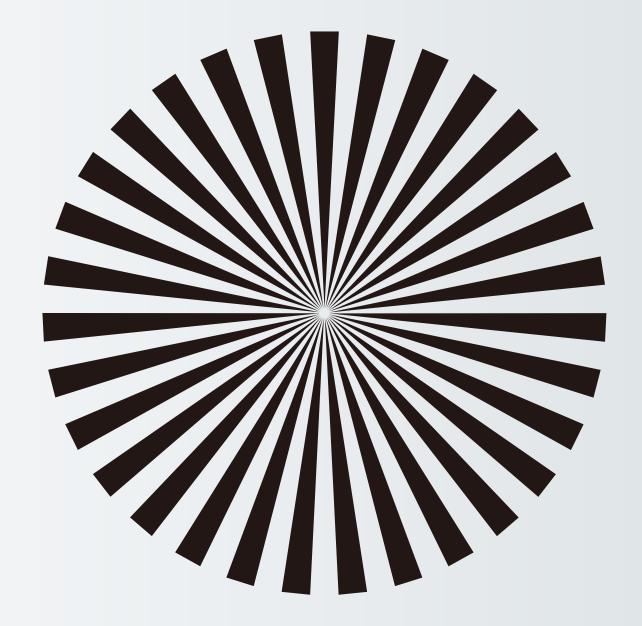
FUJINON





Focused on the Future

FUJINON

TELEVISION LENSES & CINE LENSES 2020



Television Lenses

Fujifilm has been engaged in the development and production of TV Lenses for over 50 years.

FUJINON TV Lenses have supported image creation throughout the world with our own unique technologies such as, optical design development, advanced manufacturing capabilities and exceptional quality.

All FUJINON lenses are intentionally designed keeping in mind the optical, mechanical and electronic requirements of visual creators. Making use of our highly accurate design, manufacturing and assembly skills, Fujifilm will continue to develop unique products, and answer the diverse needs of videographers worldwide.





FUJINON Lens Model Explanation

Studio/Field Box Lenses 1 2 3 4 5 6 7 8 9 UA 107 × 8.4 B E SM - T 35 K

Comoro Imagra	UA	4K-UHD 2/3" Sensor Format				
Camera Image Sensor Format	XA	HD 2/3" Sensor Format				
Sensor Format	HA	2/3" Sensor Format				
Zoom Ratio						
Wide End of Focal Length						
Bayonet Mount						
Extender	Е	with Extender				
Lana Cantual Time SM		Servo / Manual Module Interchangeable				
Lens Control Type	S	Servo Only				
	S/T	Field Lens with OS-TECH				
Lens Type	F	Studio Lens				
	D	Minibox Lens				
Lens Mount	35/48	For Studio Standard Camera Mount (BTA Type)				
Consider Franchism	Е	with 1.2x Extender				
Special Function	K	with AF				
	Sensor Format Zoom Ratio Wide End of Foc Bayonet Mount Extender Lens Control Type Lens Type	Zoom Ratio Wide End of Focal Leng Bayonet Mount Extender Lens Control Type Sylvania				

ENG / EFP Portable Lenses 1 2 3 4 5 6 7 8 U A 46 × 9.5 B E RD - U **

	U	UHD Premier Series				
FNG / FFP	Н	High Definition Premier Series				
Portable Lens	Z	High Definition Select Series				
Category	Х	High Definition eXceed Series				
	Α	2/3" Sensor Format				
	S	1/2" Sensor Format				
Scrisor r orrida	Т	1/3" Sensor Format				
3 Zoom Ratio						
Wide End of Foc	al Leng	th				
Bayonet Mount						
Extender	Е	with Extender				
	RM	Zoom Servo, Focus Manual				
Long Control Time	RD	Zoom Servo, Focus Servo				
Lens Control Type	ZD	Zoom Servo, Focus Servo, with Quick Frame				
	MD	Remote Control				
	М	Digital Drive Unit / Zoom Servo, Focus Manual				
	S	Digital Drive Unit / Zoom Servo, Focus Servo				
	U	Digital Drive Unit / Zoom Servo, Focus Servo, with OS-TECH				
Duive Unit Tune	G	Digital Drive Unit / Zoom Servo, Focus Servo, with OS-TECH, Extender Remote				
Drive Unit Type	Т	Digital Drive Unit / Zoom Servo, Focus Servo, with Quick Frame				
	K	eXceed Drive Unit / Zoom Servo, Focus Manual				
	DSD	Remote Control Drive Unit / Video Control (Zoom, Focus, Iris)				
	0	without Digital Drive Unit				
	Camera Image Sensor Format Zoom Ratio Wide End of Foc Bayonet Mount	ENG / EFP Portable Lens Category X Camera Image Sensor Format Zoom Ratio Wide End of Focal Leng Bayonet Mount Extender E RM RD ZD MD M S U G T K DSD				

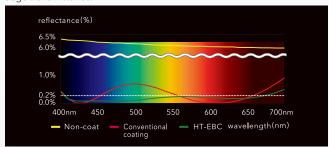


FUJINON Lens Technology

All large-diameter elements designed for broadcast lenses are the end result of our state of the art optical performance and high quality manufacturing technologies.

HT-EBC Coating (High Transmittance Electron Beam Coating)

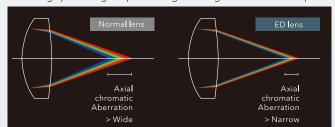
HT-EBC (High Transmittance Electron Beam Coating) is the multi layer coating technology developed to enhance the many high performance lens elements used in broadcast lenses. Lenses with HT-EBC boast high transmittance and low reflectivity over a broad wavelength band. Thanks to the coating, flare and ghost are decreased and realizing high edge to edge transmittance.



FD-Glass (Extra-Low Dispersion)

By employing ED Glass elements, it is possible to significantly reduce chromatic aberrations.

In addition, the reduced chromatic aberration is consistent from the center to the edge producing a superior image with high contrast and sharpness.



Technology for 8K

Fujifilm has been doing research and development for 8K Super Hi-Vision lenses. The Super Hi-Vision system offers an image beyond ultra high definition with 4,320 scanning lines and 33,000,000 pixels, 16 times that of the High-Vision system. A lens developed for Super Hi-vision must feature extremely high resolution as compared to current lenses. Current 4K High-Vision lenses can not meet the Super Hi-Vision resolution requirement.

Thanks not only to our optical design and production technology but also to our latest optical simulation programs and special materials; Fujifilm has been able to achieve 8K optical performance. At the same time, current lens operability is possible by minimizing the lens size and by employing an electronically controlled drive unit. Currently, the 8K Super Hi-Vision lenses being tested under real shooting conditions with plans for their future introduction.

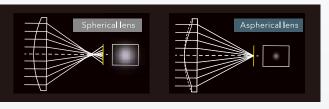


Aspherical Lens

Aspherical lens developed by Fujifilm's own technology will suppress various aberrations such as distortion and spherical aberrations effectively.







Calcium Fluorite

It equipped fluorite which has high optical performance to broadcast lens. Contribute to suppress chromatic aberrations.

Design Concept

In addition, Fujifilm has employed ergonomic design principles for all operational parts based upon input from talented camera operators. All lenses are also designed to reduce the use of hazardous materials that could pollute the environment.

One example is the use of eco-glass, which does not contain toxic

Award of FUJINON Lens

Emmy Award

Development of a TV Lens Adapted to CCD

Developing High-Performance Lenses Adapted to Hi-Vision

2009

Precision Focus Technology

Development of cine zoom lenses









4K Ultra HD 2/3" Lenses for Broadcast -UA Series-

Introducing the New Expanded 4K Broadcast Lens Lineup from FUJINON.

4K demands a higher dimension of performance, and the expanded FUJINON 4K broadcast lens lineup

Extending the limits of "High Resolution", "High Contrast", "Chromatic Aberration Reduction" and "High Dynamic Range", FUJINON's cutting-edge optical technology presents the next standard in optical performance - image quality that exceeds the high expectations of imaging professionals.

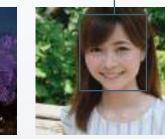












High Resolution

Resolution that matches the ultra-fine pitch of 4K pixels results in crisp and crystal clear images.

High Contrast

Superb image sharpness is achieved quency objects that are generally common in the image.

Chromatic Aberration Reduction

The combination of fluorite ED (extra by improving MTF even for low-fre- low dispersion) and super ED lens elements minimizes color fringing and delivers clear, crisp images.

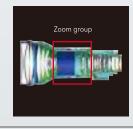
High Dynamic Range

To take full advantage of the expanded dynamic range offered by HDR cameras, we rigorously suppress flare and faithfully transmit the important "blacks" in video image rendering.

5. New coating system

Key technology 1. Multi-group zoom system

By employing a multi-group zoom structure, aberrations are suppressed over the entire zoom range from wide angle to telephoto, realizing high image quality.



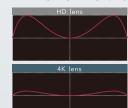
2. Large-aperture aspherical lens

Using a high-precision large-aperture aspherical lens element ensures high MTF to the very edges of the image.



3. Improved surface accuracv

Development of new polishing techniques and improvements in measurement precision achieve surface accuracy more than three times higher than that of HD, contributing to higher image quality.



4. Development of new barrel design

Optimizing the shape of the lens barrel interior as well as its surface treatment effectively suppresses ahosting and flares.

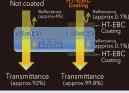
Key technology



Adopting HT-EBC coating technology that achieves a low 0.2% reflection or less over a wide spectrum of wavelengths keeps surface reflection of the lens to the absolute minimum and makes it possible to render truer "blacks".

In addition, camera adjustment is easier because the transmittance balance is improved from the shortest to the longest visible wavelengths





Natural bokeh achieved with nine iris blades

By adopting nine iris blades, FUJINON 4K lenses achieve a nearly circular aperture. This makes it possible to render images taking full advantage of a softer, more natural bokeh

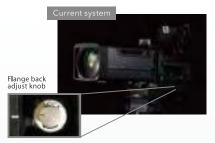




FUJINON Digital Technology

Remote Back Focus (RBF)

RBF enables precise remote control of back focus adjustments via the camera or robotic control panel while viewing a large video monitor in a studio production control room or mobile unit. During set up or if the shooting environment changes due to temperature, etc., the lens can be adjusted remotely at great distances, making more efficient shooting possible.

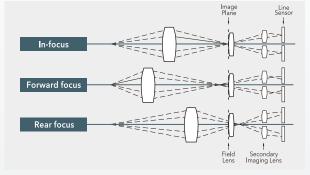




Advanced Focus System

The AF system uses FUJINON's proprietary phase detection system, enabling instant focusing without having to search for focus. This increases accuracy even in situations where focus is difficult to determine in the viewfinder. When shooting video, the operator can concentrate on zooming without worrying about focus control.



