Canon

HJ24ex7.5B

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





Canon has made numerous contributions to the broadcasting industry for more than 55 years by developing lenses that deliver the highest image quality. Aided by the strength of Canon's lens research and development, HD has gradually become the worldwide production standard.

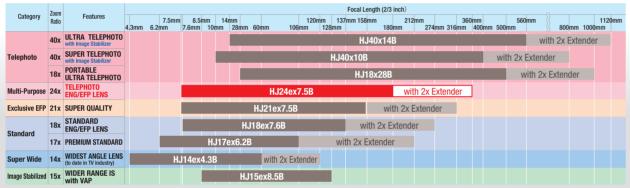
In over several decades of manufacturing portable HD zoom lenses for ENG and EFP, Canon HD lenses have earned enthusiastic support from customers the world over, due to their excellent specifications, superb optical performance, and long-term reliability.

Now, Canon has developed the HJ24ex7.5B that delivers dramatically better specifications than its popular predecessors and incorporates refinements that further advance optical performance.

In addition to the improvements in optical performance, the HJ24ex7.5B is even more compact and lightweight while providing a better-balanced center of gravity, and achieves dramatically improved operability and ease-of-use by incorporating a new type of Drive Unit.

Canon has brought together technology and knowledge accumulated over many years to create the HJ24ex7.5B HD portable telephoto zoom lens. Moving forward, Canon will continue refining its technology and developing even better products to enable customers to capture images of the very highest quality.

Canon HDxs lens series



MAIN FEATURES

World's widest angle and highest zoom ratio in its class (as of February 1, 2015)

The HJ24ex7.5B offers specifications that are a dramatic improvement over its predecessor: a focal range from 7.5mm at the wide end to 180mm at the tele end, along with a 24x zoom ratio. A breakthrough lens delivering the world's widest angle and highest zoom ratio in its class*, the HJ24ex7.5B is ideally situated for many applications, including news, sports, and

(*Among portable zoom lenses for 2/3" HD cameras with zoom ratios of 20x or more that are suitable for ENG-style shooting. Current as of February 1, 2015.)

■Advanced optical performance

Building on the outstanding optical performance of its predecessor, the new HJ24ex7.5B extends optical performance still further. It delivers a wider angle and higher zoom ratio, while at the same time providing excellent aberration correction over the entire zoom range for sharper and clearer images. The combination of excellent specifications and high image quality makes possible a broad range of expression.

■More compact and lightweight with better-balanced center of gravity

Compared with its predecessor, the HJ24ex7.5B is noticeably lighter. The center of gravity is closer to the mount, lessening strain on the hands and elbows of the camera operator. The ergonomic form factor creates a more user-friendly design that makes it easier to move the

The new lens is sure to satisfy professionals with its high-level combination of excellent specifications, enhanced optical performance, and improved usability.

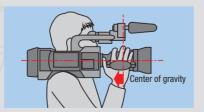
New Drive Unit

The HJ24ex7.5B incorporates a new and enhanced Drive Unit. The new high-performance encoder supports communication with 2/3" HDTV cameras equipped with aberration correction functionality, without initializing the lens. Three 20-pin connectors enable high-definition virtual video output even during full-servo operation. In addition, reduced power consumption and the new simplified display mode (Basic Mode) enhance operability.





Specially designed optical lens elements



FEATURES OF NEW DRIVE UNIT

■ Aberration Correction and Virtual Functions **Enabled without Lens Initialization**

To date, aberration correction functions have often been employed on 2/3" HDTV cameras for broadcast use. The new drive unit of the HJ24ex7.5B can output accurate lens position data from the moment the power is turned on. Additionally, Canon's newly developed high-performance encoder does not require initialization as earlier units did and this contributes to the quick start when shooting.

■Saved Power Consumption

The HJ24ex7.5B can operate even longer on battery power than its predecessor. Power consumption while the zoom, focus, and iris functions are not being operated has been reduced by approximately 20%. further enhancing the mobility of the camera operator.



■Simple Display Operations

Canon's unique display-based functions, which are highly regarded in the industry, have helped a variety of operations. We have listened to our customers, and a new simplified mode(Basic Mode) has brought the operation method even easier and closer to the ideal

More Advanced Virtual Operability and **More Precise Virtual Image Expression**

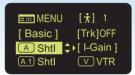
- The new drive unit uses three 20-pin connectors. It provides virtual pins even with the digital full servo controllers, thereby enabling more advanced operation
- Canon's new high-performance encoder is capable of extremely high-precision output. This simplifies calibration when composing virtual and live-action images, thus resulting in more accurate composites.



