Canon

DIGISUPER 95 / DIGISUPER 95 TELE

XJ95x8.6B 8.6-820 1:1.7 XJ95x12.4B 12.4-1178 1:2.5

The XJ95x series provides versatile lensing options that deliver excellent specs and optical performance.

IMAGE STABILIZER AFS HDxs

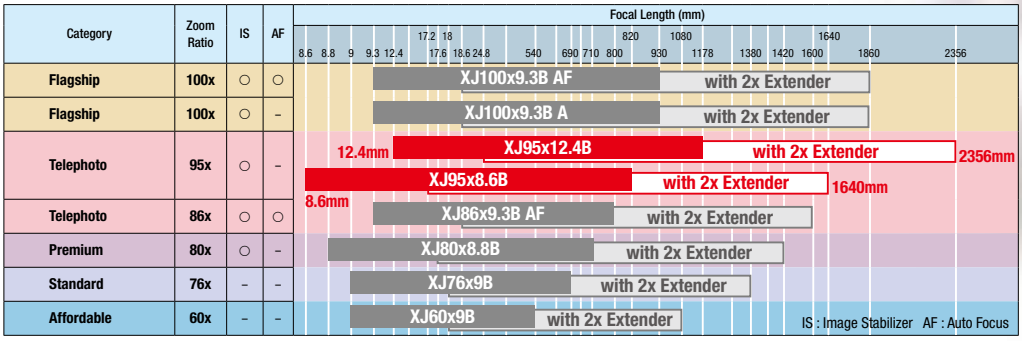
DIGISUPER 95 / DIGISUPER 95 TELE

XJ95x8.6B 8.6-820 1:1.7　　XJ95x12.4B 12.4-1178 1:2.5

The Global expansion of HDTV programming and production has heightened demand for HD lenses designed for live sports and other mobile location applications. Over the past decade, Canon has developed a series of telephoto lenses, including the XJ100x9.3B, XJ86x9.3B/13.5B, and the XJ95x8.6B combining wide-angle, telephoto, and high zoom ratio to meet the most demanding outside broadcast applications. These lenses have received an overwhelmingly positive reception from users the world over. In response to market demand for increased telephoto performance, Canon developed the XJ95x12.4B ultra-telephoto lens. Together with the XJ95x8.6B, they form XJ95x series.

Stronger Lineup

The XJ95x8.6B and XJ95x12.4B lenses can be used in tandem to achieve a wide focal length of 8.6mm and a telephoto focal length of 1,178mm (2,356mm with built-in extender). This empowers productions to capture more dynamic images than ever before. What's more, while the XJ95x12.4B substantially extends the focal length of the XJ95x8.6B, it maintains the same length and weight.



Main Features

From Wide Angle to Ultra Telephoto

The XJ95x series offers an enormous range of imaging possibilities that are impossible with conventional field lenses, thanks to the choice of XJ95x8.6B's 8.6mm wide angle to the ultra-telephoto XJ95x12.4B's 1,178mm (2,356mm with extender).
With this extensive image-framing latitude, the lenses can dramatically capture every possible on-site sensation, from the emotion of an entire crowded stadium to the facial expression of an individual player.

f = 8.6mm Angle image of XJ95x8.6B

f = 820mm Angle image of XJ95x8.6B

f = 1178mm Angle image of XJ95x12.4B

Incomparable Optical Performance

Canon's design and production technologies have been refined through more than 55 years of advanced R&D and extensive experience in broadcast lens development. The past decade especially has seen dramatic advances in powerful new 3D optical design tools, glass materials, and optical coatings.
Canon's mastery of computer-based 3D optical design techniques and use of the most contemporary optical technologies allow the XJ95x series to provide a wider angle of view, a higher zoom ratio, and unparalleled overall optical performance. Canon's proprietary large-diameter aspherical lens technology and exotic new glass materials effectively counter lateral chromatic aberration, monochromatic aberrations, and geometric distortion that have always been the particular challenge of large focal-length ranges. Significant reduction of these aberrations further enhance the resolution and contrast in a manner that contributes to the capture of images having superb picture sharpness across the16:9 HD image plane.

"Canon is the gold standard in the sports production industry. Our clients want to make sure everything works. Canon products are reliable and we depend on these products for images seen by hundreds of millions of people." - *Garrett Sullivan, Game Creek Video*

Even More Advanced Image Stabilization System

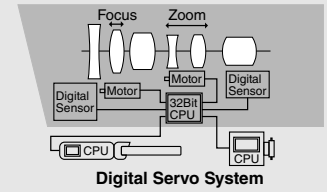
A persistent problem for telephoto lenses is image blurring at long focal lengths caused by the wind or slight vibrations transmitted through the stadium stand or tower. To minimize this sort of image blurring, the XJ95x series comes standard equipped with an improved optical shift-type image stabilizer. When the sensor inside the lens detects a vibration, the compensating optics are shifted at high-speed to instantly deflect the light rays in a direction that cancels out the vibration's effect on the image. A new sensor of the XJ95x series provides several improvements to Canon's already renowned image-stabilization performance.

Excellent Operability

The XJ95x series offers outstanding tracking capability due to its high-resolution encoders to faithfully reproduce the camera operator's intended movements, whether a slow zoom or a preset sequence. With multiple support for encoder outputs, analog outputs, and serial outputs, the XJ95x series can work with many kinds of virtual systems. It easily adapts to existing virtual systems because it comes standard equipped with 20-pin lens interface.

