Pro-video Lenses & Remote Control Lenses

- Canon offers a variety of Pro-video ENG lenses that incorporate Canon's original IFpro, internal focusing system (refer to page 8).
- The Canon Remote Control Series offers a wide variety of lenses and accessories that have been designed for various applications such as broadcasting, teleconference, distance learning and other remote control purposes. The lenses provide quiet and fast servo control of Zoom, Focus and Iris.
- Now, all IFpro ENG lenses are equipped with Canon's exclusive shuttle shot function and have become even more useful.



Pro-video ENG Lenses



Remote Control Lens for Pro-video use



Remote Control Lens for Broadcast Use

Pro-video ENG Lenses

		IFpro	IFpro	IF pro	IFpro
		C			
		YJ20x8.5B KRS	YJ20x8.5B IRS	YJ13x6B KRS	YJ13x6B IRS
Zoom Ratio		20x	20x	13x	13x
Image Size		2/3"	2/3"	2/3"	2/3"
Built-in Extender		_	2.0x	_	2.0x
Range of Focal Len (with Extender)	gth	8.5~170mm	8.5~170mm 17~340mm	6~78mm	6~78mm 12~156mm (2.0x)
Maximum Relative (with Extender)	Aperture	1:1.8 at 8.5~113.3mm 1:2.7 at 170mm	1:1.8 at 8.5~113.3mm 1:2.7 at 170mm 1:3.6 at 17~226.7mm 1:5.4 at 340mm	1:2.0 at 6~58mm 1:2.7 at 78mm	1:2.0 at 6~58mm 1:2.7 at 78mm 1:4.0 at 12~116mm 1:5.4 at 156mm (2.0x)
Angular Field of View (with Extender)	4:3 Aspect Ratio (8.8x6.6mm)	54.7°x42.4° at 8.5mm 3.0°x2.2° at 170mm	54.7°x42.4° at 8.5mm 3.0°x2.2° at 170mm 29.0°x22.0° at 17mm 1.5°x1.1° at 340mm	72.5°x57.6° at 6mm 6.5°x4.8° at 78mm	72.5°x57.6° at 6mm 6.5°x4.8° at 78mm 40.3°x30.8° at 12mm 3.2°x2.4° at 156mm
M.O.D from Lens Fi	ront	0.9m(10mm with Macro)	0.9m(10mm with Macro)	0.4m(10mm with Macro)	0.4m(10mm with Macro)
Object Dimensions at M.O.D (with Extender)	4:3 Aspect Ratio (8.8x6.6mm)	85.2x63.9cm at 8.5mm 4.4x3.3cm at 170mm	85.2x63.9cm at 8.5mm 4.4x3.3cm at 170mm 42.6x32.0cm at 17.0mm (2.0x) 2.2x1.7cm at 340mm	68.1x51.1cm at 6mm 5.0x3.8cm at 78mm	68.1x51.1cm at 6mm 5.0x3.8cm at 78mm 34.1x25.6cm at 12mm 2.5x1.9cm at 156mm
Approx.Size(WxHx	L)	163.3x103x170.4mm	163.3x103.0x195.4mm	165.4x105.1x211.7mm	165.4x105.1x234.8mm
Approx.Mass		1.17kg (2.58lbs)	1.39kg (3.06lbs)	1.54kg (3.39lbs)	1.74kg (3.83lbs)
Macro		Yes	Yes	Yes	Yes
SHUTTLE SHOT		Yes	Yes	Yes	Yes
Reference: The fo	bllowing is the lens a	ingle (without Shrinker) in the 4:3 mode	of switchable cameras as explained on pa	ge 9.	
Angular Field of View (with Extender)	4:3 mode of Most Switchable Cameras (7.2x5.4mm)	45.9°x35.2° at 8.5mm 2.43°x1.82° at 170mm	45.9°x35.2° at 8.5mm 2.4°x1.8° at 170mm 23.9°x18.0° at 17.0mm 1.2°x0.9° at 340mm	61.9°×48.5° at 6mm 5.29°x3.97° at 78mm	61.9°x48.5° at 6mm 5.29°x3.97° at 78mm 33.4°x25.4° at 12mm 2.64°x1.98° at 156mm

Crossover Solutions for 2/3" Pro-video YJ20x8.5B

(Please refer to page 9 for details about Switchable cameras and Crossover technology.) Canon has developed two affordable optical solutions to accommodate the increasing number of 16:9/4:3 switchable 2/3" Pro-video cameras.