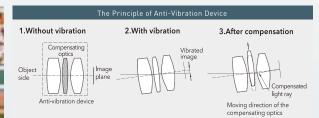


V Optical Stabilized Technology OS-TECH

System" where a shift correction signal is generated to optically compensate for vibration according to the amount of the movement detected. This system responds quickly and reduces the phenomenon to a minimum allowing for a natural looking image. The conveniently located control allows the operator to switch the anti-vibration system on and off







Breathing Compensation Technology(BCT)

Breathing Compensation Technology(BCT) synchronizes zoom movement with the focus movement to automatically correct for changes in the angle of view, thereby minimizing breathing and keeping the image size constant. BCT function eliminates the need to reset the angle of view after focusing, providing a high level of operability.









Quick Zoom is a function to temporarily zoom to a telephoto position simply by pressing and holding a switch. Releasing the switch returns the lens to its original position. Since it moves at maximum speed from the originating position to the telephoto end, it enables quick focus checks and fine tuning-helpful support for the user during video production.



1. Frame your shot, Press Q • Z button

Macro Function

This system allows macro shooting as close as 0.3m (0.05m on UA27x6.5) from

A dedicated Macro Controller helps to create natural bokeh scene effectively.





Macro controller EA-3A-10AB

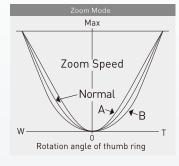
Zoom/Focus Mode Selection Function

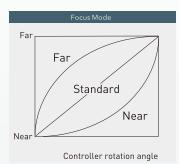
Zoom Mode Selection

The zoom demand makes it possible to select one of three different curves for how zoom speed varies according to the rotation angle of the thumb ring.

Focus Mode Selection

The focus demand makes it possible to select one of three curves for subject distance depending on the rotation angle of the focus knob. By setting to "Far" (infinity) or "Near" (close-in), it is possible to fine-tune the focus on the infinity side or the near side.





One Shot Preset

Zoom and focus can be preset at a selected position and stored in advance. One touch of the switch during shooting will instantly return to the stored position. This function is convenient when making frequent use of memorized positions during studio shoots or sports broadcasts.

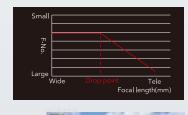
Virtual Connector

The DIGIPOWER drive unit features built-in high resolution 16 bit encoders as standard for highly accurate positioning in virtual studio, robotic and other applications.



F-Number Hold

When a broadcast TV lens zooms from wide angle to telephoto, F-drop occurs, which causes the open F value to become dark. F-No. Hold limits the zoom position to a point before F-drop begins, making it possible to reduce the workload during video production.





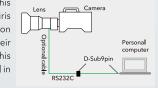






Serial Communication Control

Because the drive system is digital, this enables control of zoom, focus, and iris through a serial communication interface on a PC. It also enables read-out of their respective position information, making this digital system an extremely powerful tool in a wide range of operating environments.



Quick Frame (Optional)

Quick Frame allows for quick manual framing of a shot without the need to select the operation. Adjusting the zoom manually or automatically disengages the servo, which is then automatically re-engaged, when the manual zoom operation is stopped.

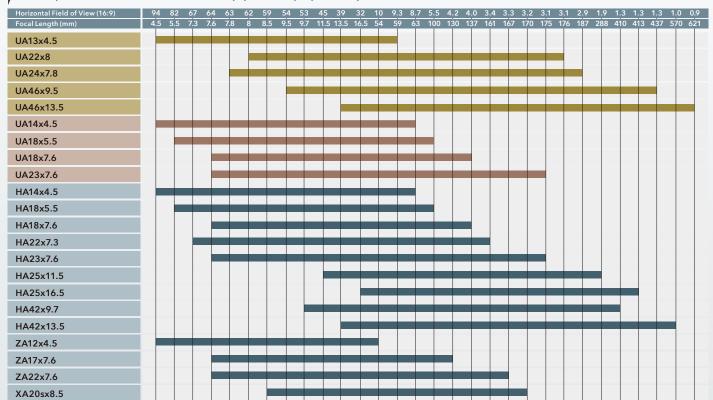


FUJINON TV Lenses Lineup

7 2/3" Studio / Field Box Lenses



ENG/EFP Portable Lenses (2/3"4K, 2/3"HD)



▼ ENG/EFP Portable Lenses (1/2"HD)

Horizontal Field of View (16:9)	93	65	58	9.3	3 4.3	3 3.	2
Focal Length (mm)	3.3	5.5	6.3	43	94	1 12	6
XS13x3.3							
ZS17x5.5							
XS20sx6.3							

FING/EFP Portable Lenses (1/3"HD)

· ·	` '						
Horizontal Field of View (16:9)	64	60	58	3.9	3.9	3.2	
Focal Length (mm)	4.2	4.5	4.7	76	77	94	
HTs18x4.2							
XT17sx4.5							
XT20sx4.7							

4K Plus Premier Series

Flagship series with surpassing 4K optical performance





Model Name	UAS	UA80x9BESM 1.2x EXT			UA125x8BESM		
Focal Length (1x)/(1.2x)/(2x)	9-720mm/10.8-864mm/	′18-1440mm		8-1000mm /-/ 16-2000mm			
Zoom Ratio	80 x			125x			
Extender	1.2 x 2 x	1.2 x 2 x					
Maximum Relative Aperture (F-No.)	1:1.7 (9-350mm) 1:3.5 (7	1:1.7 (9-350mm) 1:3.5 (720mm)			mm) 1:5.0(1000mm)		
Minimum Object Distance (M.O.D.) from Front Lens	3.7m	3.7m			3.0m		
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 9mm 3501mm × 1968mm 720mm 46mm × 26mm	(1.2×) 10.8mm 3009mm × 1692mm 864mm 39mm × 22mm	(2×) 18mm 1816mm × 1021mm 1440mm 23mm × 13mm		3198mm × 1799mm 27mm × 15mm		1677mm × 943mm 14mm × 8mm
Angular Field of View 16:9 Aspect Ratio	(1×) 9mm 56.1°× 33.3° 720mm 0.8° × 0.4°	(1.2×) 10.8mm 47.9° × 28.0° 864mm 0.6° × 0.4°	(2×) 18mm 29.8°×17.0° 1440mm 0.4°×0.2°		51.9° x 37.2° 0.55° x 0.31°	(2×) 16mm 2000mm	33.4° x 19.1° n 0.27° x 0.15°
Approx. Size	258 x 264 x 610mm(H x \	258 x 264 x 610mm(H x Wx L)			258 x 264 x 635mm(H x Wx L)		
Approx. Mass	23.5kg			26.6kg			

4K Premier Series

Excellent 4K optical performance for versatile shooting scene





Model Name	UA27x6	.5BESM	UA70x8.7BESM			
Focal Length (1x)/(2x)	6.5-180mm / 13-360mm		8.7mm-610mm / 17.4mm-1220mm			
Zoom Ratio	27 x		70 x			
Extender	2 x		2 x			
Maximum Relative Aperture (F-No.)	1:1.5(6.5-123mm) 1:2.2(180mm)		1:1.7(8.7-340mm) 1:3.05(610mm)			
Minimum Object Distance (M.O.D.) from Front Lens	0.6m		3.05m			
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 6.5mm 1063 × 597mm 180mm 38 × 21mm	(2×) 13mm 529 × 297mm 360mm 20 × 11mm	(1×) 8.7mm 2935mmx1651mm 610mm 44mmx25mm	(2×) 17.4mm 1537mmx865mm 1220mm 23mmx13mm		
Angular Field of View 16 : 9 Aspect Ratio	(1×) 6.5mm 72.8° × 45.0° 180mm 3.1° × 1.7°	(2×) 13mm 40.5° × 23.4° 360mm 1.5° × 0.9°	(1×) 8.7mm 57.7°x34.4° 610mm 0.9°x0.5°	(2×) 17.4mm 30.8°x17.6° 1220mm 0.5°x0.3°		
Approx. Size	258 x 264 x 536mm(HxWxL)		258x264x610mm(HxWxL)			
Approx. Mass	22.8kg		23.8kg			





			INLAA	ADVANCED FOCUS		
Model Name	UA107x8	3.4BESM	UA107x8.4BESM AF			
Focal Length (1x)/(2x)	8.4-900mm / 16.8-1800mm		8.4-900mm / 16.8-1800mm			
Zoom Ratio	107 x		107 x			
Extender	2 x		2 x			
Maximum Relative Aperture (F-No.)	1:1.7 (8.4-340mm) 1:4.5 (900mm)		1:1.7(8.4-340mm) 1:4.5(900mm)			
Minimum Object Distance (M.O.D.) from Front Lens	3.05m		3.05m			
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 8.4mm 3053mm × 1717mm 900mm 30mm × 17mm	(2×) 16.8mm 1594mm × 896mm 1800mm 15mm × 9mm	(1x) 8.4mm 3052mm x 1717mm 900mm 30mm x 17mm	(2×) 16.8mm 1594mm x 896mm 1800mm 15mm x 9mm		
Angular Field of View 16:9 Aspect Ratio	(1×) 8.4mm 59.4° × 35.6° 900mm 0.6° × 0.3°	(2×) 16.8mm 31.9° × 18.2° 1800mm 0.3° × 0.2°	(1x) 8.4mm 59.4°x35.6° 900mm 0.6°x0.3°	(2×) 16.8mm 31.9°x 18.2° 1800mm 0.3°x 0.2°		
Approx. Size	258 x 264 x 610mm(HxWxL)		258 x 264 x 670mm(HxWxL)			
Approx. Mass	23.9kg		26.0kg			

Studio / Field Box Lenses





HIGH-DEFINITION	2/3"
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Model Name	XA22	×7BES	HA27×6.5BESM		
Focal Length (1x)/(2x)	7–154mm / 14–308mm		6.5–180mm / 13–360mm		
Zoom Ratio	22 ×		27 ×		
Extender	2 ×		2 ×		
Maximum Relative Aperture (F-No.)	1:1.8(7-116mm)1:2.4(154mm)		1 : 1.5(6.5–123mm) 1 : 2.2(180mm)		
$Minimum\ Object\ Distance\ (M.O.D.)\ from\ Front\ Lens$	0.8m		0.6m		
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 7mm 1197 × 673mm 154mm 54 × 31mm	(2×) 14mm 599 × 337mm 308mm 27 × 15mm	(1×) (2×) 6.5mm 1053 × 592mm 13mm 527 × 296mm 180mm 39 × 22mm 360mm 20 × 11mm		
Angular Field of View 16: 9 Aspect Ratio	(1×) 7mm 68.8° × 42.1° 154mm 3.6° × 2°	(2×) 14mm 37.8° × 21.8° 308mm 1.8° × 1°	(1x) (2x) 6.5mm 72.8° × 45° 13mm 40.5° × 23.4° 180mm 3.1° × 1.7° 360mm 1.5° × 0.9°		
Approx. Size	179 × 187 × 340mm(HxWxL)		233 × 231 × 539mm(HxWxL)		
Approx. Mass	6.6kg		22.3kg		





