

Canon

DIGISUPER 100

XJ100x9.3B 9.3-930mm 1:1.7



100x Flagship Field Lens with Advanced Image Stabilizer



INNOVATION

In TV Optics Since 1958

Toward 100 years anniversary



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Canon lenses are used to capture many of the dramatic moments, thrills, and excitement conveyed to viewers from a wide variety of venues, including international sporting events held around the world such as soccer matches, baseball games, cricket matches and car races. Thanks to their superb performance, Canon field lenses have won the overwhelming support of broadcasting stations, and major OB van companies and production houses throughout the world who create TV programming featuring such events -- as a result the use of Canon field lenses continues to expand.

Ultra-telephoto field lenses with exceptional optical performance, ultra-high-magnification and excellent image stabilization functionality needed to capture the quick and sudden movements that characterize programming such as live relays of sporting events are in high demand. Canon's flagship field lens model, the XJ100x9.3B, provides this functionality as part of its standard feature set because it was developed with precisely such demanding applications in mind. The advanced optical performance of the XJ100x9.3B makes it possible to capture dramatic moments with powerful super close-ups, and its state-of-the-art image stabilization functionality effectively suppresses vibrations from wind or movement on the field to deliver stunningly beautiful images free of blurring.

Canon is constantly pursuing new technological advances to create revolutionary new products so that people all over the world can experience the drama and excitement of the sporting events they love.

Main Features

Incorporates an advanced image stabilizer, a formidable ally of cameramen everywhere for mitigating vibration of all kinds, as a standard function.

The image stabilizer feature by Canon has been faithfully used over the years at many of the world's highest-profile sporting events, and is now considered a must when shooting sports. With the XJ100x9.3B, a more advanced version of Canon's image stabilizer has been incorporated as a standard feature.

With a new sensor and sped-up control circuit, this latest version of the image stabilizer significantly curbs vibration, particularly in the high-frequency range. By successfully suppressing all kinds of vibration, such as that generated by wind and excited fans in the stands, the XJ100x9.3B's image stabilizer allows the capture of stable, clear video even at super-telephoto range. It also makes camerawork a comfortable endeavor by largely mitigating the "aftershock" phenomenon that occurs when an image moves after the camera operator stops panning.

The XJ100x9.3B, XJ95x and XJ80x field lenses all feature the same image stabilizer in their standard feature set, allowing them to deliver stable, beautiful images.



f=9.3mm



100x



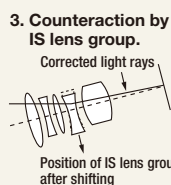
f=930mm



1. Lens when still.



2. Lens when jerked downward.



3. Counteraction by IS lens group.

Corrected light rays
Position of IS lens group after shifting



To Subject

Image plane



DIGISUPER Field Lens Series

The DIGISUPER series represents a crystallization of the unsurpassed technology offered by Canon. The DIGISUPER series offers zoom lenses that range from its 100x super-telephoto zoom flagship model to a 60x middle-range zoom model, as well as focal lengths between 8.6mm and 1,860mm, to completely cover any and all ranges that are required for field production.

Category	Zoom Ratio	IS	AF	Focal Length (mm)													
				8.6	8.8	9	9.3	17.6	18	18.6	540	690	710	800	820	930	1080
Flagship	100x	○	○	XJ100x9.3B AF with 2x Extender													
New Flagship	100x	○	—	9.3mm XJ100x9.3B with 2x Extender 1860mm													
Telephoto	95x	○	—	XJ95x8.6B with 2x Extender													
Telephoto	86x	○	○	XJ86x9.3B AF with 2x Extender													
Premium	80x	○	—	XJ80x8.8B with 2x Extender													
Standard	76x	—	—	XJ76x9B with 2x Extender													
Affordable	60x	—	—	XJ60x9B with 2x Extender													

IS : Image Stabilizer AF : Auto Focus

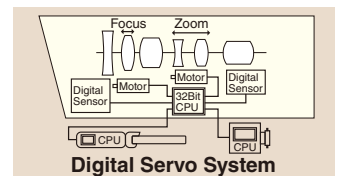
Superior operability and tracking enables you to capture images exactly as you want to.

With its superior operability, the XJ100x9.3B makes nimble camerawork possible while also offering enhanced width and higher magnification despite no intrusive increases in physical lens size.