The first solution is the W80Y-85 Crossover Adaptor, a specially designed compact front mounted wide converter for the YJ20x8.5B/YJ19x9B, which makes the master lens wider by a factor of 0.8x. When you use the W80Y-85 on the YJ20x8.5B/YJ19x9B in the 4:3 mode of a switchable camera, it performs the Crossover function restoring the tele-side shifted image to a normal field of view as would be found on a conventional 4:3 camera. There is no light loss when using the W80Y-85. (The M.O.D becomes 0.58m)

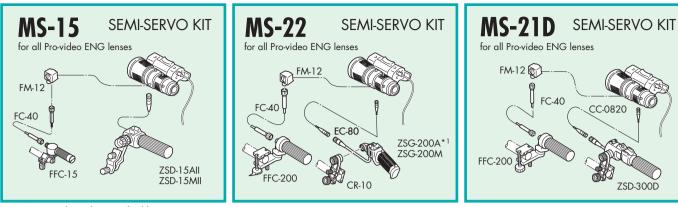


The second solution is the YJ20x8.5B VRS which has a built-in "Shrinker". When the "Shrinker" is in place, the tele-side shifted image is restored to the normal field of view as would be found on a conventional 4:3 camera. The VRS "Shrinker" performs no function in the 16:9 mode while the W80Y-85 is usable in both the switchable 4:3 mode and the16:9 mode.

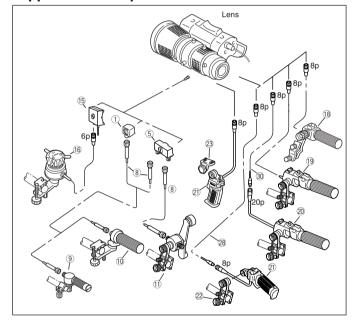


Control Accessories for Pro-video ENG Lenses and HDgc (KRS) Lenses

Recommended Kit Configuration



*A or M types, depends on applicable camera. **Applicable Component Detail**



<i>"</i>	11.5		0005
#	Unit	Description	CODE
1	FM-12	Flex Focus Module	1824A012
5	FM-70	Flex Dual Module	0002T071
8	FC-40	Flex Cable	1824A010
9	FFC-15	Flex Focus Controller	1824A024
10	FFC-200	Flex Focus Controller	1824A014
1	FZC-100	Flex Zoom Controller	1824A021
15	FPM-77	Focus Positional Servo Module	1824A020
16	FPD-400	Focus Positional Demand (%1)	1824A018
18	ZSD-15A Ⅱ /M Ⅱ	Zoom Demand (%1) A	1824A070
	(A or M types, de	1824A071	
19	ZSD-300A/M	Zoom Demand (%1) A	1824A066
	(A or M types, de	pends on applicable camera) M	1824A067
20	ZSD-300D	Zoom Demand	1824A123
21)	ZSG-200A/M	Zoom Servo Grip (%1) A	1824A068
	(A or M types, de	1824A069	
22	CR-10	Clamper	1824A007
23	GA-70	Grip Adapter	0018T531
28	EC-80	Zoom Extension Cable (8P)	1824A009
30	CC-0820	Conv. Cable (8pM-20pF)	1824A127