	2/27
HIGH-DEFINITION	4/3

Model Name	XA55×9.5BESM			XA77×9.5BESM				
Focal Length (1x)/(2x)	9.5-525mm / 19-1050n	9.5-525mm / 19-1050mm			9.5–732mm / 19.0–1464mm			
Zoom Ratio	55 ×			77 ×				
Extender	2 ×			2 ×				
Maximum Relative Aperture (F-No.)	1:1.7(9.5mm-308mm) 1	1:1.7(9.5mm-308mm) 1:2.9(525mm)			1 : 1.7(9.5–335mm) 1 : 3.8(732mm)			
$Minimum\ Object\ Distance\ (M.O.D.)\ from\ Front\ Lens$	3.0m			2.7m				
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 9.5mm 2782 × 156 525mm 51 × 29mm		1406 × 790mm 26 × 15mm	(1×) 9.5mm 732mm	2425 × 1363mm 32 × 18mm	(2×) 19.0mm 1464mm	1241 × 697mm 16 × 9mm	
Angular Field of View 16:9 Aspect Ratio	(1×) 9.5mm 53.6° × 31. 525mm 1° × 0.6°	7° (2×) 19mm 1050mm	28.3° × 16.1° 0.5° × 0.3°	(1×) 9.5mm 732mm	53.6° × 31.7° 0.8° × 0.4°	(2×) 18.6mm 1464mm	28.3° × 16.1° 0.4° × 0.2°	
Approx. Size	253 × 253 × 876mm(H	xWxL)		253 × 253	× 656.4mm(HxWxL)			
Approx. Mass	24.8kg			22.4kg				

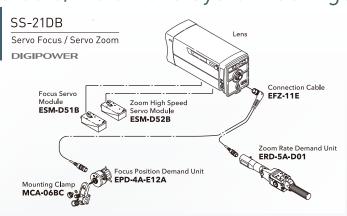
^{*}XA55x9.5BESM without lens supporter model is also available.

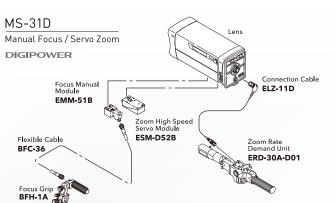


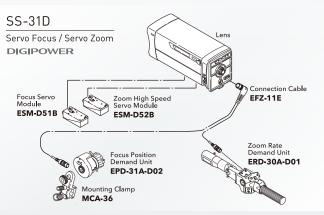


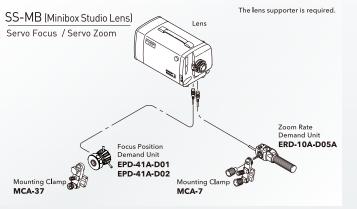
HIGH-DEFINITION						
Model Name	XA99×8.4BESM					
Focal Length (1x)/(2x)	8.4-832m	8.4-832mm / 16.8-1664mm				
Zoom Ratio	99 ×					
Extender	2 ×					
Maximum Relative Aperture (F-No.)	1 : 1.7(8.4-341mm) 1 : 4.15(832mm)					
${\bf MinimumObjectDistance(M.O.D.)fromFrontLens}$	ns 2.95m					
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 8.4mm 832mm	2950 × 1658mm 31 × 17mm	(2×) 16.8mm 1664mm	1538 × 864mm 16 × 9mm		
Angular Field of View 16:9 Aspect Ratio	(1×) 8.4mm 832mm	59.4° × 35.6° 0.7° × 0.4°	(2×) 16.8mm 1664mm	31.9° × 18.2° 0.3° × 0.2°		
Approx. Size	258 × 264	4 × 610mm(HxWxL)				
Approx. Mass	23.5kg					

Studio/Field Lens System Configuration







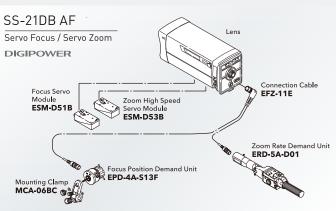


Control Accessories List

			Description	Model Name	
	Lens Focus/Zoom	Servo	Zoom High Speed Module	ESM-D52B/D53B	
	Drive Unit	Digital	Focus Servo Module	ESM-D51B	
	Manual		Manual Focus/Zoom Module	EMM-51B	
	Focus	Servo	Focus Position Demand Unit	EPD-51A-F02	
		Digital	Focus Position Demand Unit	EPD-31A-D02	
			Mounting Clamp for EPD-31A-D01	MCA-36	
			Mounting Clamp for EPD-51A-F02	MCA-51	
			Focus Position Demand Unit	EPD-4A-E12A	
			AF Focus Position Demand Unit	EPD-4A-S13F	
			Mounting Clamp	MCA-06BC	
			Servo Focus Grip	EPA-22	
	Manual		Manual Focus Grip	BFH-1A	
	Zoom Servo Digital		Zoom Rate Demand Unit	ERD-30A-D01	
			Zoom Rate Demand Unit	ERD-5A-D01	
		Manual	Zoom Manual Handle (For HD) Only	BZH-2A	
	Other		Connection Cable (Y Cable for Full-Servo Kit)	EFZ-11E	
			Connection Cable (Cable for Semi-Servo Kit)	ELZ-11D	
			Flexible Cable	BFC-36	
			Range Selector	ERS-51B	
			Macro Remote Contorller	EA-3A-10AB	
			OS-TECH Controller	EA-12A-05BD	
			PC Connection Cable	SA-206D-005	
			Lens Supporter (For BTA Mount)	ELH-112A-35A*	
			Protection Glass (UA27)	EPF-196A	
			Protection Glass (UA70,80,107)	EPF-226C	
			Protection Glass (UA125)	EPF-241	
	*An external power supply is required when you use a supporter (ELH-112A-35A)				

Control Accessories for XA22x7BES (Minibox)

	Description	Model Name		
Focus	Focus Position Demand Unit	EPD-41A-D01/D02		
	Mounting Clamp	MCA-37		
Zoom	Zoom Demand (Featured x2 Extender Remote)	ERD-10A-D05A		
	Mounting Clamp	MCA-7		
Other	Lens Supporter	ALH-117C-02A		





4K Plus Premier Series

Flagship series with surpassing 4K optical performance





Model Name		UA13x4.5BERD		UA22x8BERD	
FocalLength	(1x)/(2x)	4.5-59mm / 9-118mm	4.5-59mm / 9-118mm		
Zoom Ratio		13 x		22 x	
Extender		2 x		2 x	
Maximum Relative Aperture (F-No.)		1:1.8 (4.5-41mm) 1:2.6 (5	59mm)	1:1.8 (8-124mm) 1:2.55 (1	176mm)
Minimum Object Distance (M.O.D.) from Front Lens		0.3m		0.85m	
Object Dimensions at M.O.D. 16: 9 Aspect Ratio		(1×) 4.5mm 744mm × 418mm 59mm 54mm × 30mm	(2×) 9mm 367mm × 206mm 118mm 28mm × 16mm	(1×) 8mm 905mm × 509mm 176mm 43mm × 24mm	(2×) 16mm 472mm 352mm 22mm
Angular Field of View 16:9 Aspect Ratio		(1×) 4.5mm 93.6° × 61.8° 59mm 9.3° × 5.2°	(2×) 9mm 56.1° × 33.3° 118mm 4.7° × 2.6°	(1×) 8mm 61.9° × 37.2° 176mm 3.1° × 1.8°	(2×) 16mm 33.4° 352mm 1.6° ×
FilterThread	ter Thread M127 x 0.75 (Filter attaches to the lens hood)		M127 x 0.75 (Filter attacl	nes to the l ens h	
Approx. Size		Φ95 x 253mm (ΦxLength)		Φ110 x 241.5mm (ΦxLength)	
Approx. Mass		2.28kg (without lens hood)		2.55kg (without lens hood)	







Model Name	UA24x7.8BERD			
Focal Length (1x)/(2x)	7.8-187mm/ 15.6-374mm			
Zoom Ratio	24 x			
Extender	2 x			
Maximum Relative Aperture (F-No.)	1:1.8(7.8-118mm) 1:2.85(187mm)			
Minimum Object Distance (M.O.D.) from Front Lens	0.8m			
Object Dimensions at M.O.D. 16: 9 Aspect Ratio	(1x) (2x) 7.8mm 883mm × 496mm 15.6mm 459mm × 2 187mm 38mm × 21mm 374mm 20mm × 11			
Angular Field of View 16:9 Aspect Ratio	(1×) 7.8mm 63.2° × 38.1° 187mm 2.9° × 1.7° (2×) 15.6mm 34.2° × 1 374mm 1.5° × 0.8			
Filter Thread	M95 x 1/M107 x 1 (Filter attaches to the lens ho			
Approx. Size	Φ100 x 220.5mm (ΦxLength)			
Approx. Mass	1.98kg (without lens hood)			

₹D	UA46x9.5BERD					
	9.5mm-437mm / 19-874	mm				
	46 x					
	2 x					
	1:2.0(9.5mm-224mm) 1:3.9(437mm)					
	2.8m					
459mm × 258mm 20mm × 11mm	(1×) 9.5mm 2653mmx1491mm 437mm 59mmx33mm	(2×) 19mm 1331x748mm 874mm 30x17mm				
34.2° × 19.6° 1.5° × 0.8°	(1×) 9.5mm 53.6°x31.7° 437mm 1.3°x0.7°	(2×) 19mm 28.3°x16.1° 874mm 0.6°x0.4°				
the lens hood)	M127 x 0.75					
	Φ146.5 x 345.8(ΦxLength)					
	5.7kg(without lens hood)					

	UA46x13.5BERD				
	13.5mm-621mm / 27-124	2mm			
	46 x				
	2 x				
	1:2.8(13.5mm-316mm) 1	:5.5(621mm)			
	2.8m				
m	(1x) 13.5mm 1886mmx1060mm 621mm 42mmx24mm	(2×) 27mm 936mmx526mm 1242mm 21mmx12mm			
16.1° 4°	(1×) 13.5mm 39.1°x22.6° 621mm 0.9°x0.5°	(2×) 27mm 20.1°x11.4° 1242mm 0.4°x0.2°			
	M127 x 0.75				
	Φ146.5 x 364.2(ΦxLength)				
	5.8kg(without lens hood	4)			