Moreover, the use of a high-speed CPU and high-resolution encoder, coupled with improvements in control algorithms, have yielded significant enhancements in handling subjects entering motion and subsequent tracking when zooming at super-slow speeds. The results are shots taken exactly as you intended to take them.

Reduces shifts in angles of view caused by focusing to nearly zero. CAFS (Constant Angle Focusing System)

A 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.



Support for Various Virtual System

The XJ100x9.3B is equipped with high-performance zoom, focus, and iris encoders.

With multiple support for encoder outputs, analog outputs, and serial outputs, the XJ100x9.3B 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.



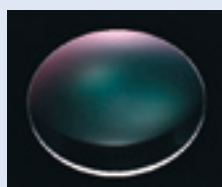
20-pin lens interface

Ultimate Optical Performance



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Toward 100 years anniversary



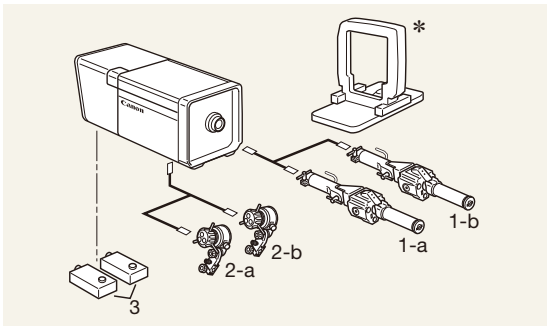
Canon's design and production technologies have been refined through more than 50 years of advanced R&D and extensive experience in broadcast lens development.

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 XJ100x9.3B lens to provide a superb telephoto image, a high 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 the 16:9 HD image plane.

RECOMMENDED LENS SYSTEM

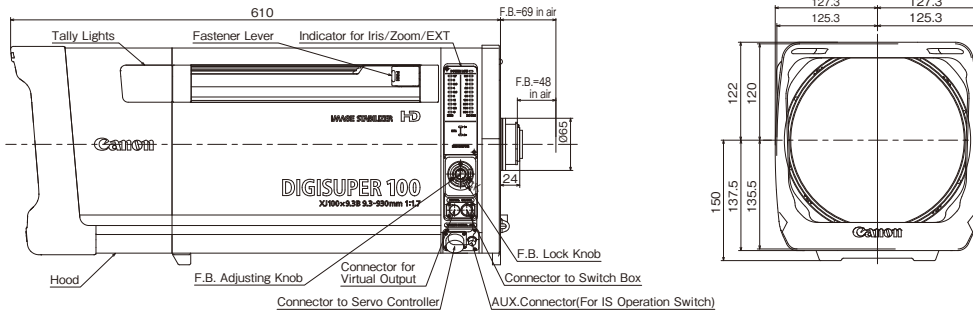


Compatibility of Accessories for DIGISUPER 100

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

DIGISUPER 100	16:9		4:3	
	1.0x	2.0x	1.0x	2.0x
Built-in Extender				
Zoom Ratio	100x			
Range of Focal Length	9.3~930mm	18.6~1860mm	9.3~930mm	18.6~1860mm
Maximum Relative Aperture	1:1.7 at 9.3~296mm 1:4.7 at 930mm	1:3.4 at 18.6~592mm 1:9.4 at 1860mm	1:1.7 at 9.3~296mm 1:4.7 at 930mm	1:3.4 at 18.6~592mm 1:9.4 at 1860mm
Angular Field of View	54.6°×32.4° at 9.3mm 0.59°×0.33° at 930mm	28.9°×16.5° at 18.6mm 0.30°×0.17° at 1860mm	50.6°×39.1° at 9.3mm 0.54°×0.41° at 930mm	26.6°×20.1° at 18.6mm 0.27°×0.20° at 1860mm
Minimum Object Distance (M.O.D.)	3.0m from front lens vertex			
Object Dimensions at M.O.D.	276.4×155.5cm at 9.3mm 2.76×1.56cm at 930mm	138.2×77.8cm at 18.6mm 1.38×0.78cm at 1860mm	253.9×190.4cm at 9.3mm 2.54×1.90cm at 930mm	127.0×95.2cm at 18.6mm 1.27×0.95cm at 1860mm
Approx. Size	W×H×L=250.6×255.5×610mm			
Approx. Mass	23.5kg (51.8lbs)			

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