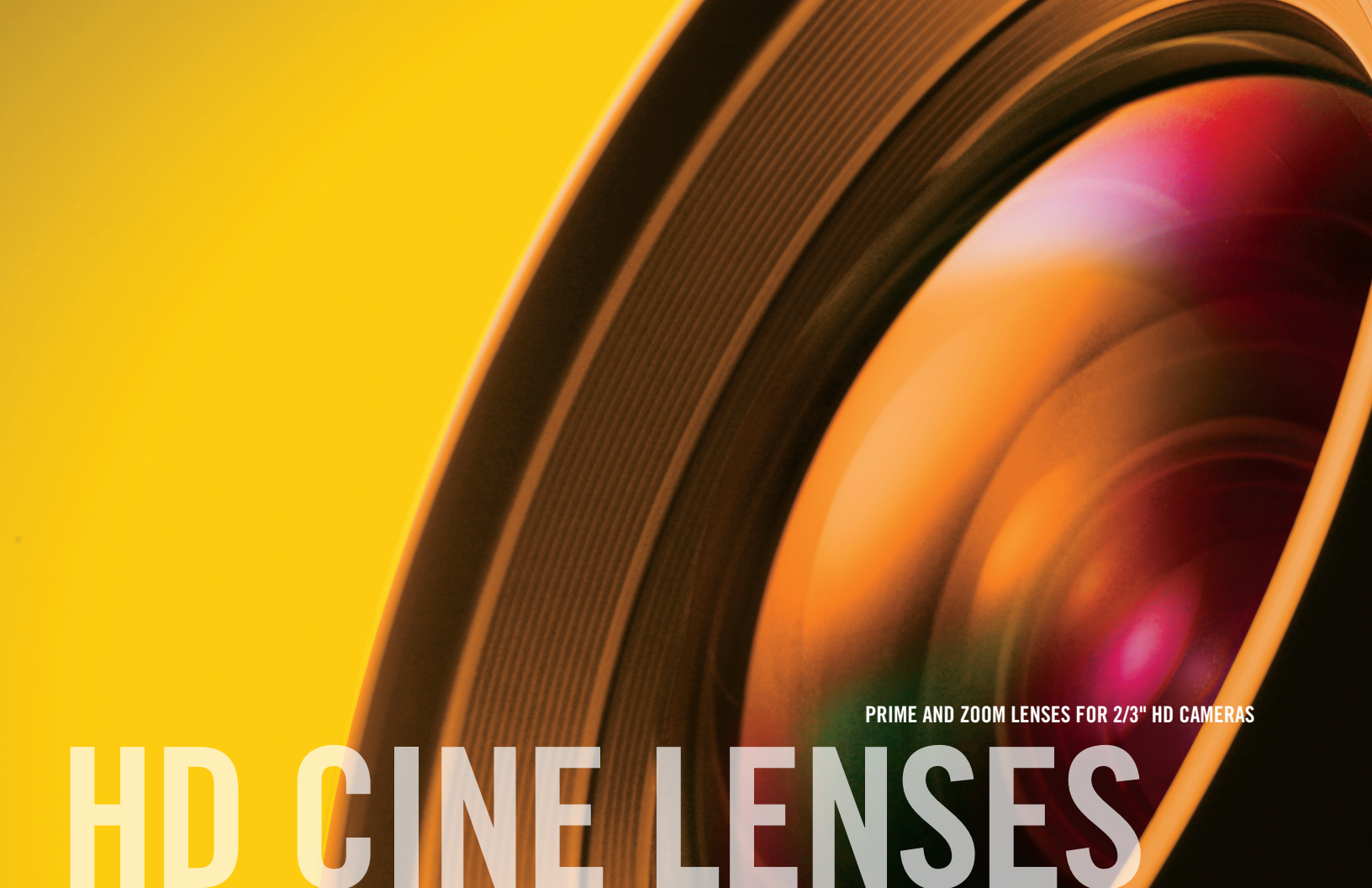




PRIME AND ZOOM LENSES FOR 2/3" HD CAMERAS

HD CINE LENSES

∞ 50 30 20 15 10 8 7 6 5 4

FUJINON
FUJIFILM



E SERIES LENSES

∞ 50 30 20 15 10 8 7 6 5 4



EXCEPTIONAL PRECISION. STUNNING CLARITY. UNRIVALED DETAIL.
FUJINON E SERIES LENSES — SETTING THE STANDARD FOR OPTICAL PERFORMANCE.

