Canon

HJ17ex6.2B

PREMIUM STANDARD HDTV LENS: WIDER & CLOSER, BRINGS ADDITIONAL MOBILITY TO HD VIDEO PRODUCTION



HJ17ex6.2B HDXS





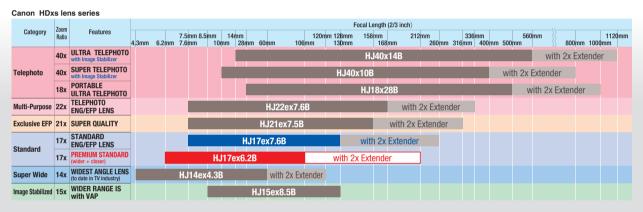
As HD continues to become the worldwide standard for broadcast TV production, there is an increasing need for versatility in HDTV lenses that enable more efficient production operations without sacrificing high picture quality. In particular, there is strong demand for lenses that combine superior wide-angle performance with sufficient telephoto range to boost the mobility of camera crews and make operations more efficient.

To fulfill the needs of users such as these, Canon has researched and developed the HJ17ex6.2B, embodying the uncompromising high-dimensional quality for which our products are known. The HJ17ex6.2B is fully equipped with the latest state-of-the-art Canon optical technologies, and serves as a highly innovative premium standard HDTV lens.

MAIN FEATURES

■ The HJ17ex6.2B represents a further advancement of the HDxs Series, already the premier series of HDTV lenses.

Offering optimum mobility, the HJ17ex6.2B premium standard HDTV lens is a new addition to the HDxs Series, Canon's premier HDTV lens lineup, with lenses covering a full range from Super Telephoto (1,120mm) to Super Wide (4.3mm). Professional users are now more able to select the appropriate lens for their expressive needs, and produce video with the high quality for which HDxs is renowned.



■ Shoot closer, shoot wider. Improved mobility for camera crews in diverse situations.

- When covering news stories on-site, camera crews must work with a limited supply of equipment and react rapidly to various changes in subject distance and focal length.
- The HJ17ex6.2B is capable of adapting flexibly to all manner of filming situations, whether shooting in close proximity to a subject or shooting close-ups of a subject from far away, without the need for changing lenses, thanks to its short M.O.D., extra-wide angle, 17x magnification, and built-in 2x extender.
- For production of documentaries, the HJ17ex6.2B enables vivid shooting even when ultra-close to the subject to make the scene come alive, or shooting in small rooms where distance from the subject cannot be attained,
- The HJ17ex6.2B is a single lens capable of flexible operation, enabling the improved versatility required by camera crews, maximum cost- and performance-efficiency for productions, and a wide range of expressive possibilities.

Superb optical performance. Wider focal length.

- · With focal lengths ranging from wide-end to tele-end, and at subject distances ranging from infinite distance to extreme closeup (in which case optical performance generally suffers), the HJ17ex6.2B minimizes optical aberration across the entire screen and exhibits superb optical performance throughout the field.
- The HJ17ex6.2B provides the same magnification (17x) as our well-established HDTV production lens, the HJ17ex7.6B, while achieving a wider focal length of 6.2mm.
- M.O.D. has been shortened by approximately 30% (0.4m) compared to the HJ17ex7.6B.



Closer distance to acquire same field of view Object Distance Object Distance 3 1m HJ17ex6.2B HJ17ex7.6B

PREMIUM STANDARD HDTV LENS: WIDER & CLOSER, BRINGS ADDITIONAL MOBILITY TO HD VIDEO PRODUCTION

Outstanding optical performance of the Canon HDxs Series

The HDxs Series makes optimum use of original Canon optical elements, UD (Ultra Low Dispersion) glass, large-diameter high-precision aspherical lenses and more, with their potential maximized through designs employing Canon's original "Power Optical System" optical design technology.

At the same time, the HDxs Series succeeds in suppressing ghosting and flaring by employing ray simulation technology in conjunction with original Canon spectral coating. Its amalgamation of advanced Canon optical technologies also minimizes curvature of field, comatic aberration, chromatic aberration of magnification, and axial chromatic aberration throughout the entire filed regardless of focal length or subject distance, stably exhibiting peak optical performance.