(%1) ZSD-15AII, ZSD-300A/M, ZSG-200A and FPD-400 is not available

Applicable Kit Detail

	Zoom		Focus	
Kit Name	System	Component	System	Component

for KRS/IRS/VRS Type of Pro-video ENG Lenses

Zoom Servo		ZSD-15	18**		
Only		ZR-1	19		
-		ZR-2(A)	2) 22 28		
		ZR-2(B)	2) 23*		
Semi-Servo	MS-15	ZSD-15	18**	FRC-15	1 8 9**
	MS-21	ZR-1	19	FR-2	1 8 10
	MS-21D	ZR-1D	20 30	FR-2	1 8 10
	MS-22	ZR-2(A)	2) 22 28	FR-2	1 8 10
Full Servo		ZR-1	19	FPS-4	15 16*
		ZR-2(A)	2) 22 28	FPS-4	15 16*
Full Manual	FZC-1	FZC-1	5*8 1	FR-2(w/o①)	8 10

*(5) (6)&(2) are not applicable to YH14x7.3 and YH16x7. **In USA,(1)) & (9) are available only as MS-15 kit configuration and not as individual product.

ZSD-300D

Recommended Kit Configuration for the Pro-video ENG lenses.

Remote Control Lens Series

The Canon Remote Control Series offers a wide variety of lenses and accessories that have been designed for various applications such as broadcasting, teleconference, distance learning and other remote control purposes. The lenses provide quiet and fast servo control of Zoom, Focus and Iris.

Broadcast Applications :



	HJ18ex28B ITS-ME	HJ22ex7.6B ITS-ME	HJ17ex7.6B ITS-ME	HJ14ex4.3B ITS-ME
Zoom Ratio	18x	22x	17x	14x
Image Size	2/3″	2/3″	2/3″	2/3″
Built-in Extender	2.0x	2.0x	2.0x	2.0x
Range of Focal Length (with Extender)	28~500mm 56~1000mm (2.0x)	7.6~168mm 15.2~336mm (2.0x)	7.6~130mm 15.2~260mm (2.0x)	4.3~60mm 8.6~120mm (2.0x)

HDTV/SDTV	KJ17ex7.7B ITS-ME	SDTV J22ex7.6B ITS-ME	J11ex4.5B ITS-ME
Zoom Ratio	17x	22x	11x
Image Size	2/3″	2/3″	2/3″
	0.0	2.0x	2.0x
Built-in Extender	2.0x	2.0x	2.0X

•Please refer to page 22-25 for more detailed specifications.

*The 2X extender of ITS-ME model is manually operated. ITS-RE model which has a motorized 2X extender is also available.

Pro-video Applications :

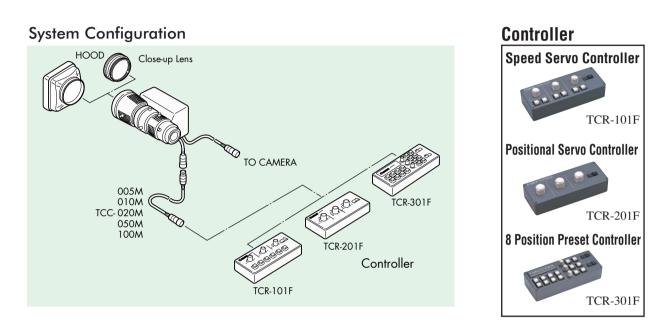
Pro-video Applica	Pro-video Applications :							
HDTV/SDTV	Бас	БС	БС					
	KJ20x8.5B KTS	KH19x6.7-II KTS*1	KT20x5B KTS					
Zoom Ratio	20x	19x	20x					
Image Size	2/3″	1/2″	1/3″					
Built-in Extender	—	—	_					
Range of Focal Length	8.5~170mm	6.7~127mm	5~100mm					

SDTV			
	YJ20x8.5B ITS-RE	YJ20x8.5B KTS	YJ13x6B KTS
Zoom Ratio	20x	20x	13x
Image Size	2/3″	2/3″	2/3″
Built-in Extender	2.0x	_	
Range of Focal Length (with Extender)	8.5~170mm 17~340mm (2.0x)	8.5~170mm	6~78mm

*1 Specifically designed for Sony HDC-X300/X310.

Control Accessories for Remote Control Lenses

The Canon Remote Control TV Lenses and standard controller system are engineered to satisfy your image capture needs. These broadcast quality products can be used in applications which differ from typical video production applications, such as fast and quiet servo operations. The Canon Remote Control TV Lenses accept 3 types of Canon standard controllers, as well as the standard remote control cables, which are designed to provide different types of zoom, focus and iris remote control. These lenses are also available with a simple interface for use with custom controllers.



