CN-E24mm T1.5 L F	CN-E35mm T1.5 L F	CN-E50mm T1.3 L F	CN-E85mm T1.3 L F	CN-E135mm T2.2 L F
CN-E14mm T3.1 L F	CN-E20mm T1.5 L F	CN-E24mm T1.5 L F	CN-E35mm T1.5 L F	CN-E50mm T1.3 L F	CN-E85mm T1.3 L F	CN-E135mm T2.2 L F
EF Mount						
-	-	-	-	-	-	-
14mm	20mm	24mm	35mm	50mm	85mm	135mm
T3.1	T1.5	T1.5	T1.5	T1.3	T1.3	T2.2
11	11	11	11	11	11	11
104.3°×81.2° *1	84.0°×61.9° *1	73.7°×53.1° *1	54.4°×37.8° *1	39.6°×27.0° *1	23.9°×16.1° *1	15.2°×10.2° *1
82.6°×52.5° *2	63.2°×38.1° *2	54.3°×32.1° *2	38.7°×22.3° *2	27.6°×15.7° *2	16.5°×9.3° *2	10.4°×5.9° *2
0.20m / 8"	0.30m / 12"	0.30m / 12"	0.30m / 12"	0.45m / 18"	0.95m / 3'2"	1.0m / 3'3"
24.8×16.5cm *1	33.8×22.5cm *1	28.8×19.2cm *1	20.1×13.4cm *1	24.9×16.6cm *1	34.3×22.9cm *1	21.1×14.1cm *1
16.9×9.5cm *2	23.1×13.0cm *2	19.7×11.0cm *2	13.7×7.7cm *2	17.0×9.5cm *2	23.4×13.1cm *2	14.4×8.1cm *2
114mm						
-	UV/105 P1 filter					
4.66x4.66x3.70 in. (118.4×118.4×94.0mm)	4.66x4.66x4.0 in. (118.4×118.4×101.5mm)	4.66x4.66x4.55 in. (118.4×118.4×115.6mm)				
2.65 lbs (1.2kg)	2.65 lbs (1.2kg)	2.65 lbs (1.2kg)	2.43 lbs (1.1kg)	2.43 lbs (1.1kg)	2.87 lbs (1.3kg)	3.09 lbs (1.4kg)

% Lenses compatible with Full-frame and Super 35mm Sensor cameras.
*1: Aspect ratio 1.5:1, Screen size 36.0 × 24.0 mm. *2: Aspect ratio 1.78:1, Screen size 24.6 x 13.8 mm.

EF CINEMA Lenses

Sumire Prime

CINE-SERVO Lens Series

Appearance		CN7×17 KAS S/E1 CN7×17 KAS S/P1		CN20×50 IAS H/E1 CN20×50 IAS H/P1		
Model Name		CN7×17 KAS S/E1	CN7×17 KAS S/P1	CN20×50 IAS H/E1	CN20×50 IAS H/P1	
Mount		EF Mount	PL Mount	EF Mount	PL Mount	
Zoom Ratio		7	×	20	×	
Focal Length		17 ~ 1	17 ~ 120mm		75 ~ 1500mm *3	
Max. Relative Ap	erture (T-Number)	T2.95 17 ~ 91mr	T2.95 17 ~ 91mm /T3.9 120mm		T7.5 (75-840mm) / T13.35 (1500mm)*3	
Iris Blades		11		1*	1	
Angle	1:5:1 36.0x24.0mm	71.8°×44. 11.7°×6.6	2° 17mm 1° 120mm *1	27.6°×15.7° 50mm 1.4°×0.8° 1000mm *1	18.6°×10.5° 75mm 0.9°×0.5° 1500mm * ^{1 *3}	
of View	1.9:1 26.2x13.8mm	75.2°×44. 12.5°×6.6'	2° 17mm ° 120mm) *²	29.4°×15.7° 50mm 1.5°×0.8° 1000mm *2	19.8°×10.5° 75mm 1.0°×0.5° 1500mm *² *3	
M.O.D. (Minimum	Object Distance)	0.85n	n/2.8'	3.5m/11.5'		
Object Dimensions	1:5:1 36.0x24.0mm	86.3×48.4 12.0×6.7cr	cm 17mm n 120mm *1	139.3×78.1cm 50mm 7.3×4.1cm 1000mm *1	92.9×52.1cm 75mm 4.9×2.7cm 1500mm *1 *3	
at M.O.D	1.9:1 26.2x13.8mm	92.1×48.5cm 17mm 12.7×6.7cm 120mm *2		148.3×78.1cm 50mm 7.8×4.1cm 1000mm *2	98.9×52.1cm 75mm 5.2×2.7cm 1500mm *2 *3	
Front Diameter	Front Diameter 114mm		mm	136.0mm		
Filter Diameter		CL/11	12mm	CL/127mm-H,	UV/127mm-H	
Approx. Size (WxHxL)		6.86x4.92x10.35 in. (174.2×125.0×262.9mm)	6.86x4.92x10.04 in. (174.2×125.0×254.9mm)	6.89x6.72x16.27 in. (175.0×170.6×413.2mm)	6.89x6.72x15.95 in. (175.0×170.6×405.2mm)	
Approx. Weight		6.39 lbs	(2.9kg)	14.55 lbs (6.6kg)		