By any definition, Fujinon HD Cine lenses deliver unsurpassed image quality. Crafted to the very highest standards, our E Series Lenses are engineered to provide discriminating cinematographers with images that are singularly precise and remarkably free of aberrations.

UNIFORM SIZE AND GEAR POSITION

In order to facilitate quick lens changes all E Series prime lenses have a 95mm front diameter while focus and iris gear positions are uniformly positioned.

The 5-15, 6-30 and 10-100 E Series zooms have a 128mm front diameter. The 9.5-114 has a front diameter of 156mm. Focus, zoom and iris gears are uniformly positioned on all four lenses for quick changes using standard and familiar film-industry lens control and matte accessories.

HIGH RESOLUTION. BALANCED RELATIVE ILLUMINATION

E Series lenses provide excellent relative illumination at wide apertures and high resolution over the entire image area. Brightness is uniform and depth of field remains the same from the center to the corners.

ACCURATE, VISIBLE MARKINGS

Focus, zoom and iris scales are oversized, brightly colored and easy to read in low light. The iris scale is marked in 1/3 stop increments, visible from both sides of the lens. Focus barrel rotation on all E Series lenses is 280 degrees.

CONSTANT T-NO.

All E Series zooms maintain a constant T-number throughout the zoom range, requiring no adjustment for iris compensation.

ACCURATELY COLOR MATCHED

E Series lenses are designed to exhibit the same color balance characteristics, by employing Fujinon's exclusive EBC coatings combined with specifically chosen glass materials.

PRECISE FOCUS. CRISP HIGH CONTRAST IMAGES

Special low dispersion and high refractive index glass is used to minimize chromatic aberrations. Exclusive EBC coatings decrease flare and ghosts, providing a high contrast and high MTF image, with low color fringing. MTF of E Series lenses is not affected by changes in iris, or shooting distance.

ADVANCED BACK-FOCUS MECHANISM

For quick, thorough and repeatable back-focus adjustment, E Series lenses implement a precise back-focus adjustment mechanism, with expanded back-focus scales and a secure locking design.

WIDE OPEN PERFORMANCE. FASTEST ZOOMS

To maximize control over depth-of-field, all E Series lenses are optimized to operate at their wide open T-Number, with minimal internal reflections and flare. Fujinon E Series zooms, at T1.6 and T1.8 are the fastest in the industry, providing the most depth-of-field control and the highest optical performance available.

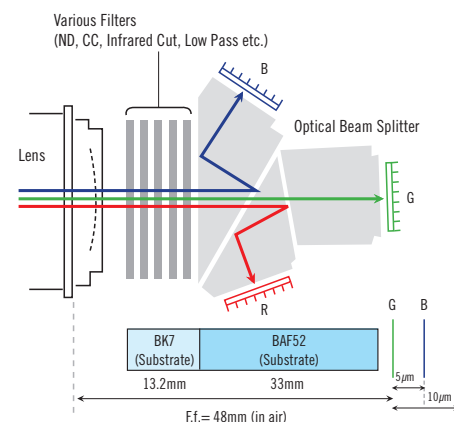
11 BLADE IRIS

E Series zoom and prime lenses utilize an iris assembly containing 11 blades for precise circular aperture openings. This improves resolution in soft focus areas, thus improving the overall sharpness and depth of the image.

MINIMIZED FOCUS BREATHING

Field of view remains constant with Focus adjustment in all E Series zoom and prime lenses, incorporating Fujinon's advanced Inner Focus and Floating Element design.

*Fujinon is by far the leading supplier of Optical
Prism Assemblies found in HD cameras worldwide.*



Specifications for the interface between the lens and a 2/3" HD CCD camera.