Close-up Lens (not available for HJ18ex/HJ14ex)

Four types (82CL-UP800H / 82CL-UP1300H / 105CL-UP900H / 105CL-UP800HD) are available. *Please refer to page 42 for the applications

Remote Controller

Three types (TCR-101F, TCR-201F, TCR-301F) are available.

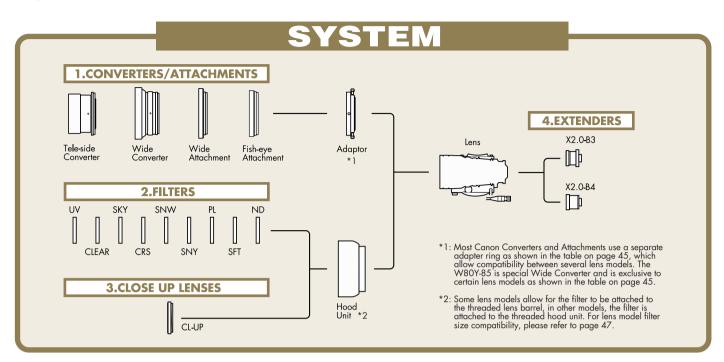
Connecting Cable

5m, 10m, 20m, 50m and 100m cables are available. Maximum cable length is 150m by connection of these cables.

External Extender (For 2/3" Lens Only)

A 2X extender is available for telephoto shooting. For the ITS-RE model of the Broadcast Remote Control Lenses and for the YJ20x8.5B ITS, the 2x extender is motorized and can be remote controlled. *Please inquire to Canon Sales Office for extender remote control interface.

Optical Accessories for SDTV and HDTV ENG/EFP Lenses



1.CONVERTERS/ATTACHMENTS

TELE-SIDE CONVERTER



- •Focal length is shifted to the telephoto side by 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 2.25 times that of the original lens.

	M.O.D	Eclipse Point
HJ22ex7.6B	1.9m	f:85mm
KJ17ex7.7B	1.35m	f:60mm
YJ20x8.5B	2.00m	f:80mm

WIDE ATTACHMENT

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

Change in focal length

	Master Lens	With Wide Attach.
HJ22ex7.6B	7.6-168mm	5.7mm
KJ17ex7.7B	7.7-131mm	5.8mm
YJ20x8.5B	8.5-170mm	6.4mm

WIDE CONVERTER

- •Focal length becomes wider by a factor of 0.8x that of the original lens with the W80 / W80Y-85.
- •F No. of the original lens is not affected.
- •The minimum object distance becomes 0.64 times with the W80 / W80Y-85.

Change in focal length

	Master Lens	With Wide Con.
HJ22ex7.6B	7.6-168mm	6.1-134mm
KJ17ex7.7B	7.7-131mm	6.2-104.8mm
YJ20x8.5B	8.5-170mm	6.8-136mm

FISH-EYE ATTACHMENT



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

Change in focal length

	•	
	Master Lens	With Fish-Eye
HJ22ex7.6B	7.6-168mm	4.6mm
KJ17ex7.7B	7.7-131mm	4.6mm
YJ20x8.5B	8.5-170mm	5.1mm