4K Premier Series

Excellent 4K optical performance for versatile shooting scene





Model Name	UA14x4	I.5BERD	UA18x5.5BERD		
Focal Length (1x)/(2x)	4.5-63mm / 9-126mm	4.5-63mm / 9-126mm			
Zoom Ratio	14 x		18 x		
Extender	2 x		2 x		
Maximum Relative Aperture (F-No.) 1:1.8 (4.5-41mm) 1:2.8(63mm)			1:1.8(5.5-62mm) 1:2.9(100mm)		
Minimum Object Distance (M.O.D.) from Front Lens 0.3 m		0.4m			
Object Dimensions at M.O.D. 16: 9 Aspect Ratio	(1×) 4.5mm 744mm × 418mm 63mm 51mm × 29mm	(2×) 9mm 365mm × 205mm 126mm 27mm × 15mm	(1×) 5.5mm 800mm × 450mm 100mm 44mm × 25mm	(2×) 11mm 395mm × 222mm 200mm 22mm × 12mm	
Angular Field of View 16 : 9 Aspect Ratio	(1×) 4.5mm 93.6° × 61.8° 63mm 8.7° × 4.9°	(2×) 9mm 56.1° × 33.3° 126mm 4.4° × 2.5°	(1×) 5.5mm 82.2° × 52.2° 100mm 5.5° × 3.1°	(2×) 11mm 47.1° × 27.5° 200mm 2.7° × 1.5°	
Filter Thread	M127 x 0.75 (Filter attaches to the lens hood)		M127 x 0.75 (Filter attaches to the lens hood)		
Approx. Size	Φ95 x 238.5mm (ΦxLength)		Φ95 x 240.5mm (ΦxLength)		
Approx. Mass	2.21kg (without lens hood)		2.04kg (without lens hood)		





Model Name	UA18x7.6BERD		UA23x7.6BERD		
Focal Length (1x)/(2x)	7.6-137mm / 15.2-274mm		7.6-175mm / 15.2-350mm	7.6-175mm / 15.2-350mm	
Zoom Ratio	18x	18x		23x	
Extender	2 x		2 x	2 x	
Maximum Relative Aperture (F-No.)	1:1.8(7.6-102mm) 1:2.4(137mm)		1:1.8(7.6-119mm) 1:2.65(175mm)	1:1.8(7.6-119mm) 1:2.65(175mm)	
Minimum Object Distance (M.O.D.) from Front Lens	0.6m		0.8m		
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 7.6mm 696mm × 392mm 137mm 41mm × 23mm	(2×) 15.2mm 362mm × 204mm 274mm 21mm × 12mm	(1×) 7.6mm 915mm × 514mm 175mm 41mm × 23mm	(2×) 15.2mm 473mm × 266mm 350mm 21mm × 12mm	
Angular Field of View 16 : 9 Aspect Ratio	(1×) 7.6mm 64.5°x39° 137mm 4°x2.3°	(2×) 15.2mm 35°x20.1° 274mm 2°x1.1°	(1×) 7.6mm 64.5°x39° 175mm 3.1°x1.8°	(2×) 15.2mm 35°×20.1° 350mm 1.6°×0.9°	
Filter Thread	M82x0.75		M95x1 / M107x1(Filter attaches to lens hood)		
Approx. Size	Φ85x204mm(ΦxLength)		Φ100x221.4mm(ΦxLength)		
Approx. Mass	1.74kg (without lens hood)		1.95kg (without lens hood)	1.95kg (without lens hood)	

Premier Series

Premier Series lenses are designed to complement and enhance the quality of HDTV systems.

Great consideration in the design and development of these high-end HD lenses has been taken to incorporate the highest optical and mechanical specifications while ensuring unmatched performance in the most rugged and demanding of production environments.







Model I	HA14×4.5BERM/BERD				
Focal Length	(1×)/(2×)/(2.2×)	4.5-63mm /-/ 9.9-139mm			
Zoom Ratio		14 ×			
Extender		2.2 ×			
Maximum Relative Aperture (F-No.)		1:1.8(4.5-41mm) 1 : 2.	8 (63mm)	
Minimum Object Distance (M.O.D.) from Front Lens		0.3m			
Object Dimensions at M.O. 16: 9 Aspect Ratio	D.		744 × 418mm 51 × 29mm	(2.2×) 9.9mm 330 × 185mm 139mm 24 × 13mm	
Angular Field of View 16:9 Aspect Ratio			93.6° × 61.8° 8.7° × 4.9°	(2.2×) 9.9mm 51.7° × 30.5° 139mm 4° × 2.2°	
Filter Thread		M127 × 0.75 (Filter attaches to the lens hood.)			
Approx. Size		Φ95 × 238.5mm(ΦxLength)			
Approx. Mas		2.18kg(RM) / 2.26kg(RD) (without lens hood)			

HA18x5.5B	ERM / BERD	HA18×7.6BERM / BERD		
5.5-100mm / 11-200mm	/-	7.6-137mm / 15.2-274mm /-		
18 ×		18 ×		
2 ×		2 ×		
1:1.8(5.5mm-62mm) 1:2	9(100mm)	1:1.8 (7.6-103mm) 1:2	2.4 (137mm)	
0.4m		0.6m		
(1×) 5.5mm 800 × 450mm 100mm 44 × 25mm	(2×) 11mm 395 × 222mm 200mm 22 × 12mm	(1×) 7.6mm 696 × 392mm 137mm 41 × 23mm	(2×) 15.2mm 362 × 204mm 274mm 21 × 12mm	
(1×) 5.5mm 82.2° × 52.2° 100mm 5.5° × 3.1°	(2×) 11mm 47.1° × 27.5° 200mm 2.7° × 1.5°	(1×) 7.6mm 64.5° × 39° 137mm 4° × 2.3°	(2×) 15.2mm 35° × 20.1° 274mm 2° × 1.1°	
M127 x 0.75 (Filter attac	hes to the l ens hood)	M82 × 0.75		
Φ95 × 240.5mm(ΦxLeng	jth)	Φ85 × 204mm(ΦxLength)		
1.97kg(RM) / 2.04kg(RD)	(without lens hood)	1.62kg(RM) / 1.69kg(RD) (without lens hood)		







HIGH-DEFINITION						
Model Name	HA22×7.3BERD		HA23×7.6BERM / BERD		HA25×11.5BERD	
Focal Length (1x)/(2x)	7.3-161mm / 14.6-322mm		7.6-175mm / 15.2-350mm		11.5-288mm / 23-576mm	
Zoom Ratio	22 ×		23 ×		25 ×	
Extender	2 ×		2 ×		2 ×	
Maximum Relative Aperture (F-No.)	1: 1.9(7.3-113mm) 1: 2.7(161mm)		1:1.8 (7.6-119mm) 1:2	2.65 (175mm)	1:2 (11.5-206mm) 1:2	2.8 (288mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.85m		0.8m		2.2m	
Object Dimensions at M.O.D. 16: 9 Aspect Ratio	(1×) 7.3mm 1222 × 687mm 161mm 55 × 31mm	(2×) 14.6mm 609 × 342mm 322mm 28 × 16mm	(1×) 7.6mm 915 × 514mm 175mm 41 × 23mm	(2×) 15.2mm 473 × 266mm 350mm 21 × 12mm	(1×) 11.5mm 1740 × 978mm 288mm 70 × 39mm	(2×) 23mm 870 × 489mr 576mm 35 × 20mm
Angular Field of View 16:9 Aspect Ratio	(1×) 7.3mm 66.6° × 40.5° 161mm 3.4° × 1.9°	(2×) 14.6mm 36.4° × 20.9° 322mm 1.7° × 1°	(1×) 7.6mm 64.5° × 39° 175mm 3.1° × 1.8°	(2×) 15.2mm 35° × 20.1° 350mm 1.6° × 0.9°	(1×) 11.5mm 45.3° × 26.4° 288mm 1.9° × 1.1°	(2×) 23mm 23.6° × 13.4° 576mm 1° × 0.5°
Filter Thread	Filter Thread M127 × 0.75 (Filter attaches to the lens hood.)		$M95 \times 1 / M107 \times 1$ (Filter attaches to the lens hood.)		M107 × 1/ M127 × 0.75 (Filte	er attaches to the lens hood
Approx. Size	Approx. Size $\Phi 110 \times 287.3 \text{mm}(\Phi \times \text{Length})$		Φ100 × 221.4mm(ΦxLength)		Φ110 × 265mm(ΦxLength)	
Approx. Mass	3.22kg(RD) (without ler	ns hood)	1.88kg(RM) / 1.95kg(RD) (without l ens hood)	2.81kg (without lens ho	od)







Model Name	HA25×16.5BERD		
Focal Length (1x)/(2x)	16.5-413mm / 33-826mm		
Zoom Ratio	25 ×		
Extender	2 ×		
Maximum Relative Aperture (F-No.)	1 : 2.8 (16.5-289mm) 1 : 4 (413mm)		
Minimum Object Distance (M.O.D.) from Front Lens	2.2m		
Object Dimensions at M.O.D. 16: 9 Aspect Ratio	(1×) (2×) 16.5mm 1213 × 682mm 33mm 606 × 341mm 413mm 49 × 27mm 826mm 24 × 14mm		
Angular Field of View 16:9 Aspect Ratio	(1×) (2×) 16.5mm 32.4° × 18.6° 33mm 16.5° × 9.3° 413mm 1.3° × 0.7° 826mm 0.7° × 0.4°		
Filter Thread	M107 × 1/M127 × 0.75 (Filter attaches to the lens hood.)		
Approx. Size	Φ110 × 278mm(ΦxLength)		
Approx. Mass	2.9kg (without lens hood)		

HA42×9	7.7BERD	HA42×13.5BERD		
9.7-410mm / 19.4-820mr	n	13.5-570mm / 27-1140r	mm	
42 ×		42 ×		
2 ×		2 ×		
1:2 (9.7-225mm) 1:3.7 (4	410mm)	1:2.8 (13.5-307mm) 1:	5.2 (570mm)	
2.8m		2.8m		
(1×) 9.7mm 2619 × 1472mm 410mm 64 × 36mm	(2×) 19.4mm 1339 × 753mm 820mm 33 × 19mm	(1×) 13.5mm 1888 × 1061mm 570mm 45 × 25mm	(2×) 27mm 944 × 530mm 1140mm 22 × 13mm	
(1×) 9.7mm 52.6° × 31.1° 410mm 1.3° × 0.8°	(2×) 19.4mm 27.8° × 15.8° 820mm 0.7° × 0.4°	(1×) 13.5mm 39.1° × 22.6° 570mm 1° × 0.5°	(2×) 27mm 20.1° × 11.4° 1140mm 0.5° × 0.3°	
M127 × 0.75		M127 × 0.75		
Ф130 × 338.5mm(ФхLeng	yth)	Φ130 × 357.5mm(ΦxLength)		
5.3kg (without lens hood	d)	5.4kg (without lens hoo	d)	

HIGH-DEFINITION 2/3"

Select Series lenses are designed to meet the high performance needs of the next generation of cost-effective high performance HD camera systems. Fujifilm's unique Select Series concept for HDTV lenses was directly derived from our high-end Premier Series technology.