% Lenses compatible with Super 35mm Sensor cameras.

*1: Aspect ratio 1.78:1, Screen size 24.6 x 13.8 mm. *2: Aspect ratio 1.9:1, Screen size 26.2 x 13.8 mm. *3: When using the built-in extender.

COMPACT-SERVO Lens Series

Appearance		CN-E18-80mm T4.4 L IS KAS S	CN-E70-200mm T4.4 L IS KAS S	COMPACT-SERVO Lens Accessories	
		Culton and a	Carry Democratic	ZSG-C10	
Model Name		CN-E18-80mm T4.4 L IS KAS S	CN-E70-200mm T4.4 L IS KAS S		
Mount		EF Mount	EF Mount		
Zoom Ratio		4.4×	2.8×	Bocker seesaw	
Focal Length		18 ~ 80mm	70 ~ 200mm		
Max. Relative Aperture (T-Number)		T4.4 18 ~ 80mm	T4.4 70 ~ 200mm	Start/Stop button ^{*1}	
Iris Blades		9	9	ONE-SHOT AF button *1	
Angle of View	1:5:1 36.0x24.0mm	68.7°×41.9° 18mm 17.5°×9.9° 80mm *1	19.9°×11.3° 70mm 7.0°×4.0° 200mm *1	 20 PIN cable *2 Flexible mounting angle. 	
	1.9:1 26.2x13.8mm	72.1°×41.9° 18mm 18.6°×9.9° 80mm *2	21.2°×11.3° 70mm 7.5°×4.0° 200mm *2		
M.O.D. (Minimum Object Distance)		0.5m/1.7'	1.2m/4.0'	 Sold separately. Support strut, bracket, hex wrench included. 	
Object Dimensions at M.O.D	1:5:1 36.0x24.0mm	43.4×24.3cm 18mm 9.5×5.3cm 80mm *1	31.3x17.5cm 70mm 11.5x6.4cm 200mm *1	*1: For compatible cameras, please visit our website cinemaeos.usa.canon.com	
	1.9:1 26.2x13.8mm	46.2×24.3cm 18mm 10.1×5.3cm 80mm *2	33.3x17.5cm 70mm 12.2x6.4cm 200mm *2	*2: For connection to the lens body.	
Front Diameter		84mm	84mm	1	
Filter Diameter		77MM Protect Filter, PL-C B 77MM	77MM Protect Filter, PL-C B 77MM		
Approx. Size (WxHxL)		3.67x4.22x7.18 in. (93.4×107.2×182.3mm)	3.67x4.22x7.18 in. (93.4x107.2x182.3mm)		
Approx. Weight		2.65 lbs (1.2kg) (including servo unit)	2.76 lbs (1.25kg) (including servo unit)	1	

☆ Lenses compatible with Super 35mm Sensor cameras.

*1: Aspect ratio 1.78:1, Screen size 24.6 x 13.8 mm.

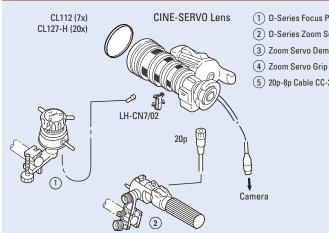
*2: Aspect ratio 1.9:1, Screen size 26.2 x 13.8 mm.

