



HD ELECTRONIC CINEMATOGRAPHY LENSES
FROM THE COMPANY THAT KNOWS FILM

HD **EC**

HD **EC**

Canon KNOW HOW™

Canon and Canon Know How are trademarks of Canon Inc. ©2001 Canon USA, Inc.

CANON HD-EC LENSES: POWERFUL TOO

Introducing HD Electronic Cinematography lenses from a company that knows film: Canon.



HJ21x7.5B KLL-SC



HJ11x4.7B KLL-SC

Canon's HD-EC zooms are designed to have a very small amount of focus breathing, making them ideal for HD-EC production. The HJ21 has up to 3 times less focus breathing than any other comparable lens, and the HJ11 has an additional 50% less focus breathing. Plus, a maximum relative aperture (T Stop) of 2.1 makes the lenses faster than ever and the best in the field.

Canon's HD-EC line includes the HJ21x7.5B KLL-SC and HJ11x4.7B KLL-SC zooms and the FJ5, FJ9, FJ14, FJ24 and FJ35 primes. Both utilize Hi-UD (High Index, Ultra Low Dispersion) glass and Fluorite, to achieve lower aberrations, while exhibiting very high MTF.

The best optical tools in electronic cinematography, HD-EC zoom lenses have been refined using Canon's exclusive Power Optical System featuring the X-Element, a unique high definition system that combines exceptional performance with enhanced specifications.

All Canon HD-EC lenses have traditional film style feel and operation. Zoom, focus and iris indications are engraved with dual large luminous scales (focus distance marked in feet), which have been vastly improved. Gear rings are compatible with studio focus rigs, manual fluid zoom drives and motorized control systems used for film lenses.



FJ9

FJ5

FJ35

FJ24

FJ14

Canon's HD-EC primes exhibit high MTF, high resolution and high contrast from the center of the image to its extreme edges, an important benefit of Canon's new proprietary design techniques. Other features include: significantly reduced flare, with an exceptionally sharp, flat picture and virtually no curvature of the field; no apparent Geometric Distortion and dramatically reduced color aberration and minimized focus breathing.

HD-EC

LENS FOR ELECTRONIC CINEMATOGRAPHY.

HD-EC FOCAL LENGTH COMPARISON

Lens	2/3" HD-EC (11 mm Diag.)	35 mm ACADEMY (27.26 mm Diag.)	SUPER 16 (14.55 mm Diag.)
FJ5mm	5 mm	12.4 mm	6.6 mm
FJ9mm	9 mm	22.3 mm	11.9 mm
FJ14mm	14 mm	34.7 mm	18.5 mm
FJ24mm	24 mm	59.5 mm	31.7 mm
FJ35mm	35 mm	86.7 mm	46.3 mm
HJ11x4.7B KLL-SC	4.7 - 52 mm	11.6 - 128.9 mm	6.2 - 68.8 mm
HJ21x7.5B KLL-SC	7.5 - 158 mm	18.6 - 391.6 mm	9.9 - 209 mm

Comparisons are based on the diagonal of the image formats shown above.

ZOOM LENS SPECIFICATIONS

IMAGE FORMAT: 9.6x5.4 mm (DIAG. 11.0 mm)

Lens	Zoom Ratio	Range of Focal Length	T-Stop	Angular Field of View 16:9	Minimum Object Distance (M.O.D.)	Object Dimensions at M.O.D.(16:9)	Size (W x L) mm	Weight (approx.)	Focus Rotation Angle
HJ11x4.7B KLL-SC	11x	4.7~52 mm	T 2.1	91.2° x 59.8° at 4.7 mm 10.5° x 5.9° at 52 mm	1' 11"	2' 4" x 1' 3 ³ / ₄ " at 4.7 mm 2 ¹ / ₂ " x 1 ¹ / ₂ " at 52 mm	ø95 x 242 mm	1.6 kg (3.52 lbs)	270°
HJ21x7.5B KLL-SC	21x	7.5~158 mm	T 2.1	65.2° x 39.6° at 7.5 mm 3.5° x 2.0° at 158 mm	3' 10"	3' 11 ¹ / ₂ " x 2' 2 ³ / ₄ " at 7.5 mm 2 ¹ / ₄ " x 1 ¹ / ₄ " at 158 mm	ø130 x 260 mm	2.4 kg (5.28lbs)	270°

PRIME LENS SPECIFICATIONS

IMAGE FORMAT: 9.6x5.4 mm (DIAG. 11.0 mm)

Lens	Focal Length	T-Stop	Angular Field of View 16:9	Minimum Object Distance (M.O.D.)	Object Dimensions at M.O.D.(16:9)	Size (W x L) mm	Weight (approx.)	Focus Rotation Angle
FJ5mm	5 mm	T 1.7	87.7° x 56.7°	1' 8"	1' 9 ¹ / ₂ " x 1'	ø120 x 192 mm	1.7 kg (3.75 lbs)	180°
FJ9mm	9mm	T 1.5	56.1° x 33.4°	1' 6"	1' 1" x 7 ¹ / ₄ "	ø80 x 131 mm	1.0 kg (2.20 lbs)	180°
FJ14mm	14mm	T 1.5	37.8° x 21.8°	1' 4"	7 ¹ / ₂ " x 4 ¹ / ₂ "	ø80 x 101 mm	0.8 kg (1.76 lbs)	180°
FJ24mm	24mm	T 1.5	22.6° x 12.8°	1' 6"	5 ³ / ₄ " x 3 ¹ / ₄ "	ø80 x 101 mm	0.8 kg (1.76 lbs)	180°
FJ35mm	35mm	T 1.5	15.6° x 8.8°	1' 8"	4 ¹ / ₂ " x 2 ¹ / ₂ "	ø80 x 101 mm	0.8 kg (1.76 lbs)	180°

CANON HD-EC LENSES: FEATURES AT A GLANCE

1. From the ground up, uniform design concept, achieves a desirable "Canon look," and consistent color temperature between lenses.
2. Minimized focus breathing (the lowest of any comparable lens).
3. Working distance between the camera and subject does not affect optical performance.
4. All lenses feature Internal Focus technology. The HJ21X features three group internal focus to improve optical performance at longer distances at high zoom ratios.
5. Prime lenses feature an eight-blade iris.
6. Shortest Minimum Object Distance (MOD).
7. Position of zoom, focus and iris gears on all lenses, as measured from the mount, is identical, for consistent position of accessories between lenses.

20 years of motion picture lens production results in HD Electronic Cinematography "essential tools" that combine outstanding performance and greater function for DPs, Operators, and ACs.



Maximize Your 24p Camera's Performance.

Canon KNOW HOW™

Canon USA, Inc.: Broadcast and Communications Division

400 SYLVAN AVENUE • ENGLEWOOD CLIFFS, NJ 07632 • PHONE: (800) 321-HDTV • (201) 816-2900 • FAX: (201) 816-2909

Chicago
(630) 250-6231

Atlanta
(770) 849-7895

Los Angeles
(949) 753-4330

Dallas
(972) 409-8871

Latin America
USA-(201) 816-2900

Canada
(905) 795-2012