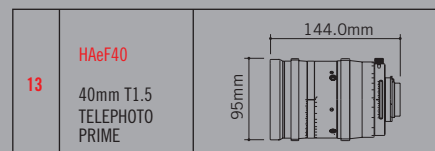
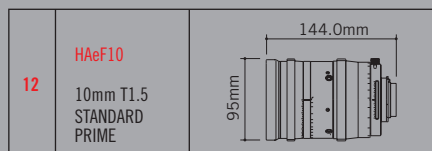
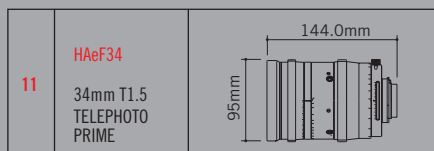
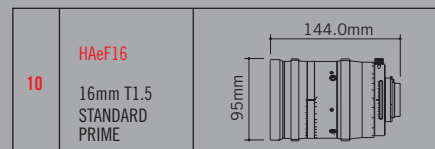
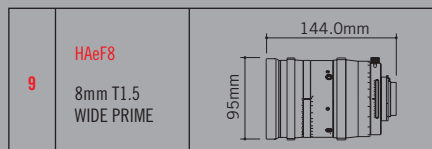
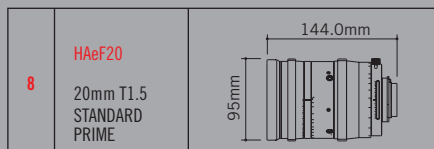
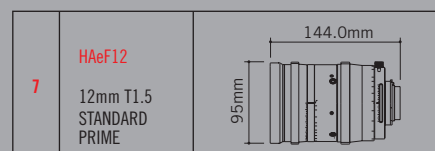
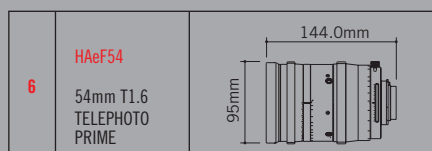
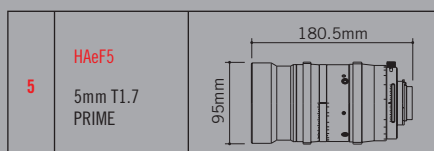
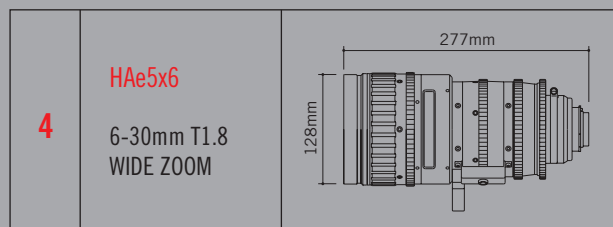
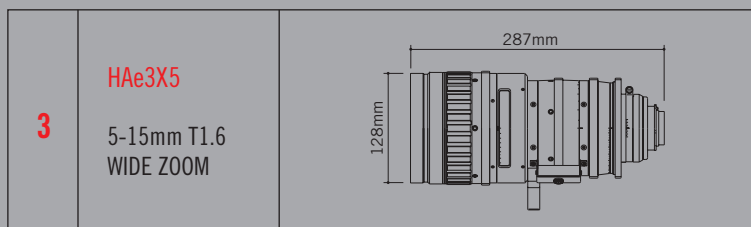
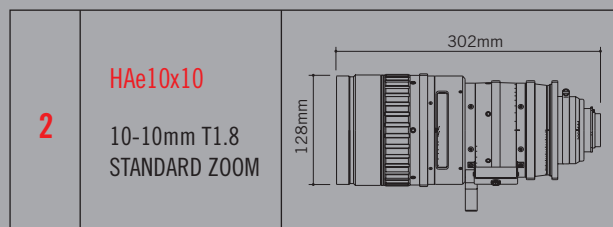
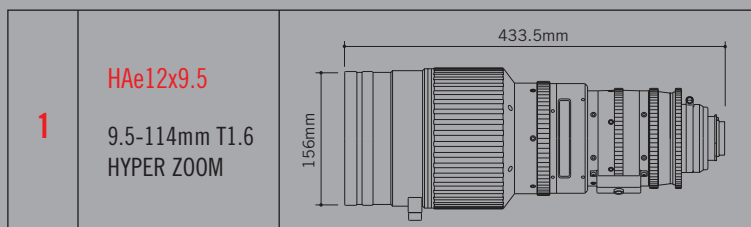
E SERIES LENS COMPARISON CHART