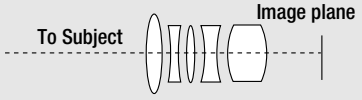
CAFS (Constant Angle Focusing System)

32-bit CPU calculates and controls the zoom when focusing to counteract "breathing" (phenomena where picture size/ angle of view changes when focusing) and has almost zero zoom effect.

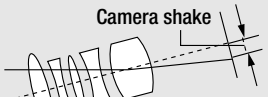


Digital Servo System

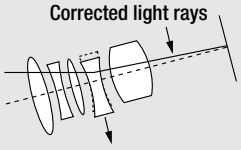
1. Lens when still.



2. Lens when jerked downward.

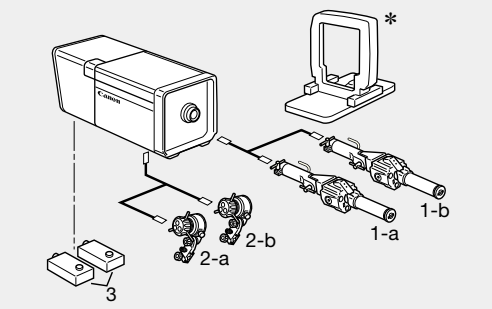


3. Counteraction by IS lens group.



Position of IS lens group after shifting

RECOMMENDED LENS SYSTEM

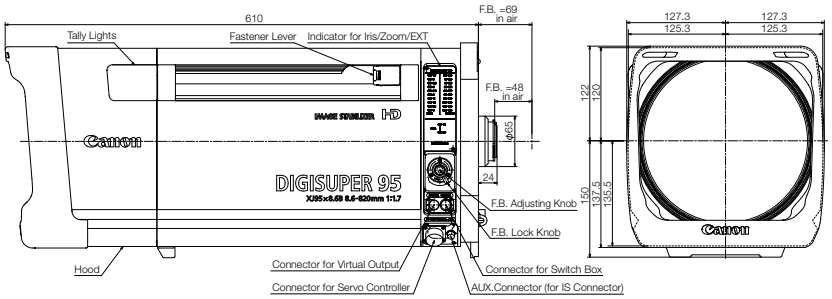


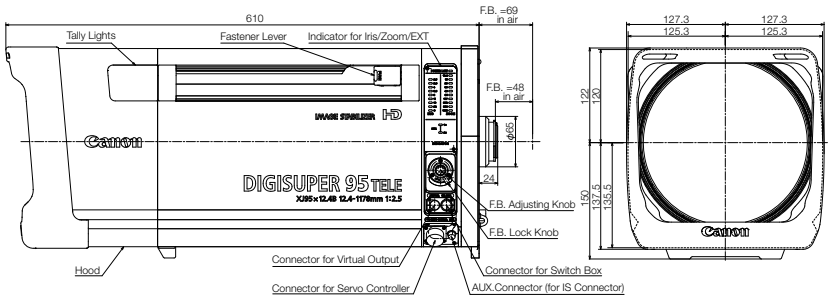
Compatibility of Accessories for DIGISUPER 95

No.	DESCRIPTION	MODEL NAME
1-a	Digital Zoom Demand	ZDJ-P01
1-b	Digital Zoom Demand	ZDJ-D02
2-a	Digital Focus Demand	FDJ-P01
2-b	Digital Focus Demand	FDJ-D02
3	Digital Servo Module	SMJ-E01
—	Protection Filter	PFJ-951
—	IS Switch	SBJ-IS2

* Lens Supporter is necessary for portable camera mounting.

DIMENSIONS





SPECIFICATIONS

Model	DIGISUPER 95		DIGISUPER 95 TELE	
Aspect ratio	16:9		16:9	
Built-in Extender	1.0x	2.0x	1.0x	2.0x
Zoom Ratio	95x			
Range of Focal Length	8.6 - 820mm	17.2 - 1640mm	12.4 - 1178mm	24.8 - 2356mm
Maximum Relative Aperture	1:1.7 at 8.6 - 340mm 1:4.1 at 820mm	1:3.4 at 17.2 - 680mm 1:8.2 at 1640mm	1:2.5 at 12.4 - 491mm 1:6.0 at 1178mm	1:5.0 at 24.8 - 982mm 1:12.0 at 2356mm
Angular Field of View	58.3°×34.9° at 8.6mm 0.67°×0.38° at 820mm	31.2°×17.8° at 17.2mm 0.34°×0.19° at 1640mm	42.3°×24.6° at 12.4mm 0.47°×0.26° at 1178mm	21.9°×12.4° at 24.8mm 0.23°×0.13° at 2356mm
Minimum Object Distance (M.O.D.)	3.0m			
Object Dimentions at M.O.D.	298.1×167.7cm at 8.6mm 3.2×1.8cm at 820mm	149.1×83.9cm at 17.2mm 1.6×0.9cm at 1640mm	209.5×117.8cm at 12.4mm 2.3×1.3cm at 1178mm	104.8×58.9cm at 24.8mm 1.2×0.7cm at 2356mm
Approx. Size (W x H x L)	9.9 x 10 x 24 in. (250.6 x 255.5 x 610.0mm)			
Approx. Mass	51.1lbs (23.2kg)			

Canon
SEE IMPOSSIBLE

©2017 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.

1-800-OK-CANON
usa.canon.com

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

0206W756 4/17

PRINTED IN U.S.A.