Model Name	ZA12×4.5BERM / BERD		ZA17×7.6BERM / BERD		ZA22×7.6BERM / BERD	
ocal Length (1×)/(2×)	4.5-54mm / 9-108mm		7.6-130mm / 15.2-260r	nm	7.6-167mm / 15.2-334r	nm
oom Ratio	12 ×		17 ×		22 ×	
xtender	2 ×		2 ×		2 ×	
laximum Relative Aperture (F-No.)	mum Relative Aperture (F-No.) 1:1.8 (4.5–41mm) 1:2.4 (54mm)		1:1.8 (7.6-102mm) 1:2	2.3 (130mm)	1:1.8 (7.6-120mm) 1:2	2.5 (167mm)
linimum Object Distance (M.O.D.) from Front Lens	0.3m		0.6m		0.8m	
Object Dimensions at M.O.D. 6 : 9 Aspect Ratio	(1×) 4.5mm 757 × 425mm 54mm 59 × 33mm	(2×) 9mm 373 × 210mm 108mm 31 × 17mm	(1×) 7.6mm 696 × 392mm 130mm 43 × 24mm	(2×) 15.2mm 362 × 204mm 260mm 22 × 12mm	(1×) 7.6mm 915 × 514mm 167mm 43 × 24mm	(2×) 15.2mm 473 × 266mm 334mm 22 × 12mm
ngular Field of View 6 : 9 Aspect Ratio	(1×) 4.5mm 93.6° × 61.8° 54mm 10.1° × 5.7°	(2×) 9mm 56.1° × 33.3° 108mm 5.1° × 2.9°	(1×) 7.6mm 64.5° × 39° 130mm 4.2° × 2.4°	(2×) 15.2mm 35° × 20.1° 260mm 2.1° × 1.2°	(1×) 7.6mm 64.5° × 39° 167mm 3.3° × 1.8°	(2×) 15.2mm 35° × 20.1° 334mm 1.6° × 0.9°
ilter Thread	er Thread M127 × 0.75 (Filter attaches to the lens hood.)		M82×0.75		M95×1 / M107×1 (Filter attaches to the lens hood.)	
pprox. Size $\Phi95 \times 237.5 \text{mm}(\Phi \times \text{Length})$		Φ85 × 203mm(ΦxLength)		Φ100 × 220.4mm(ΦxLength)		
pprox. Mass	ox. Mass 2.0kg (RM) / 2.07kg (RD) (without lens hood)		1.67kg (RM) / 1.74kg (RD) (without lens hood) 1.85kg (RM) / 1.92kg (RD) (without lens ho		D) (without l ens hood)	
	*BRM/BRD type are also a	available. For more informa	ation,please contact neares	t our FUJ IFI LM office.		

HD 2/3"

eXceed Series | eXceed series lenses are designed to compliment a new generation of cost-effective HD camera systems, extracting the most performance with the greatest value.





HIGH-DEFINITION	-/ 5					
Model Name		XA20s×8.5BRM		XA20s×8.5BERM		
Focal Length	(1×)/(2×)	8.5-170mm/-		8.5-170mm / 17-340mm		
Zoom Ratio		20 ×		20 ×		
Extender		-		2 ×		
Maximum Relative Aperture (F-No.)		1:1.8 (8.5-113mm) 1:2.7 (170mm)		1:1.8 (8.5-113mm) 1:2.7 (170mm)		
Minimum Object Distance (M.O.D.) from Front Lens		0.9m		0.9m		
Object Dimensions at M.O.D. 16:9 Aspect Ratio		(1×) 8.5mm 910 × 511mm 170mm 47 × 26mm	(2×) - -	(1×) 8.5mm 910 × 511mm 170mm 47 × 26mm	(2×) 17mm 469 × 264mm 340mm 24 × 13mm	
Angular Field of View 16:9 Aspect Ratio		(1×) 8.5mm 58.9° × 35.2° 170mm 3.2° × 1.8°	(2×) - -	(1×) 8.5mm 58.9° × 35.2° 170mm 3.2° × 1.8°	(2×) 17mm 31.5° × 18° 340mm 1.6° × 0.9°	
Filter Thread		M82 × 0.75		M82 × 0.75		
Approx. Size		Φ85 × 180.8mm(ΦxLeng	gth)	Φ85 × 200.8mm(ΦxLength)		
Approx Mass		1 Elea (without long boo.	۹/	1 / lon /telano e long langual)		

1/2" Series SELECT Series





eXceed Series



4					
XS13×	3.3BRM	ZS17×	5.5BERM	XS20s>	<6.3BRM
2×) 3.3–43mm/-		5.5-94mm / 11-188r	mm	6.3-126mm /-	
13 ×		17 ×		20 ×	
-		2 ×		-	
1:1.4(3.3-32mm)1:	1.9 (43mm)	1 : 1.4 (5.5–77mm) 1 : 1.7 (94mm)		1: 1.4 (6.3-88mm) 1: 2.0 (126mm)	
ens 0.3m		0.6m		0.9m	
(1×) 3.3mm 752 × 423mm 43mm 54 × 30mm	(2×) - -	(1×) 5.5mm 698×399mm 94mm 42×24mm	(2×) 11mm 363 × 204mm 188mm 22 × 12mm	(1×) 6.3mm 904 × 508mm 126mm 47 × 26mm	(2×) - -
(1×) 3.3mm 93.1° × 61.4° 43mm 9.3° × 5.2°	(2×) - -	(1×) 5.5mm 64.7° × 39.2° 94mm 4.3° × 2.4°	(2×) 11mm 35.2° × 20.2° 188mm 2.1° × 1.2°	(1×) 6.3mm 57.9° × 34.6° 126mm 3.2° × 1.8°	(2×) - -
M127 × 0.75 (Filter atta	aches to the lens hood.)	M82 × 0.75		M82 × 0.75	
Approx. Size $\Phi95 \times 240.5 \text{mm}(\Phi \times \text{Length})$		Φ 85 × 206.6mm(Φ xLength)		Φ85 × 181.9mm(ΦxLength)	
1.93kg (without lens ho	ood)	1.67kg (without lens hood)		1.4kg (RM) (without le	ns hood)
	(2x) 3.3-43mm /- 13 × - 1: 1.4 (3.3-32mm) 1: 0.3m (1x) 3.3mm 752 × 423mm 43mm 54 × 30mm (1x) 3.3mm 93.1° × 61.4° 43mm 9.3° × 5.2° M127 × 0.75 (Filter atta	13 × - 1: 1.4 (3.3–32mm) 1: 1.9 (43mm) 0.3m (1x) 3.3mm 54 × 30mm - (1x) 3.3mm 93.1° × 61.4° 43mm 9.3° × 5.2° M127 × 0.75 (Filter attaches to the lens hood.)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2x

1/3" Series

PREMIER Series

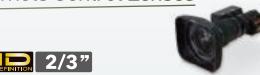




HIGH-DEFINITION	1/3"
Mod	el Name

Model Name	HTs18×4.2BERM		XT17s×4.5BRM		XT20s×4.7BRM	
Focal Length (1x)/(2x)	4.2-76mm / 8.4-152m	m	4.5-77mm /-		4.7-94mm /-	
Zoom Ratio	18 ×		17 ×		20 ×	
Extender	2 ×		-		-	
Maximum Relative Aperture (F-No.)	1:1.4 (4.2-76mm) 1:2	2.8 (8.4–152mm)	1:1.6 (4.5-77mm)		1:1.4 (4.7-88mm) 1:1	I.5 (94mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.6m		0.95m		0.9m	
Object Dimensions at M.O.D. 16: 9 Aspect Ratio	(1×) 4.2mm 697 × 392mm 76mm 41 × 23mm	(2×) 8.4mm 360 × 202mm 152mm 21 × 12mm	(1×) 4.5mm 999 × 562mm 77mm 60 × 34mm	(2×) - -	(1×) 4.7mm 901 × 506mm 94mm 47 × 26mm	(2×) - -
Angular Field of View 16: 9 Aspect Ratio	(1×) 4.2mm 63.8° × 38.6° 76mm 3.9° × 2.2°	(2×) 8.4mm 34.6° × 19.9° 152mm 2° × 1.1°	(1×) 4.5mm 60.3° × 36.2° 77mm 3.9° × 2.2°	(2×) - -	(1×) 4.7mm 58.2° × 34.7° 94mm 3.2° × 1.8°	(2×) - -
Filter Thread	M82 × 0.75		M82 × 0.75		M82 × 0.75	
Approx. Size $\Phi 85 \times 214.1 \text{mm}(\Phi \times \text{Length})$		Φ 85 × 175.6mm(Φ xLength)		Φ85 × 189.8mm(ΦxLength)		
Approx. Mass	1.66kg (without lens ho	ood)	1.28kg (without lens ho	od)	1.48kg (without lens ho	ood)

Remote Control Lenses







HIGH-DEFINITION 4/			
Model Name	,	ZA12×4	.5BMD*
Focal Length	(1×)/(2×)	4.5-54mm / 9-108mm	1
Zoom Ratio		12 ×	
Extender		2 ×	
Maximum Relative Aperture (F-No.)		1:1.8(4.5-41mm)1:2	.4(54mm)
Minimum Object Distance (M.O.D.)		0.3m	
Object Dimensions at M.O.D. 16.9 Aspect Ratio		(1x) 4.5mm 757 × 425mm 54mm 59 × 33mm	(2x) 9mm 373 × 210mm 108mm 31 × 17mm
Angular Field of View 16.9 Aspect Ratio		(1x) 4.5mm 93.6° × 61.8° 54mm 10.1° × 5.7°	(2x) 9mm 56.1° × 33.3° 108mm 5.1° × 2.9°
Filter Thread		M127 × 0.75 (Filter attack	ches to the l ens hood.)
Approx. Size		Φ95 × 237.5mm(ΦxLen	gth)
Approx. Mass		1.88kg (without l ens ho	od)

	ZA17×7	7.6BMD*	ZA22×7.6BMD®			
	7.6-130mm/ 15.2-260)mm	7.6-167mm/ 15.2-334	mm		
	17 ×		22 ×			
	2 ×		2 ×			
	1:1.8(7.6-102mm) 1	: 2.3(130mm)	1:1.8(7.6-120mm) 1	: 2.5(167mm)		
	0.6m		0.8m			
า	(1x) 7.6mm 696 × 392mm 130mm 43 × 24mm	(2x) 15.2mm 362 × 204mm 260mm 22 × 12mm	(1x) 7.6mm 915 × 514mm 167mm 43 × 24mm	(2x) 15.2mm 473 × 266mm 334mm 22 × 12mm		
	(1x) 7.6mm 64.5° × 39° 130mm 4.2° × 2.4°	(2x) 15.2mm 35° × 20.1° 260mm 2.1° × 1.2°	(1x) 7.6mm 64.5° × 39° 167mm 3.3° × 1.8°	(2x) 15.2mm 35° × 20.1° 334mm 1.6° × 0.9°		
	M82 × 0.75		M95×1 / M107×1 (Filter	attaches to the lens hood.)		
	Φ85 × 203mm(ΦxLeng	th)	Φ100×220.4mm(ΦxLength)			
	1.60kg (without lens ho	ood)	1.8kg (without lens hoo	od)		

^{*}BEMD type is also available. For more information, please contact nearest our FUJIFILM office.