[Applica	ations of SDTV a	and HDTV	Adaptor	Type Co	nverters /	Attachme	nts]		
				APPLICABLE LENS					
	CONVERTER/ ATTACHMENT TYPE	MODEL NAME	CODE	YJ20x8.5B YJ19x9B YH19x6.7 KJ20x8.5B*1 KH20x6.4*1 KT20x5*1	KJ17ex7.7B*1 KJ16ex7.7B*1 KJ20x8.5B*1 KH16ex5.7*1 KH20x6.4*1 KT20x5*1 J17ex7.7B J17ax7.7B YJ20x8.5B YJ19x9B YH19x6.7	HJ17ex7.6B KJ17ex7.7B KJ16ex7.7B KJ20x8.5B KH16ex5.7 KH20x6.4 KT20x5	J22ex7.6B J21ax7.8B KJ21ex7.7B*1 KH21ex5.7*1		
	<u> </u>	Front Lens	Diameter	φ.	85mm		<i>\$</i> 9	8mm	
		Т15-Ⅲ	1823A005		•				
Tele-side		T15HD	0025T799						
Converter		Adaptor85II	1824A002	,					
		Adaptor98II	1824A004						
	*2	W80Y-85	1823A009						
		₩80- Ш В	1823A006						
Wide Converter		W80HD	1823A094						
	θ	Adaptor85II	1824A002	,					
		Adaptor98II	1824A004						
		WA75-II	1823A008						
Wide		WA75HD	1823A095						
Attachment		Adaptor85II	1824A002						
	~F	Adaptor98II	1824A004						
		FEA-ⅢB	1823A011		•				
Fish-eye		FEA-HD	1823A099						
Attachment	θ	Adaptor85II	1824A002						
		Adaptor98II	1824A004						

LCV-41E LCV-20E

*1 The HD quality accessories offer higher optical performance.
*2 The drawing is an image of the W80-IIIB.
•When purchasing, please specify model name of both Body and Adaptor.
•It is possible to use Body and Adaptor in different combinations. But it is impossible to use in combinations not shown in above table.
•Focus servo operation is possible with IF lenses only.

[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. Image Size Conversion

and the second		Indge Size Conversion			
	Converter	Lens *3	Camera	Shift Ratio to Telephoto Side	Electronic Conversion
and the second s	LO-32BMT	2/3" B4 Mount	1/2" SONY *4	approx. 1.4x	-
LO-32BMT	LCV-40B	2/3" B4 Mount	1/2" Standard Mount *5	approx. 1.4x	-
LCV-40B LCV-42T	LCV-42T	2/3" B4 Mount	1/3" Standard Mount	approx. 1.8x	-
	LCV-41E	2/3" B4 Mount	SONY PMW-EX3	approx. 1.4x	Lens Cable(12pin) → EX3 Hot Shoe(14pin)
Contraction of the second	LCV-20E	1/2" *6	SONY PMW-EX3	-	Lens Cable(12pin) → EX3 Hot Shoe(14pin)
	*3 The conve	rters are to be used with le	nses weighing less then 2.0kg (4.4	1lbs)	

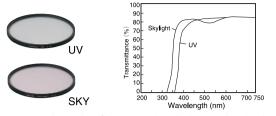


*4 SONY's Hot Shoe mount camera, excluding PMW-EX3
 *5 1/2" Camera of standard type mount (Panasonic, JVC, Grass Valley)
 *6 Only applicable to KH10ex/KH16ex/KH21ex. The other 1/2" mount lenses are not available.

Optical Accessories

2.FILTERS

UV/CLEAR/SKY LIGHT FILTER



- •A UV (ultraviolet) filter is nearly colorless. It absorbs shortwavelength ultraviolet rays that the naked eye cannot see.
- •A Skylight Filter has a light pinkish color. Used when shooting on clear days, it removes ultraviolet, and prevents natural light from giving a bluish-green cast to shaded foliage etc.
- •These filters are also advisable to protect the front lens surface.

POLARIZED LIGHT FILTER



•A polarizer is used to intercept light reflected from the surface of water or glass.

•A polarizer is screwed into the threads of the hood, turned, and stopped in the position in which the reflected light is removed.

SOFTON FILTER

- •A Soft-focus Filter has a mat-like surface that imparts a soft, misty effect to the entire picture.
- •Soft-focus Filters are frequently used for lyric scenery shots.

CROSS/SNOW CROSS/SUNNY CROSS FILTER



•A Cross Filter creates a cross or star of light by scattering rays from a strong light source in the subject in a radial pattern. The brighter and more pointlike the subject is, the better the effect is. Cross Filters are often used to enhance night scenery or stage show broadcasts.

<Types of Cross Filter>

- •Cross Filter ; Scatters light in a four-pointed cross.
- •Snow Cross Filter ; Scatters light in a six-pointed star.
- •Sunny Cross Filter ; Scatters light in an eight-pointed star.

