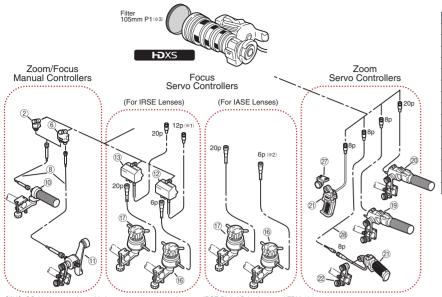
#### **ACCESSORIES**



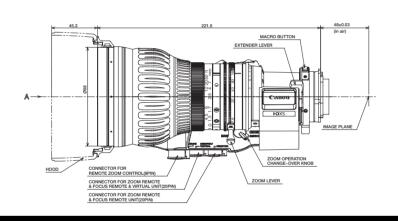
#	Unit	Description
2	FFM-100	Flex Focus Module
6	FFM-200	Flex Dual Module
8	FC-40	Flex Cable
10	FFC-200	Flex Focus Controller
(1)	FZC-100	Flex Zoom Controller
(12)	FPM-420	Focus Positional Servo Module
13)	FPM-420D	Focus Positional Servo Module
16)	FPD-400®4	Focus Positional Demand
17)	FPD-400D	Focus Positional Demand
19	ZSD-300M	Zoom Servo Demand
20	ZSD-300D	Zoom Servo Demand
21)	ZSG-200M	Zoom Servo Grip
22	CR-10	Clamper
27)	ZGA-500	Grip Adapter
28	EC-80	Zoom Extension Cable (8P)

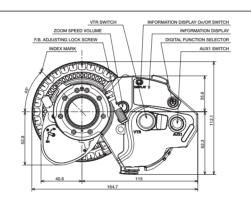
- (%2) CC-2006 conversion cable is necessary to connect between IASE Digital Drive Lens and FPD-400.

  (%2) CC-2006 conversion cable is necessary to connect between IASE Digital Drive Lens and FPD-400.

  (%3) For the optical accessories, the 105mm diameter P1 filters are applicable. The filters are to be attached to the threaded hood unit. (UV/ Clear/ Cross/ Snow Cross/ Sunny Cross/ Polarized Light/ Softon/ ND8) UV/94mm is also available for direct attachment to front of lens.
- (※4) FPD-400 is not available from Canon stock.

#### **DIMENSIONS**





### North & South America Canon U.S.A., Inc.

Broadcast & 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

#### 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. Bovenkerkerweg 59-61 1185 XB Amstelveen Tel:+31(0)20-5458905 Fax:+31(0)20-5458203 Email:tvprod@canon-europe.com http://www.canon-europe.com/tv-products

### Australia Canon Australia Pty. Ltd.

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

## China Canon (China) Co., Ltd.

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

Distributed by

Specifications subject to change without notice.

# Canon

# HJ22ex7.6B

EXPAND YOUR VIDEO CREATIVITY WITH CANON'S MULTIPURPOSE HD ENG LENS





PUB.0132W414 0904AB3.5 PRINTED IN JAPAN

# HJ22ex7.6B HDXS





Recent years have witnessed expansions in both HD production and the range of program genres. Within this environment the worldwide popularity of the HJ22ex7.6B lens as a flexible multipurpose lens exhibiting high optical performance and ease of operation has grown significantly. The combination of a generous 22x zoom ratio and a wide 7.6mm field of view meets numerous challenging production applications that include dramas, documentaries, sports, news etc.

A newly developed digital drive unit has further streamlined the lens ergonomics to further empower camera operator shooting flexibility.

The new drive unit will be identified with an "A" at the end of the model name - such as IRSE A or IASE A.

#### MAIN FEATURES

#### **High Specification in Compact Size**

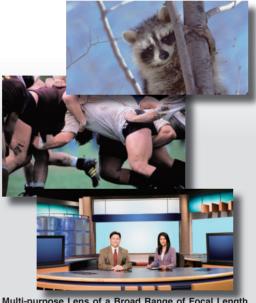
The focal range of 7.6mm to 167mm can be further extend to 334mm using the 2x range extender included in the lens. This highly flexible lens has been reduced in length to 221.5mm and in weight to 1.81 kg (IRSE A type) producing a remarkably compact package that supports a broad range of productions.

#### **Tight Control Over Optical Aberrations**

Close attention to managing a reduction in a variety of optical aberrations while also adopting an innovative new focusing system has produced an overall performance improvement over the predecessor model that benefits both HD ENG and general HD production.