Specially designed optical lens elements

Newly Designed Ergonomic Drive Unit

■ Enhanced Digital Drive Unit

Information Display

Zoom Speed Volume in New Location

New Rubber Grip Support



The incorporation of miniature 16-bit, high resolution Rotary Encoder Devices into the new enhanced digital drive unit, has extended the features of the HJ17ex6.2B to include:

- · Precision control of all lens operations
- · Precise digital repeatability of zoom, focus and iris control that support innovative image creation
- Simple and direct digital integration into virtual studio systems
- Precision zoom control over a total speed range of 0.5 sec. to more than 5 min.

Moreover, Canon's unique Information Display provides easy, precise customization of the enhanced digital functions such as Shuttle Shot, Frame Preset and Speed Preset.



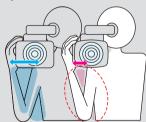


Exceptional High Optical Performance
High MTF, Minimized Chromatic Aberrations and Innovative Countermeasures against Ghosting and Flares

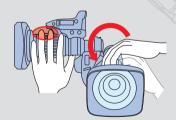
■Improved Operability & Reduced Operator Fatigue

Coupled with innovations in optical performance, is a totally new design of the digital drive unit. Refined by long-term market research and worldwide experience, Canon mobilized the latest in 3D CAD-CAM design to significantly improve the human tactile interface to the control of zoom, iris, and focus. Here are some results of Canon's research:

Reduced Physical Stress



By reducing the width of the drive unit, the palm of the camera operator's hand is positioned closer to the optical axis, thus reducing the degree of arm bend which in turn lessens physical stress during prolonged shooting.



The spacing between the focus ring and drive unit has been changed to avoid accidental interference with the drive unit while manipulating the focus control.

Ergonomic Design



The size and curvature size have been optimized to more comfortably fit in the palm of the operator's hand (a). Newly developed coatings improve the tactile interface between the use and the drive unit (b) together with the new Rubber Grip Support (c).

SPECIFICATIONS

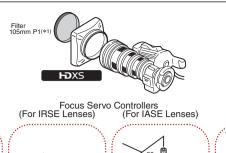
HJ17ex6.2B	NORMAL 16:9		SWITCHABLE 4:3 ^(*1)	
Built-in extender	1.0×	2.0×	1.0×	2.0×
Zoom Ratio	17×			
Range of Focal Length	6.2-106mm	12.4-212mm	6.2-106mm	12.4-212mm
Maximum Relative Aperture	1:1.8 at 6.2-65.8mm 1:2.9 at 106mm	1:3.6 at 12.4-131.6mm 1:5.8 at 212mm	1:1.8 at 6.2-65.8mm 1:2.9 at 106mm	1:3.6 at 12.4-131.6mm 1:5.8 at 212mm
Angular Field of View	75.5°×47.1° at 6.2mm 5.2°×2.9° at 106mm	42.3°×24.6° at 12.4mm 2.6°×1.5° at 212mm	60.3°×47.1° at 6.2mm 3.9°×2.9° at 106mm	32.4°×24.6° at 12.4mm 1.9°×1.5° at 212mm
Minimum Object Distance (M.O.D.)	0.4m (10mm with Macro)			
Object Dimensions at M.O.D.	73.3×41.2cm at 6.2mm 4.1×2.3cm at 106mm	36.7×20.6cm at 12.4mm 2.1×1.2cm at 212mm	54.9×41.2cm at 6.2mm 3.1×2.3cm at 106mm	27.5×20.6cm at 12.4mm 1.6×1.2cm at 212mm
Approx. Size	WxHxL=165.0x112.3x240.5mm			
Approx. Mass	IRSE 1.97kg (4.34lbs) / IASE 2.05kg (4.52lbs) ^(*2)			

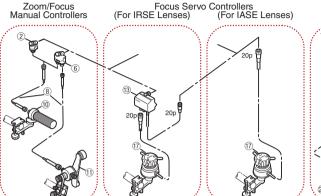
^{*1} Specifications apply to Most Switchable camera when set to 4:3 mode (sensor size of 7.2×5.4mm), without using an optical Shrinker.