35mm Lens for Film Camera		12.5	15	20	24	25	30	37	40	50	75	85	100	135	250	285	
2/3" HD CCD Camera		5	6	8	9.5	10	12	15	16	20	30	34	40	54	100	114	
HD CINE SUPER E SERIES	PRIME Lens	HAEF5	HAEF8		HAEF10		HAEF12		HAEF16		HAEF20		HAEF34		HAEF40	HAEF54	
		T1.7	T1.5		T1.5		T1.5		T1.5		T1.5		T1.5	T1.6			
	ZOOM Lens																
		HAE3x5	5 - 15mm, T1.6														
		HAE5x6	5 - 30mm, T1.8														
		HAE10x10	10 - 100mm, T1.8														
HAE12x9.5	9.5 - 114mm, T1.6																

HD CINE

E SERIES LENSES

WITH ENHANCED FEATURES,
ADVANCED ENGINEERING AND
UNCOMPROMISING PERFORMANCE,
THE FUJINON E SERIES REDEFINES
THE ART AND SCIENCE OF HIGH
DEFINITION CINEMA OPTICS.



LINE-UP & SPECIFICATIONS

E SERIES ZOOMS 2/3" HD FORMAT 5-15M

Model Name	HAe3x5	HAe5x6	HAe10x10	HAe12x9.5
Application	2/3" HD Camera			
Focal Length	5-15mm	6-30mm	10-100mm	9.5-114mm
Zoom Ratio	3x	5x	10x	12x
T-No.	1.6	1.8	1.8	1.6
Iris Blades	11	11	11	11
Close Focus Limit from Image Plane	.56m/22.08"	.56m/22.08"	.94m/36.96"	1.2m/47.28"
Object at Close Focus 16 : 9 aspect ratio	5mm 541x304mm 15mm 178x100mm	6mm 458x257mm 30mm 92x51mm	10mm 633x356mm 100mm 65x37mm	9.5mm 861x484mm 114mm 72x40mm
Angular field of view 16 : 9 aspect ratio	5mm 87°36'x56°39' 15mm 35°27'x20°22'	6mm 77°16'x48°23' 30mm 18°10'x10°16'	10mm 51°14'x30°10' 100mm 5°29'x3°05'	9.5mm 53°34'x31°41' 114mm 4°49'x2°43'
Focus Rotation	280°	280°	280°	280°
Zoom Rotation	160°	160°	160°	160°
Diameter x Length	128x287mm	128x277mm	128x302mm	156x433.5mm
Weight	5kg/11lbs	4.7kg/9.4lbs	5.8kg/12.76lbs	10kg/22lbs
Available Model	Foot Scale and Metric Scale available			

E SERIES PRIMES

Model Name	HAeF5	HAeF8	HAeF10	HAeF12	HAeF16	HAeF20	HAeF34	HAeF40	HAeF54
Application	2/3" HD Camera								
Focal Length	5mm	8mm	10mm	12mm	16mm	20mm	34mm	40mm	54mm
T-No.	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6
Iris Blades	11	11	11	11	11	11	11	11	11
Close Focus Limit from Image Plane	.5m/19.68"	.4m/15.75"	.5m/19.68"	.4m/15.75"	.4m/15.75"	.45m/17.72"	.4m/15.75"	.5m/19.68"	.6m/23.62"
Object at Close Focus 16 : 9 aspect ratio	591x332mm	288x162mm	335x188mm	220x124mm	175x98mm	165x93mm	83x47mm	99x56mm	92x52mm
Angular field of view 16 : 9 aspect ratio	87°36'x56°39'	61°52'x37°14'	51°14'x30°10'	43°34'x25°19'	33°22'x19°07'	26°58'x15°21'	16°03'x9°04'	13°40'x7°42'	10°09'x5°43'
Filter thread	—	M86x1	M86x1	M86x1	M86x1	M86x1	M86x1	M86x1	M86x1
Focus Rotation	280°	280°	280°	280°	280°	280°	280°	280°	280°
Diameter x Length	95x180.5mm	95x144mm	95x144mm	95x144mm	95x144mm	95x144mm	95x144mm	95x144mm	95x144mm
Weight	2.2kg/4.84lbs	1.6kg/3.52lbs	1.62kg/3.56lbs	1.65kg/3.63lbs	1.6kg/3.52lbs	1.6kg/3.52lbs	1.65kg/3.63lbs	1.65kg/3.63lbs	1.65kg/3.63lbs
Available Versions	Foot Scale and Metric Scale available								

E SERIES 1.4X EXTENDER

Model Name	HAeE14-1
Magnification	1.4x
Diameter x Length	ø78x40.6mm
Weight	0.3kg/.66lbs

*T-No. on the master lens becomes 1.4x



The high quality E Series 1.4x Tele-Extender increases focal range of zooms and primes by 1.4x, with a minimal 1 F-stop loss.