ND4/ND8 FILTER



- •An ND (neutral density) Filter uniformly reduces light of all wavelengths which enters a lens.
- •It is used when the subject is too bright for the light to be adjusted by the diaphragm alone.
- •An ND Filter is also effective to create a shallow depth of field.

ND filter type	Transmittance	Density
ND4	25%	0.6
ND8	12.5%	0.9

3.CLOSE-UP LENSES

CLOSE-UP LENS

- •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 = $fc \ge S / (fc + S)$
 - fc= Focal length of the close-up lens
 - S= M.O.D.of the master lens

Imaging range for J17ex7.7B, and YJ20x8.5B with close-up lenses

		82CL-UP800H				82CL-UP1300H			
KJ17ex7.7B		Tele end : 131mm		Wide end : 7.7mm		Tele end : 131mm		Wide end : 7.7mm	
(16:9)	Focusing Scale(mm)	∞	0.6	œ	0.6	∞	0.6	œ	0.6
	Object Distance(mm)	800	343	800	343	1300	411	1300	411
	Object Dimensions(mm)	58x33	24x14	989x556	376x212	95x53	29x16	1634x919	455x256
YJ20x8.5B		Tele end	: 170mm	Wide end	l : 8.5mm	Tele end	: 170mm	Wide end	: 8.5mm
(4:3)	Focusing Scale(mm)	∞	0.9	œ	0.9	∞	0.9	∞	0.9
	Object Distance(mm)	800	420	800	420	1300	530	1300	530
	Object Dimensions(mm)	41x31	20x15	816x609	390x293	67x50	26x20	1341x1006	494x371

Mode	Code	APPLICABLE LENSES
82CL-UP800H	1823A041	J17ex7.7B, J17ax7.7B, YJ20x8.5B, YJ19x9B, KJ17ex7.7B, KJ16ex7.7B, KJ20x8.5B, KH16ex5.7, KH20x6.4, KT20x5
82CL-UP1300H	1823A042	J17ex7.7B, J17ax7.7B, YJ20x8.5B, YJ19x9B, KJ17ex7.7B, KJ16ex7.7B, KJ20x8.5B, KH16ex5.7, KH20x6.4, KT20x5
105CL-UP900H	1823A043	J22ex7.6B, J21ax7.8B, KJ21ex7.6B*, KH21ex5.7*
105CL-UP800HD	1823A096	HJ22ex7.6B, HJ21ex7.8B, HJ17ex7.7B, KJ21ex7.6B, KH21ex5.7
* The HD quali	ty accessori	es offer higher optical performance.

FILTER TYPE	MODEL NAME	CODE	HJ18ex28B HJ21ex7.5B HJ21x7.5B HJ14ex4.3B HJ11ex4.7B J11ex4.7B J11ex4.5B J11ax4.5B KJ10ex4.5B KJ10ex3.6	HJ40x14B HJ40x10B	J35ex15B J35ex11B J33ax15B J33ax11B H33ax11 PH33ax8.5B	CABLE LENSES HJ18x7.8B KJ13x6B KH13x4.5 YJ13x6B YJ12x6.5B YH12x4.8	HJ22ex7.6B HJ21ex7.8B HJ21x7.8B HJ17ex7.7B J22ex7.6B J21ax7.8B KJ21ex7.6B KH21ex5.7	HJ17ex7.6B J17ex7.7B KJ16ex7.7B KH16ex5.7 KJ20x8.5B KH20x6.4 KT20x5 YJ20x8.5B YJ19x9B YH19x6.7	YH16x7
	Hood Unit T	hread Size	127mm P0.75			105mm P1	105mm P1		82mm P0.75
	Lens Barre			127mm P0.75	125mm P1		94mm P1	82mm P0.75	72mm P0.75
	UV/127P0.75	1823A083							
u v	UV/105P1	1823A022					•		
	UV/94P1	1823A021					•		
	UV/82P0.75	1823A030						•	•
Clear	CL/127	1823A093							
Clear	CL/125	1823A044							
Sky Light	SKY/105P1	1823A023							
	SKY/82P0.75	1823A031							
	CRS/127P0.75	1823A085	•	•					
Cross	CRS/105P1	1823A024							
	CRS/82P0.75	1823A032							
	SNW/127P0.75	1823A087							
Snow Cross	SNW/105P1	1823A047					•		
	SNW/82P0.75	1823A034						•	•
	SNY/127P0.75	1823A088							
Sunny Cross	SNY/105P1	1823A025							
	SNY/82P0.75	1823A033						•	•
	PL/127P0.75	1823A090							
Polarized Light		1823A028							
U	PL/82P0.75	1823A038							
Softon	SFT/127P0.75	1823A089							-
	SFT/105P1	1823A027							
	SFT/82P0.75	1823A037						•	
	ND8/127P0.75	1823A086	•						
	ND4/82P0.75	1823A035						•	•
ND	ND8/105P1	1823A026							
	ND8/82P0.75	1823A036				-			