'2 HJ17ex6.2B IRSE Zoom: Servo / Manual Focus: Manual

HJ17ex6.2B IASE Zoom: Servo / Manual Focus: Servo / Manual

ACCESSORIES

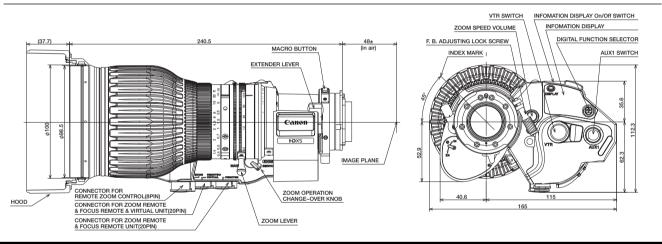




#	Unit	Description
2	FFM-100	Flex Focus Module
6	FFM-200	Flex Dual Module
8	FC-40	Flex Cable
10	FFC-200	Flex Focus Controller
11	FZC-100	Flex Zoom Controller
13	FPM-420D	Focus Positional Servo Module
17)	FPD-400D	Focus Positional Demand
20	ZSD-300D	Zoom Servo Demand
21	ZSG-200M	Zoom Servo Grip
22	CR-10	Clamper
28	EC-80	Zoom Extension Cable (8P)

(%1) For the optical accessories, the 105mm diameter P1 filters are applicable. The filters are to be attached to the lens hood. (UV/Cross/Snow Cross/Sunny Cross/Polarized Light/Solton/ND8) The optical converters and attachments are not applicable

DIMENSIONS



Zoom Servo Controllers

20p

North & South America Canon U.S.A., Inc. Imaging Technologies & Communications Group

Broadcast and Communications Sales & Marketing Division (Headquarters)

65 Challenger Road, Ridgefield Park, NJ 07660 Tel:+1(201)807-3300/(800)321-4388 Fax:+1(201)807-3333

Email:bctv@cusa.canon.com http://www.canonbroadcast.com/

Chicago

100 Park Blvd. Itasca, IL 60143 Tel:+1(630)250-6236 Fax:+1(630)250-0399

<u> Atlanta</u>

5625 Oakbrook Pkwy. Norcross, GA 30093 Tel:+1(770)849-7890 Fax:+1(770)849-7888

Los Angeles 15955 Alton Parkway Irvine, CA 92618 Tel:+1(949)753-4330 Fax:+1(949)753-4337

Dallas

3200 Regent Blvd. Irving, TX 75063 Tel:+1(972)409-8871 Fax:+1(972)409-8869

Latin America

Tel & Fax:+1(954)757-0980

Canada

Canon Canada, Inc. Broadcast and Communications Div

6390 Dixie Road Mississauga, Ontario, L5T 1P7, Canada Tel:+1(905)795-2012 Fax:+1(905)795-2140

Europe/Africa/Middle East Canon Europe Ltd

Broadcast Products Div. 3 The Square, Stockley Park Uxbridge Middlesex United Kingdom UB11 1ET Tel:+44 (0)20 8588 8140 Fax:+44 (0)20 8588 8603 ${\bf Email: tvprod@canon-europe.com}$

http://www.canon-europe.com/tv-products/ Australia Canon Australia Pty. Ltd.

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

Canon (China) Co., Ltd. Broadcast Equipment Products

15F Jinbao Building No.89 Jinbao Street Dongcheng District, Beijing 100005, China Tel:+86-10-8513-9999 Fax:+86-10-8513-9128 http://www.canon.com.cn

Asia/Japan Canon Inc. (ICP GROUP 5)

30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan Tel:+81(0)3-3757-7453 Fax:+81(0)3-3757-7086 http://www.canon.com/bctv

Distributed by

Specifications subject to change without notice.



http://www.canon.com/bctv