#### **High Optical Performance**

Evolving design techniques, advanced optical materials and optical coatings, and continuing refinements to manufacturing processes have collectively contributed to the HJ22ex7.6B lens having very high optical performance and extended operational capabilities. Specifically these include a lowering of longitudinal chromatic aberration at the longer focal lengths, and curtailment of spherical and comatic aberrations. Adoption of new optical materials also afforded a reduction in curvature of field. The lens focusing system has also been improved over the conventional 2-group inner focus in terms of an improved resolution and contrast at the picture extremities especially at the telephoto side of the focal range



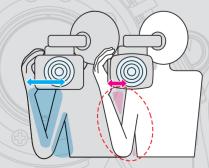
Multi-purpose Lens of a Broad Range of Focal Leng 7.6mm-167mm (15.2-334mm with 2.0x)

#### Improved Operability & Reduced Operator Fatigue

Coupled with innovations in optical performance, is a totally new design of the digital drive unit.

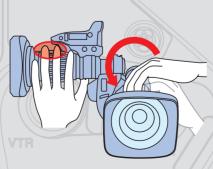
Refined by long-term market research and worldwide experience, Canon mobilized the latest in 3D CAD-CAM design to significantly improve the human tactile interface to the control of zoom, iris, and focus. Here are some results of Canon's research:

#### **Reduced Physical Stress**



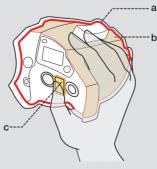
By reducing the width of the drive unit, the palm of the camera operator's hand is positioned closer to the optical axis, thus reducing the degree of arm bend which in turn lessens physical stress during control. prolonged shooting.

#### Improved Ease of Operation



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

#### **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 user and the drive unit (b) together with the new Rubber Grip Support (c).

#### **Enhanced Digital Drive Unit**

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 HJ14x to

- · 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.

#### **Enhanced Digital Functions**

#### Shuttle Shot

By memorizing any two focal lengths, the Digital Drive can automatically "shuttle" between the two points, moving in either direction.

#### Frame Preset

An angle of view can be preset in either of two memories and the lens will zoom at the highest speed or in a preset zoom speed to the preset position by pushing a simple

#### Speed Preset

A specific zoom speed can be preset in memory and it is possible to repeat the zoom speed as often as you like by pushing a simple button.

# 2 0v Extende amic Zoom Speed Range Ssec-5min from wide end to tele end) Low-Weight, High-Mobility











**Newly Designed Ergonomic Drive Unit** 



Multi-purpose Lens: Focal Length of 7.6-168mm (15.2-336mm with 2x)



Zooming in same speed

#### **SPECIFICATIONS**

HJ22ex7.6B	16:9		4:3	SWITCHABLE 4:3		
Built-in extender	1.0×	2.0×	1.0×	1.2×	2.4×	
Zoom Ratio	22×					
Range of Focal Length	7.6~168mm	15.2~336mm	6.3~139mm	7.6~168mm	15.2~336mm	
Maximum Relative Aperture	1:1.8 at 7.6~114.1mm 1:2.65 at 168mm	1:3.6 at 15.2~228.2mm 1:5.3 at 336mm	1:1.8 at 6.3~114.2mm 1:2.19 at 139mm	1:1.8 at 7.6~114.1mm 1:2.65 at 168mm	1:3.6 at 15.2~228.2mm 1:5.3 at 336mm	
Angular Field of View		35.1°×20.1° at 15.2mm 1.64°×0.92° at 336mm	60.1°×46.9° at 6.3mm 3.00°×2.25° at 139mm	50.7°×39.1° at 7.6mm 2.46°×1.84° at 168mm	26.6°×20.1° at 15.2mm 1.22°×0.92° at 336mm	
Minimum Object Distance (M.O.D)	0.85m (10mm with Macro)					
Object Dimensions at M.O.D			92.5×69.4cm at 6.3mm 4.25×3.19cm at 139mm			
Approx. Size	WxHxL=164.7x112.1x221.5mm					
Approx. Mass (IRSE A / IASE A)	1.81Kg ( 4.00 lbs) / 1.89Kg (4.17 lbs)					

HJ22ex7.6B IRSE A Zoom: Servo / Manual Focus: Manual HJ22ex7.6B IASE A Zoom: Servo / Manual Focus: Servo / Manual