CINE-SERVO Lens / COMPACT-SERVO Lens Accessories

Category	Model	Notes	CN7×17 KAS S/E1 CN7×17 KAS S/P1	CN20×50 IAS H/E1 CN20×50 IAS H/P1	CN-E18-80mm CN-E70-200mm
Focus Demand	FPD-400D	There is no need for an optional cable.	•	•	• *1 * 2
	FDJ-D02	BDC - 11 cable (20p - 18p) is required.	•	•	_
	FDJ-P01	BDC - 21 cable (20p - 12p) is required.	•	•	_
	FDJ-S01	BDC - 21 cable (20p - 12p) is required.	•	•	
Zoom Demand	ZSD-300D	There is no need for an optional cable.	•	•	*1 * 2
	ZSD-15MII	CC-2008 Cable (20p - 8p) is required.	•	•	• *1 *2
	ZDJ-D02	BDC-11 cable (20p-18p) is required.	•	•	_
	ZDJ-P01	BDC - 21 cable (20p - 12p) is required.	•	•	_
	ZDJ-S01	BDC - 21 cable (20p - 12p) is required	•	•	_
Inia Damand	FDJ-D02	BDC - 11 cable (20p - 18p) is required.	•	•	_
Iris Demand	FDJ-P01	BDC - 21 cable (20p - 12p) is required.	•	•	_
	BDC-21	20p-12p cable. Required for FDJ-P01 / ZDJ-P01.	•	•	_
Demand Cable	BDC-11	20p - 18p cable. Required for FDJ-D02 / ZDJ-D02.	•	•	_
	CC-2008	20p - 8p cable. Required for ZSD-15ll	•	•	٠
	77MM Protect Filter	77MM Protect filter		_	•
Clear Filter	CL/127MM-H	CL/127MM-H	•	•	—
	CL/112MM	CL/112MM	•	_	_
Polarizaton Filter	PL-C B 77MM	PL-C B 77MM		_	•
Close-Up Lens	se-Up Lens CL-UP500D 77MM CL-UP500D 77MM		_	_	•
Lens Holder	LH-CN7/02	Used when you want to improve the degree of freedom of Focus ring rotation operation. (The lens support attached to the main unit is supported on the front side.)	•	_	_
Power Cable	C-ZLPR*	For power supply from external battery. 12-pin - Dtap cable.			_

* Made by IDX. ※ 1: Multiple controllers can not be connected at the same time (because there is only one connector). When installing the ZSG - C10 and enabling the operation on the grip side, you can not connect the external controller. * 2: For use in studio configurations, an optional Zacuto Z-CNYC. Y-cable can be used to connect zoom and focus controllers to each lens. This configuration allows for simultaneous zoom and focus operation with COMPACT-SERVO lenses.





* Some vignetting occurs when used in combination with RED's Epic system.

* The optional Zacuto® Z-CNYC Y-cable allows for simultaneous use of zoom and focus controllers with both Compact-Servo lenses.

Zacuto[®] Z CNYC Y-cable

High Definition **PTZ Cameras**



BU-47H

Outdoor Remote Control Pan-Tilt System

To meet the diverse needs of outdoor broadcasters, cable networks, businesses, industrial entities, weather monitoring, and traffic POV, Canon has created a solution for cost-effective, turnkey, remotely-controllable Pan-Tilt-Zoom (PTZ) HD Camera systems allowing users to extend creative flexibilities. Canon has harnessed multiple unique technologies and experience in HD optics and digital cameras, robotics, and control software to produce a cost-effective, integrated HD lens-camera PTZ product offering outstanding HD picture quality. The BU-47H is a rugged yet elegant outdoor PTZ system following a legacy of decades of Canon expertise in designing such systems. A sister product, the BU-51H, has a design tailored for indoor applications.

HD PTZ Cameras

	BU-47H		
Appearance			
Model Name	BU-47H		
Operation Condition	Outdoor		
Operation Angle	Pan: 340° Tilt: + 30°~-50°		
Operation Speed	Panning: 0.5° ~ 25°/s Tilting: 0.3° ~ 20°/s		
Repeatability	Less than ±10 arc degrees		
Wiper	Built-in Electric Wiper		
Mic Input	Jack provided, pedestal section		
Input/Output Connectors	DC terminal, Control (RS-422), SDI out, SD composite, Genlock, Aux out		
Video Output	HD-SDI (embedded audio) BNC output x 1 (receptacle unit) SD analog composite BNC output x 1		
Genlock Input	BNC (receptacle unit) (tri-level/black burst)		
Operating Temperature	5°C to 40°C, less than 90% humidity (no condensation)		
Wind Velocity-Resistance	Normal Operation: 0~55m / s Operation Possible: 55 ~ 78m / s * Non Destruction: 78 ~ 134m / s		
Noise	NC55 below		
Power Source	DC10.5~15V, 80W		
Dustproof Waterproof Efficiency	IP45		
Image Sensor	1/3" CMOS x 3 (HD CMOS PRO)		
Range Of Focal Length / F No.	f=4.1-73.8mm / F1.6-2.8		
Zoom Ratio	18x Optical Zoom (1.5x digital extender)		
Dimensions (W x D x H) (Including Camera & Lens)	15.19x13.2x15.35 in. (386x337x390 mm)		
Weight (Including Camera & Lens)	37.4 lbs (Approx. 16.9kg)		