LEGEND

E Series ZOOMS	2/3" Format HD Focal Length at Wide End HAe 3 x 5 — F Foot Scale M Metric Scale E Series Zoom Ratio
E Series PRIMES	2/3" Format HD HAeF 5 — F Foot Scale M Metric Scale E Series Focal Length

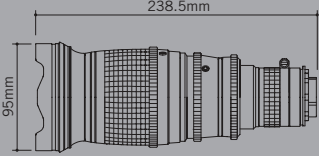
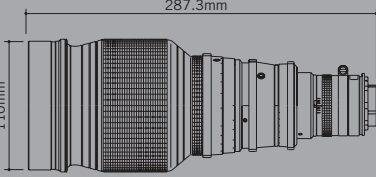
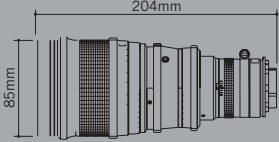
C SERIES LENSES

∞ 50 30 20 15 10 8 7 6 5 4



COMPACT DESIGN. LIGHTWEIGHT MOBILITY. METICULOUS QUALITY.
C SERIES ZOOM LENSES – HUGE PERFORMANCE, COMPACT SIZE.

FUJINON'S COMPACT C SERIES ARE THE LENSES OF CHOICE FOR PRODUCTIONS REQUIRING BOTH MOBILITY AND QUALITY. WITH A PEDIGREE OF ADVANCED FEATURES AND TECHNOLOGY, THEY DELIVER EXCEPTIONALLY LONG AND USEFUL FOCAL RANGES, PORTABILITY, AFFORDABILITY AND FUJINON'S UNCOMPROMISING CINEMATIC IMAGERY.

1	HAc13x4.5 4.5-59mm T2-2.9 WIDE ZOOM	
2	HAc15x7.3 7.3-110mm T2 ELITE STANDARD ZOOM	
3	HAc18x7.6 7.6-137mm T1.9-2.6 LIGHT WEIGHT STANDARD ZOOM	



LINE-UP & SPECIFICATIONS

C SERIES

Model Name	HAc13×4.5	HAc15×7.3	HAc18×7.6
Application	2/3" HD Camera (All Models)		
Focal Length	4.5-59mm	7.3-110mm	7.6-137mm
Zoom Ratio	13x	15x	18x
T-No.	2(4.5-39.2mm) 2.9(59mm)	2(7.3-110mm) Constant T-No., No Breathing	1.9(7.6-105mm) 2.6(137mm)
Iris Blades	6	8	6
Close Focus Limit from Image Plane	.59m/22.23"	1.18m/46.46"	.87m/34.25"
Object at Close Focus 16 : 9 Aspect Ratio	4.5mm 750x422mm 59mm 55x31mm	7.3mm 1222x687mm 110mm 79x44mm	7.6mm 738x415mm 137mm 41x23mm
Angular Field of View 16 : 9 Aspect Ratio	4.5mm 93°38'x61°50' 59mm 9°18'x5°14'	7.3mm 66°36'x40°32' 110mm 5°00'x2°48'	7.6mm 64°30'x39°03' 137mm 4°01'x2°15'
Focus Rotation	280°	280°	280°
Zoom Rotation	90°	83°	90°
Diameter x Length	95x238.5mm	110x287.3mm	85x204mm
Weight	1.7kg/3.74lbs	2.9kg/6.38lbs	1.6kg/3.52lbs
Available Versions	Foot Scale and Metric Scale Available (All Models)		

LEGEND

C Series ZOOMS

2/3" Format HD

Focal Length at Wide End

HAc 15x7.3

Foot Scale

Metric Scale

C Series

Zoom Ratio

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