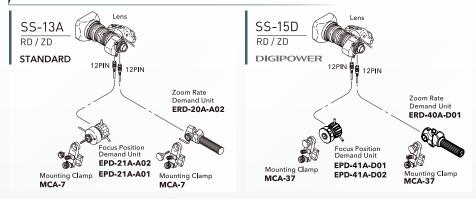


/3"	
V A 0	OO EDEMD

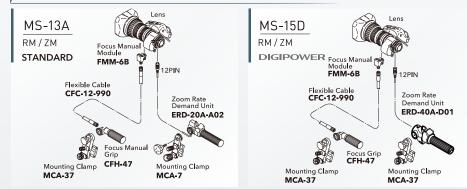
HIGH-DEFINITION	2/3"	2/3"		
Model Name	XA20s×8.5BMD	XA20s×8.5BEMD		
Focal Length (1×)/(2×	8.5–170mm / –	8.5–170mm / 17–340mm		
Zoom Ratio	20 ×	20 ×		
Extender	-	2 ×		
Maximum Relative Aperture (F-No.)	1:1.8(8.5-113mm) 1:2.7(170mm)	1:1.8(8.5-113mm) 1:2.7(170mm)		
Minimum Object Distance (M.O.D.)	0.9m	0.9m		
Object Dimensions at M.O.D. 16.9 Aspect Ratio	(1x) (2x) 8.5mm 910 × 511mm - 170mm 47 × 26mm -	(1x) (2x) 8.5mm 910 × 511mm 17mm 469 × 264mm 170mm 47 × 26mm 340mm 24 × 13mm		
Angular Field of View 16.9 Aspect Ratio	(1x) (2x) 8.5mm 58.9° × 35.2° - 170mm 3.2° × 1.8° -	(1x) (2x) 8.5mm 58.9° × 35.2° 17mm 31.5° × 18° 170mm 3.2° × 1.8° 340mm 1.6° × 0.9°		
Filter Thread	M82 × 0.75	M82 × 0.75		
Approx. Size	Φ85 × 180.8mm(ΦxLength)	Φ85 × 180.8mm(ΦxLength)		
Approx. Mass	1.5kg (without lens hood)	1.6kg (without lens hood)		

ENG/EFP Portable Lens System Configuration

Full-Servo Control Kit [Servo Focus / Servo Zoom]



Semi-Servo Control Kit (Manual Focus / Servo Zoom)



Control Accessories Compatibility (Premier Series, Select Series and Broadcast Lenses)

HA18 × 7.6 BE RM-

		Description	Model Name	RM	RD/ZD
Focus	Manual	Focus Grip	CFH-47	•	•
		Mounting Clamp	MCA-37	•	•
	Flexible Cable	CFC-12-990	•	•	
		Focus Manual Module	FMM-6B	•	•
			FMM-3D (for 46 x series, 42 x series)		•
			FMM-9 (for UA22x8)		•
	Servo	Digital Focus Position Demand Unit	EPD-41A-D01 / D02		•
		Mounting Clamp	MCA-37		•
		Focus Position Demand Unit	EPD-21A-A01 / A02	•	•
		Mounting Clamp	MCA-7	•	•
		Focus Servo Position Module	FSP-13G	★1	
		Digital Shot Box	ESB-6C-E12B		•
		Mounting Clamp	MCA-06BC	•	•
Zoom	oom Servo	Digital Zoom Rate Demand Unit	ERD-40A-D01	•	•
		Mounting Clamp	MCA-37		•
	Zoom Rate Demand Unit	ERD-20A-A02	•	•	
		Mounting Clamp	MCA-7	•	•
Other		VTR Contorl Unit	VRS-20		
		Return Control Unit	EXT-30		
		Lens Supporter	ALH-127A-01A (for 46x series, for 42x serie	es)	
		External OS-TECH Adapter	TS-P58A (HA14,HA18,HA22,HA23,HA	25,HA42)	
		OS-TECH Control Unit	EA-12A-03BA		
		Extention Cable For Focus Position Demand Unit/Zoom Rate Demand Unit	ECE-1000 (1m) / -2000 (2m) / -3000 (3m) -4000 (4m) / -5000 (5m) / -10000 (10n		
		Cable for Lens⇔PC	SA-206D-005 / SA-206A-005 *3		
		2x Extender Change Unit (Motor Drive)	ECU-2C		
		ECU Adapter(for UA22x)	ECU-1AD		
		ECU Adapter(for UA13x)	ECU-2AD		



	1-1	OIS(Alternate)
	1-2	Preset Zoom
AUX1	1-3	Preset Z+F
AUXI	1-4	EXT
	1-5	INCOM(ENG)
	1-6	INCOM(PD)
Zoom Mode	1-7	Z curve select
Switch	1-8	Z curve select
RET2/AUX SEL	2-1	RET2 ⇔ AUX2
RET1	2-2	ON/OFF
RET2	2-3	ON/OFF
	2-4	VTR(REC)
	2-5	EXT
AUX2	2-6	INCOM(ENG)
	2-7	INCOM(PD)
	2-8	OIS(Alternate)

Digital Focus Demand

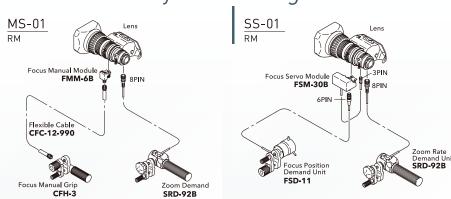
[EPD-41A-D01/ D02

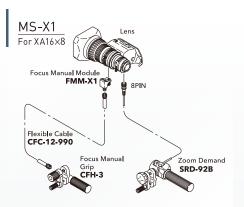


DIP Switch ocus direction	@	– Focus mode switch
	DIP No.	Function
	1	RET1

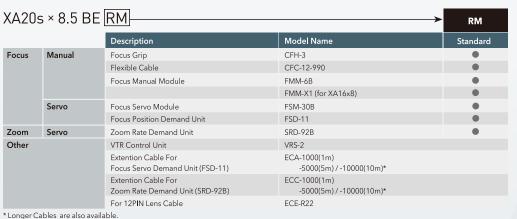
	1	RET1
AUX1	2	AUX1 ⇔ AUX2
	3	RET2
AUX2	4	OIS
	5	PRESET

eXceed Series System Configuration





Control Accessories Compatibility





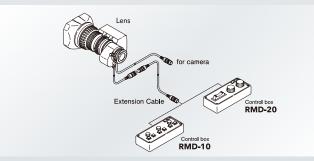
Mount Adapters

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Model Name	Camera	Lens	Note	
ACM-8B	1/2" Sony Bayonet Mount	2/3" Bayonet Mount	Angle of view is approx. 1.3x shifted to tele side	
ACACM-19	1/3" Bayonet Mount	1/2" Sony Bayonet Mount	Angle of view is approx. 1.3x shifted to tele side	
ACM-17	1/3" Bayonet Mount	2/3" Bayonet Mount	Angle of view is approx. 1.6x shifted to tele side	
ACM-21	SONY PMW-300	2/3" Bayonet Mount	Angle of view is approx. 1.4x shifted to tele side	
ACM-24	SONY 1.25" Mount	2/3" Bayonet Mount	Angle of view is approx. 1.7x shifted to tele side.	



Fujifilm has variety of Mount Adapters. For more detail, please ask our sales office.

▼ HD REMOTE CONTROL LENSES

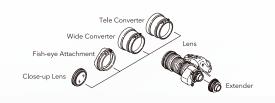


▼ Control Accessories Compatibility

ZA17× 7.6 BE 🔃	10	M MD
Description	Model Name	
Remote Controller	RMD-10	•
	RMD-20	•
Extension Cable	ECM-005M(5m)/-010M(10m)/-020M(20m)/ -030M(30m)/-050M(50m)/-100M(100m)*	
Extender Change Unit	ECU-12A	

Optical Accessories for Portable Lenses

Optical accessories expand the capabilities of FUJINON TV lenses.



Tele Converter

▶ Focal length is multiplied by the magnification of the converter on the telephoto side. ▶ Zooming possible. ▶ The F-No. on the master lens remains unchanged. ▶M.O.D. is increased. ▶Loss of picture edges will occur toward the wide angle side of the zoom range



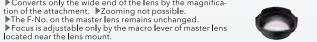
Wide Converter

▶ Focal length is multiplied by the magnification of the converter on the wide side. ▶ Zooming possible. ▶ The F-No. on the master lens remains unchanged. ▶ M.O.D. is



Wide Attachment

▶ Converts only the wide end of the lens by the magnification of the attachment. ▶ Zooming not possible.
▶ The F-No. on the master lens remains unchanged.



Fish-eye Attachment F-AT



Converts only the wide end of the lens by the magnification of master lens remains unchanged. ▶ Focus is adjustable only by the macro lever of master lens located near the lens mount.



Close-up Lens

▶Close-up lens provides a shorter minimum focusing distance between lens and object. ▶Ideal for copy stand or



▶2× range extender mounts between master lens and camera and doubles the focal length of the master lens.
▶F-No. is doubled. ▶Includes back focus adjustment.





LENS			XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7	UA18×7.6 HA18×7.6 HTs18x4.2 ZA17×7.6	UA24x7.8 UA23x7.6 HA23x7.6 ZA22x7.6
				ZS17×5.5	
ront Lens Diameter			Ø	85	ø 100
Model Name	Magnification	Approx. Mass(kg)			
CV-U85	1.5×	1.10		•	
CV-U100	1.5*	1.00			•
VCV-U85	0.8×	1.24		•	
VCV-U100	0.6×	1.20			•
VAT-U85	0.7×	0.36		•	
VAT-U100	0.7×	0.53			•
-ATU85	0.55×	0.71		•	
-ATU100	0.55×	0.67			•
		Approx			

0.42

2.0×

Effects Filter

* AE20B-2 is specifically designed for SDTV lens.

Attach to filter screw portion of the zoom lens.