*Some functions may be limited depending on operating environment.

Learn with Canon In Person

- Hands-on, in-person learning
- Led by accomplished photographers including Canon Explorers of Light
- Offered in beautiful locations across the country
- Test-drive your Canon dream gear



Learn with Canon Online

Free Online Learning

- Get inspired with free, easily accessible online content
- Comprehensive resources including tips and tricks, tutorial videos, downloadable guides and more
- Regularly updated with new content for all skill levels



Interactive Online Classes

- Immersive courses help you advance to the next level of photography
- Self-paced learning through videos, interactive content, PDF guides and more
- Hosting by industry experts on a variety of topics
- Get stuck? Canon Support will personally answer your questions



usa.canon.com/canonlivelearning



usa.canon.com/learn



usa.canon.com/onlinelearning



CUSTOMER SATISFACTION

Canon is committed to total customer satisfaction. In order to optimize customer satisfaction, Canon's aim is to support users by developing new lens technologies, high-quality technical service systems, and other sales support.

Canon's U.S.A. Service & Support Network

CANON OFFERS PROFESSIONAL SERVICE AND REPAIR FOR **BROADCAST & CINEMA LENS** CUSTOMERS IN THE FOLLOWING REGIONS:

- 🌔 BURBANK, CA
- 🍋 COSTA MESA, CA
- 🌔 ITASCA, IL
- lyndhurst, nj
- MISSISSAUGA, ON
- SMEXICO CITY, MX
- 🌕 RIO DE JANEIRO, BR
- SANTIAGO, CL
- 🌔 SÃO PAULO, BR

CANON OFFERS A VAST NETWORK OF SERVICE & SUPPORT FACILITIES THROUGHOUT THE AMERICAS, INCLUDING WORLD CLASS TECH SUPPORT AND FACTORY-LEVEL REPAIR SERVICE:



- 🌔 CHESAPEAKE, VA (CANON TECHNICAL SUPPORT)
- ALBUQUERQUE, NM (CANON TECHNICAL SUPPORT)

SUPPORT MATTERS

Join The Growing Ranks of Pros That Rely on Canon Professional Service, Support and Education.

Focused on Professionals

Since 1958, Canon has been delivering world-class service & support to the broadcast industry offering customized solutions for medium and large organizations that own extensive quantities of Canon Imaging products.

BROADCAST LENS SERVICES

- On-site service available
- Fast repair, minimal downtime
- Direct, personal support from industry experts Nationwide service network
- ✓ State-of-the-art facilities
- Customized services for unique needs

For more information, call 1-800-423-LENS

(60 YEARS INNOVATION

What Level of Canon Professional Services is Best for My Needs?

Canon Professional Services (CPS) membership qualification is determined by the equipment you own.

	SILVER	GOLD	PLATINUM	CINEMA
Typical Member Equipment	1 DSLR & 1 EF Lens	2 DSLRs & 2 EF Lenses	2+ DSLRs & 3+ EF/L Lenses	C300 or Higher
Exclusive Member Hotline ¹ Technical Support and Member Services	~	~	~	~
Repair Discounts	No	20% OFF	30% OFF	30% OFF
Expedited Repair Services ²	Standard	~	~	~
Repair & Evaluation Loan Equipment ³ Priority Access for Platinum Members	No	~	~	~
Equipment Maintenance Service⁴ Number of DSLR or Lenses (per year)	No	5/year	10/year	10/year
CPS Lounge Services at Shows and Media Events	v	v	 ✓ 	~
Discounts for Canon Live Learning Events	No	~	~	~



See Repair Turnaround Time under Plat tem twice for the lifetime of the p nt Digital SLR Mainte





In TV Ontics Since 195

usa.canon.com/aboutcps