4.EXTENDERS

•An extender X2.0-B4 is mounted between the camera and the lens to enlarge the image of the subject.

 $\bullet It$ doubles the focal length of the master lens, making it into a more telephoto lens.

●The 2.0x Extender also doubles the F-number.

	Master Lens	With Extender
YJ20x8.5B F-number	8.5-170mm	17-340mm
F-number	1.8-2.7	3.6-5.4
* 0 1 (0 /0" 1		

*Only for 2/3" lenses

Mode	Code	APPLICABLE LENSES
X2.0-B3	1823A001	Applicable to all B3 type mount Canon 2/3" lenses.
X2.0-B4	1823A002	Applicable to all B4 type mount Canon 2/3" lenses.



North & South America

Canon U.S.A., Inc. Broadcast and Communications Div. (Headquarters) 65 Challenger Road, Ridgefield Park, NJ 07660 Tel:(201)807-3300 / (800)321-4388 Fax:(201)807-3333 Email:bctv@cusa.canon.com http://www.canonbroadcast.com/ Chicago

Chicago 100 Park Blvd. Itasca, IL 60143 Tel:(630)250-6236 Fax:(630)250-0399

Atlanta 5625 Oakbrook Pkwy. Norcross, GA 30093 Tel:(770)849-7890 Fax:(770)849-7888

Los Angeles 15955 Alton Parkway Irvine, CA 92618 Tel:(949)753-4330 Fax:(949)753-4337

Dallas 3200 Regent Blvd. Irving, TX 75063 Tel:(972)409-8871 Fax:(972)409-8869

Latin America Tel:(954)349-6975 Fax:(201)807-3333

Canada Canon Canada, Inc. Broadcast and Communications Div. 6390 Dixie Road Mississauga, Ontario, L5T 1P7, Canada Tel:(905)795-2012 Fax:(905)795-2140

Europe/Africa/Middle East

Canon Europa N.V. Broadcast and Communications Div. Bovenkerkeweg 59-61 1185 XB Amstelveen Tel:+31(0)20-5458905 Fax:+31(0)20-5458203 Email:typrod@canon-europe.com http://www.canon-europe.com/tv-products

Australia Canon Australia Pty. Ltd. Optical Products Division 1 Thomas Holt Drive, North Ryde, NSW 2113, Australia Tel.+61(0)2-9805-2000 Fax.+61(0)2-9805-2444

China

Canon (China) Co., Ltd. Optical Products Division 15F Jinbao Building No.89 Jinbao Street Dongcheng District, Beijing 100005, China Tel:86-10-85139999 Fax:86-10-85139902 http://www.canon.com.cn

Asia/Japan

Canon Inc. (Broadcast Equipment Group) 23-10, Kiyohara-Kogyo-Danchi, Utsunomiya-shi, Tochigi-ken, 321-3298, Japan Tel:+81(0)28-667-8669 Fax:+81(0)28-667-8672 http://www.canon.com/bctt/



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The size and weight of all lenses within this brochure may vary according to the applicable camera models.
Specifications subject to change without notice

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