	Lens Barrel Filter Thread Size	M82×0.75
	Hood Filter Thread Size	_
	Model Name	
	EPF-82	•
)	EPF-95	
)	EPF-107	
	EPF-127	
	EFL-82PL	•
	EFL-95PL	
	EFL-107PLA	
	EFL-127PL	

UCL-8082SC

UCL-8095SC

HAeE14-1

AE20B-2

LENS	UA18×7.6 HA18×7.6 HTs18×4.2 ZA17×7.6 ZS17×5.5 XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7	UA24x7.8 UA23x7.6 HA23x7.6 ZA22x7.6	HA25×11.5 HA25×16.5	UA13x4.5 UA14x4.5 UA18x5.5 UA22x8 HA14x4.5 HA12x7.3 ZA12x4.5 XS13x3.3 HP12x7.6	UA46x9.5 UA46x13.5 HA42×9.7 HA42×13.5
Lens Barrel Filter Thread Size	M82×0.75	M95×1	M107×1	_	M127×0.75
Hood Filter Thread Size	_	M107×1	M127×0.75	M127×0.75	_
Model Name					
EPF-82	•				
EPF-95		•			
EPF-107		•	•		
EPF-127			•	•	•
EFL-82PL	•				
EFL-95PL		•			
EFL-107PLA		•	•		
EFL-127PL			•	•	•

8K LENS

Fujifilm optical lens technology Lenses that support state-of-the-art 8K broadcasting

8K images have approximately 33 million pixels—that's 16 times as many as full HD and four times as many as 4K UHD. Besides its awe-inspiring resolution, 8K offers a wider brightness range and an extended color spectrum, giving rich, detailed gradation and thus gorgeously expressive images.

To bring the world ultra-high-definition 8K broadcasts requires the development of technologies for image input, transmission, and output, and a stable supply of 8K-compatible equipment. Fujifilm responds to today's high-quality-image needs by developing lenses that give full rein to the potential of state-of-the-art 8K broadcasting.



8K 1.25" Mount Series





	INI
1.151	

	IVEVV			
Model Name	HP12	x7.6ERD-S9	HP7.5x8.5-SM	
Focal Length	(1x)7.6-91mm (1.4x)10.64-127.4m	m	(1x)8.5-64mm	
Zoom Ratio	12x		7.5x	
Extender	1.4x		-	
Maximum Relative Aperture(F-No.)	1:3.1(7.6-69mm) 1:4.1(91mm)		1:2.2(8.5-64mm)	
Minimum Object Distance (M.O.D.)from Front Lens	0.3m		0.8m	
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 7.6mm 370x200mm 91mm 29x17mm	(1.4×) 10.64mm 262×143mm 127.4mm 21×12mm	(1×) 8.5mm 1763x992mm 64mm 218x123mm	
Angular Field of View 16:9 Aspect Ratio	(1×) 7.6mm 93.3°x61.8° 91mm 10.1°x5.7°	(1.4×) 10.64mm 74.2°x46.3° 127.4mm 7.2°x4.1°	(1x) 8.5mm 86.9°x56.3° 64mm 14.3°x8.1°	
Filter Thread	M127x0.75		-	
Approx.Size	Φ95x267(ΦxLength)		267.2x249x534(H x W x L)	
Approx.Mass	2.7kg(without lens hood)		25kg	

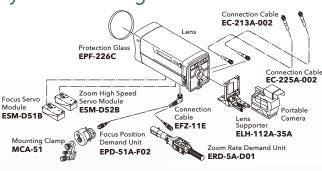




Model Name	HP11x22.5-SM	HP66x15.2-ESM
Focal Length	(1x)22.5-250mm	(1x)15.2-1000mm (1.4x)21.5-1414mm
Zoom Ratio	11x	66x
Extender	_	1.4x
Maximum Relative Aperture(F-No.)	1:2.2(22.5-250mm)	1:2.9(15.2-592mm) 1:4.9(1000mm)
Minimum Object Distance (M.O.D.)from Front Lens	3m	3.7m
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 22.5mm 2409x1355mm 250mm 207x116mm	(1.4×) 15.2mm 3495x1966mm 21.5mm 2502x1408mm 1000mm 55x31mm 1414mm 39x22mm
Angular Field of View 16:9 Aspect Ratio	(1×) 22.5mm 39.4°x22.9° 250mm 3.7°x2.1°	(1.4×) 15.2mm 55.8°x33.3° 21.5mm 41.1°x23.9° 1000mm 0.9°x0.5° 1414mm 0.7°x0.4°
Filter Thread	-	-
Approx.Size	265x272x617.4(H x W x L)	258x264x610(H x W x L)
Approx.Mass	26kg	24.7kg

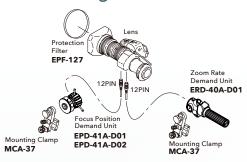
NEW

HP66×15.2-ESM System Configuration



Description	Model Name
Zoom Rate Demand Unit	ERD-5A-D01
Focus Position Demand Unit	EPD-51A-F02
Mounting Clamp	MCA-51
Servo Module	ESM-D51B
Servo Module	ESM-D52B
	EFZ-11E
Connection Cable	EC-213A-002
	EC-225A-002
Lens Supporter	ELH-112A-35A
Protection Glass	EPF-226C

HP12×7.6ERD-S9 System Configuration



Description	Model Name
Zoom Rate Demand Unit	ERD-40A-D01
Focus Position Demand Unit	EPD-41A-D02
Mounting Clamp	MCA-37
Protection Filter	EPF-127
Other	

Other	
Description	Model Name
Close up Lens for SK7.5×19.7	HCL-SH95152SC

8K PL Mount Series







Model Name	SK3x12-SM	SK7.5x19.7-SM	SK20x35-ESM
Focal Length	(1x)12-36mm	(1x)19.7-148mm	(1x)35-700mm (1.4x)49-980mm
Zoom Ratio	3x	7.5x	20x
Extender	_	-	1.4x
Maximum Relative Aperture(F-No.)	1:2.8(12-36mm)	1:2.8(19.7-148mm)	1:2.8(35-315mm) 1:4.8(700mm)
Minimum Object Distance (M.O.D.)from Front Lens	0.4m	1.2m	3.5m
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1×) 12mm 945x532mm 36mm 304x171mm	(1x) 19.7mm 1663x936mm 148mm 216x122mm	(1x) (1.4x) 35mm 2631x1480mm 49mm 1927x1084mm 700mm 132x74mm 980mm 97x55mm
Angular Field of View 16:9 Aspect Ratio	(1×) 12mm 91.4°x59.8° 36mm 37.7°x21.7°	(1x) 19.7mm 64.0°x38.6° 148mm 9.5°x5.3°	(1×) (1.4×) 35mm 38.7°x22.3° 49mm 28.2°x16.0° 700mm 2.0°x1.1° 980mm 1.4°x0.8°
Filter Thread	M152x1	M149x1	-
Approx.Size	Ф160 x 379.2(ФхLength)	Φ160 x 417.5(ΦxLength)	258x264x714(H x W x L)
Approx.Mass	7.4kg(without lens hood)	9.7kg(without lens hood)	31.2kg

Horizontal Fig	eld of View (16:9)	93.3	91.4	86.9	64.0	55.8	39.4	38.7	37.7	14.3	10.1	9.5	3.7	2.0	0.9
	1.25" Format*1	7.6		8.5		15.2	22.5			64	91		250		1000
Focal Length	S35mm Format*2		12		19.7			35	36			148		700	
	2/3" Format Equivalent	4.5	4.7	5.1	7.7	9.0	13.4	13.7	14.0	38.1	54.1	57.7	148.6	273.0	594.6
HP12 × 7.	6ERD-S9														
HP7.5×8	.5-SM														
HP11×22	2.5-SM														
HP66×15	5.2-ESM														
SK3×12-	SM			-											
SK7.5×19	9.7-SM														
SK20×35	5-ESM														

FUJINON Cine Lenses

Fujifilm has been developing the FUJINON Cine Lens since 2002. We are not only making excellent use of our optical, mechanical, and electronic knowledge which have been cultivated in the broadcast lens field, but we also have enhanced those technologies to achieve superb Cine Lenses. FUJINON Cine Lenses allow cinematographers to explore the possibility of creating new images around the world that represent the broad range of human emotions.



Premista Series

Premista Series support large-format sensors and deliver outstanding high resolution, beautiful bokeh and rich gradation with HDR (high dynamic range). The Premista Series can bring out the maximum capability of large format sensors, which are increasingly being adopted into cinema camera, to provide robust support for high-quality video production.



HK Premier Series

Fujifilm engineers exhaustively develop the HK Premier Series utilizing our expertise and knowledge gained from the lens design process honed over many years.

The contrast performance is rich, the resolution -





ZK Cabrio Series

The ZK Cabrio Series features a unique detachable servo drive unit*. With the drive unit, these lenses operate like traditional ENG TV lenses thanks to the same interface and accessories familiar to TV lens users. On the other hand, with the drive unit removed, this lens has standard 0.8 cine gearing, allowing for the use of traditional third party cine accessories.



*Servo drive unit for ZK 12x25 is optionally available.

XK Cabrio Series

The XK Cabrio Series also equip operational features of ZK Cabrio Series. The lens offers 4K compatible optical performance and covers a wide range of focal length from 20mm to 120mm.



It also realizes T3.5 brightness in the entire zoom range. Various scenes can be shot with this single lens.

MK Series

The MK series offers T2.9 speed through 18-55mm and 50-135mm focal length. The lenses achieve advanced optical performance into their compact and lightweight body, thanks to Super 35mm / APS-C sensor compatibility and dedicated E-mount design. They minimize focal shift and optical axis shift while zooming, and lens breathing that are typically observed in interchangeable lenses for digital cameras.





Overwhelming Quality and a Wide Range of Focal Lengths

Superb Optical Performance Delivering the Full Benefits of a Large Format Sensor

Adopting large diameter aspherical elements, Premista achieves stunning optical quality and low distortion from the center to the corner, capturing both the feeling and texture of the subjects. Furthermore, by combining newly developed focus and zoom systems, they deliver clean and sharp imagery with minimum color aberrations regardless of zoom position or distance from the subject, which rivals the performance of a prime lens.



Performs Well with High Dynamic Range for Expanding the Visual Expression

Unwanted flare and ghosts are well suppressed thanks to in-house optical calculation software. Premista performs well with the high dynamic range of a large format sensor. The color is natural and neutral due to the choice of glass elements and coatings. It's matched with Fujifilm's current cine lens lineup to simplify color grading that is required when using a combination of multiple lenses.



Covering the Frequently-used

Range of Focal Lengths from

28-250mm with 2 Lenses

The lineup includes a standard zoom lens

(28-100mm) and a telephoto zoom lens (80-250mm).

Combining these two lenses, they cover the most

frequently used focal lengths of 28-250mm.

Premista also features a constant T2.9 aperture

(through 200mm on the telephoto zoom). Unlike

when using a prime lens, they save both time and

cost caused by changing lenses frequently.