■Digital Functions

The Canon drive unit integrates a variety of operations, stored digitally, that can be manipulated using the display.

By memorizing any two focal lengths, the Canon drive unit can automatically "shuttle" between two points, moving in either direction. As an example, this function is effective for shots in which an operator wants to start from a wide angle and then zoom in rapidly on to an object.









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 with the push of a simple button

As an example, this function is effective for situations such as interview programs, where it is necessary to switch between bust shot and wide shot.

Preset	# # \$
\$Frame1 :	∢Focus▶
Frame2:	Zoom
ZSpeed:	800









Speed Preset A specific zoom speed can be preset in memory making it possible to repeat the zoom speed as often as you like with the push of a simple button. Using a preset speed when zooming in and zooming out contributes to create stable images, particularly with slow zooms







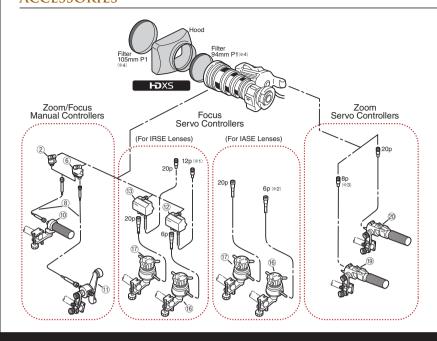




SPECIFICATIONS

HJ24ex7.5B	16:9 4:3			:3
Built-in Extender	1.0×	2.0×	1.0×	2.0×
Zoom Ratio		24x		
Range of Focal Length	7.5-180mm	15.0-360mm	7.5-180mm	15.0-360mm
Maximum Relative Aperture	1:1.8 at 7.5-120mm 1:2.7 at 180mm	1:3.6 at 15.0-240mm 1:5.4 at 360mm	1:1.8 at 7.5-120mm 1:2.7 at 180mm	1:3.6 at 15.0-240mm 1:5.4 at 360mm
Angular Field of View	65.2°×39.6° 3.1°×1.7°	35.5°×20.4° 1.5°×0.9	60.8°×47.5° 2.8°×2.1°	32.7°×24.8° 1.4°×1.1°
Minimum Object Distance (M.O.D.)	0.80m (10mm with Macro)			
Object Dimensions at M.O.D.	96.0×54.0cm at 7.5mm 4.1×2.3cm at 180mm	48.0×27.0cm at 15.0mm 2.1×1.2cm at 360mm	88.3×66.2cm at 7.5mm 3.8×2.9cm at 180mm	44.2×33.1cm at 15.0mm 1.9×1.4cm at 360mm
Approx. Size		WxHxL = 164.6×109.1×221.4mm		
Approx. Mass (IRSE S / IASE S)	1.78kg (3.92lbs) / 1.86kg (4.10lbs)			

ACCESSORIES

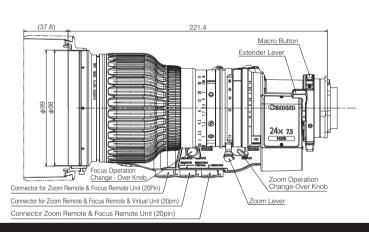


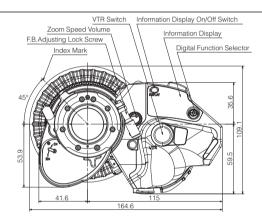
#	Unit	Description
2	FFM-100	Flex Focus Module
6	FFM-200	Flex Dual Module
8	FC-40	Flex Cable
10	FFC-200	Flex Focus Controller
11)	FZC-100	Flex Zoom Controller
12	FPM-420	Focus Positional Servo Module
(13)	FPM-420D	Focus Positional Servo Module
16	FPD-400 ^{®5}	Focus Positional Demand
17)	FPD-400D	Focus Positional Demand
19	ZSD-300M	Zoom Servo Demand
20	ZSD-300D	Zoom Servo Demand

- (%1) CC-2012 conversion cable is necessary to connect between IRSE Digital Drive Lens and FPM-420.

 (**2) CC-2006 conversion cable is necessary to connect between IASE
- Digital Drive Lens and EPD-400
- (3) CC-2008 conversion cable is necessary to connect between New Digital Drive Lens and ZSD-300M.
- (%4) 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 lens. An 105mm filter and a 94mm filter cannot be attached at once (**5) FPD-400 is not available from Canon stock.

DIMENSIONS





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