Tobias A. Schliessler, ASC

"I've been a fan of the FUJINON Zoom lenses since my first experience on Lone Survivor, where I used the 19-90mm Cabrio and the Premier zooms for the first time, I have since used them on all on my spherical feature films and commercials. I am happy to have the Premista for my large format work. The lens has the same contrast, sharpness, color characteristics, quality, and lack of lens breathing as the Premier zooms."

Premista Series

Horizontal Field	-f\/:/1/.0\	65.5	25.4	20.4	8.2	
Horizontal Field	of view (16:9)	05.5	23.4	20.4	0.2	
	Large format*1	28	80	100	250	
Focal Length	S35mm Format*2	19	54	68	170	
	2/3" Format Equivalent	6.7	19	23.8	59.4	
Premista28-	-100mm T2.9					
Premista80-	-250mm T3.5-3.9					
*1 Sensor size:36x2	24 *2 Sensor size:27.45x	15.44	·	'		







Excellent Usability for Professional Use

Combining Lightweight and High Durability

The Premista design combines both a lightweight of 3.8kg and compact size as well as the durability FUJINON lenses are known for even in the harsh conditions of professional use. These zoom lenses are especially convenient when used on a crane or a helicopter where it is difficult to access the lens.

Accurate and Comfortable Operation to Assist Film Crews

The focus ring features a rotation of a full 280 degrees to facilitate precise focusing even with a shallow depth-of-field. In addition, a Flange Focal Distance adjustment function with a hex set screw is standard in order to easily achieve optimum camera and lens matching, thereby bringing out the lenses' full optical performance even if there are sudden changes of temperature.

Efficient Work Flow Compatible with ZEISS eXtended Data*1

The Premista series is compatible with the "ZEISS eXtended Data" system developed by ZEISS based on the open /∄ Technology*² standard. It enables the recording of lens metadata (focus, zoom, and iris position) and lens distortion and shading corrections.*3

- *1: Available via firmware update.
- *2: /8 is a registered trademark of Cooke Optics Limited used with permission.
- *3: Compatible devices are required depending on the cameras to be used.





Model Name	Premista 28-100mmT2.9	Premista 80-250mmT2.9-3.5
Focal Length	28-100mm	80-250mm
Aperture	T2.9	T2.9(80-200mm) / T3.5(250mm)
Lens Mount	PL mount	PL mount
Compatible Image Size (diagonal)	46.3mm	46.3mm
Close Focus	0.8m / 2ft 7in	1.5m / 4ft 11in
Angular Field of View (H×V) 40.96mm x 21.60mm*4	28mm: 72.4° × 42.2° 100mm: 23.1° × 12.3°	80mm: 28.7° × 15.4° 250mm: 9.4° × 4.9°
Angular Field of View (H×V) 36mm x 24mm*5	128mm: 65.5° × 46.4° 100mm: 20.4° × 13.7°	80mm: 25.4° × 17.1° 250mm: 8.2° × 5.5°
Angular Field of View (H×V) 27.45mm x 15.44mm*6	28mm: 52.2° × 30.8° 100mm: 15.6° × 8.8°	80mm: 19.5° × 11.0° 250mm: 6.3° × 3.5°
Focus Rotation	280°	280°
Zoom Rotation	120°	120°
Iris Rotation	48°	48°
Iris Blades	13	13
Front Diameter	114mm	114mm
Length (approx.)	255mm / 10in	255mm / 10in
Weight (approx.)	3.8kg / 8.4lbs.	3.8kg / 8.4lbs.

*4: Aspect ratio 1:1.90 *5: Aspect ratio 1:1.50 *6: Aspect ratio 1:1.78

HK ZK XK MK Series

Exceptional Lens Design Delivers Outstanding Optical Performance

FUJINON Cine Lenses deliver outstanding optical performance thanks to the combination of fluorite elements, extra-low-dispersion (ED) glass and large-aperture aspheric lenses to suppress aberrations. Image resolution from edge to edge has been dramatically improved while minimizing distortion and fluctuations in angle of view during focusing. In addition, variations in optical performance are reduced when zooming, providing superb images over the entire zoom range from wide to telephoto. Plus, our unique HT-EBC coating achieves high transmittance and low reflectance, enabling an image expression with rich color reproduction.

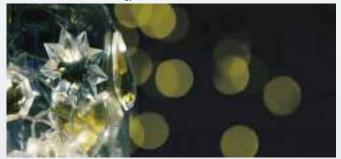


9-Blade Iris for Natural Bokeh*1

HK ZK XK MK

In developing the 9-blade diaphragm for these FUJINON Cine Lenses, extensive simulations were performed to optimize the number and shape of the blades to render out-of-focus areas more naturally. Light generated when shooting point light sources are more circular, making it possible to render a more pleasing, natural bokeh.

*1 The Premista series uses a 13-blade diaphragm to provide a even more natural bokeh based on the latest technology



▼ Detachable Digital Servo Grip*²

ZK and XK Series lenses feature an advanced "Detachable" drive unit, a first in the Light Weight Zoom category. These lenses feature hybrid technologies from both our broadcast and cine lenses.

With the drive unit attached, these lenses can be operated like traditional ENG TV lenses thanks to the same interface and accessories. This is exceptionally helpful in simplifying and reducing set up time. Therefore, it is not necessary to use more complicated cine lens drive systems.

*2 Mounted as standard in ZK14-35mm T2.9, ZK19-90mm T2.9, ZK85-300mm T2.9-4.0 and XK20-120mm T3.5; optional on the ZK25-300mm T3.5-3.85.



Mechanical design for good manual operability

HK ZK XK MK

FUJINON Cine lenses are designed by emphasizing good manual operability.

Operation is smooth with free of torque changes and jerkiness.

Smooth focusing with no torque variation or friction helps accurate focus adjustment.

The gear rings for focus, zoom and iris adjustment have a pitch of 0.8M, the same as existing FUJINON cine lenses, for compatibility with standard cine accessories.

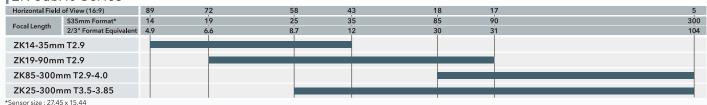
An original universal font for markings offers excellent visibility in any shooting situation.



HK Premier Series

Horizontal Field	of View (16:9)	79	67	53	30	18	16	7.6	3.4
Exactly an oak	S35mm Format*	14.5	18	24	45	75	85	180	400
Focal Length	2/3" Format Equivalent	5.8	7.2	9.6	18	30	34	72	160
HK14.5-45r	mm T2.0								
HK18-85mr	n T2.0								
HK24-180m	nm T2.6								
HK75-400n	nm T2.8-3.8								
Sensor size : 24.0	x 13.5			'	'			'	

ZK Cabrio Series



XK Cabrio Series Now available without drive unit

1,						
Horizontal Field	of View (16:9)	64	12			
Facal Laureth	S35mm Format*	20	120			
Focal Length	2/3" Format Equivalent	7.7	46.3			
XK20-120m	nm T3.5					

*Sensor size : 24.84 x 13.97

MK Series

Horizontal Field	of View (16:9)	69.2	27.9	25.4	10.5	
Exactly an oak	S35mm Format*	18	50	55	135	
Focal Length	2/3" Format Equivalent	6.9	19.3	21.2	52.1	
MK18-55mi	m T2.9					
MK50-135n	nm T2.9					
*Sensor size : 24.8	4 x 13.97	'	'	· ·	'	

Power supply

ZK XK

The power for the servo drive unit is available via a hot-shoe mount or external power supply.*1

For the external power supply, you can connect to the camera (12 pin) or power-supply box (XLR 4 pin / D-tap) by optional cables.

Fquipped16 bit encoder

16bit encoder provides accurate information of zoom, focus and iris settings, which matches highprecision virtual systems.

Lens-data communication system

ZK XK

FUJINON Cine lenses support ARRI LDS system and Cooke /i Technology, which are widely employed in cinema cameras. It allows users to transmit the data of the lens position to the camera and thus to enhance the efficiency of operation.*2

- *1: Power supply for the lens varies according to the type of camera.
- *2: Lens-data communication system is available with the drive unit attached. Cameras need to be compatible with the communication system.

Compatible with the existing operation accessories

ZK XK

FUJINON Cine lenses can be used with existing wired zoom and focus demands for control, which offers the operability equivalent to conventional TV camera lenses.



ZK / XK series switch for activating functions of the driving unit

Upper side switch

- (1) Quick Zoom ON/OFF switch
- (2) VTR-Quick Zoom switch
- (3) Return-Quick Zoom switch
- (4) Iris default setting for Auto-Manual switch
- (5) Auto-cruising Zoom ON/OFF switch
- (6) Back-up switch
- (7) Iris A-M position selector switch
- (8) Back-up switch
- (4) Back-up switch

Lower side switch

function ON/OFF switch

(1) Camera communication ON/OFF switch

(2) Camera communication method selector switch (ON: ARRI LDS; OFF: Cooke /i)

(3) Analog Zoom Demand and Zoom Mode

*The power supply for running the servo drive unit of the ZK series lens varies depending on the camera to be attached.

HK Premier Series





Model Name	HK14.5-45mm T2.0	HK18-85mm T2.0
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	14.5-45mm	18-85mm
Zoom Ratio	3.1 ×	4.7 ×
T-No.	T2.0	T2.0
Compatible Image Size(diagonal)	Maximum 27.5mm	Maximum 27.5mm
Iris Blades	9	9
M.O.D.from Image Planes	0.71m / 2ft 4in	0.82m / 2ft 8in
Object Dimensions at M.O.D. 1.78: 1 Aspect Ratio*	14.5mm 693 × 390mm 45mm 215 × 121mm	18mm 656 × 369mm 85mm 139 × 78mm
Angular Field of View 1.78: 1 Aspect Ratio*	14.5mm 79.2° × 49.9° 45mm 29.9° × 17.1°	18mm 67.4° × 41.1° 85mm 16.1° × 9.1°
Focus Rotation	280°	280°
Zoom Rotation	160°	160°
Apporox. Size	Φ136 × 310mm(ΦxLength)	Φ136 × 352mm(ΦxLength)
Apporox. Mass	6.5kg	7.0kg





Model Name	HK24-180mm T2.6	HK75-400mm T2.8-3.8
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	24-180mm	75-400mm
Zoom Ratio	7.5 ×	5.3 ×
T-No.	T2.6	T2.8(75-290mm) T3.8(400mm)
Compatible Image Size(diagonal)	Maximum 27.5mm	Maximum 27.5mm
Iris Blades	9	9
M.O.D.from Image Planes	1.24m / 4ft 1in	2m / 6ft 7in
Object Dimensions at M.O.D. 1.78: 1 Aspect Ratio*	24mm 924 × 520mm 180mm 119 × 67mm	75mm 580 × 326mm 400mm 113 × 64mm
Angular Field of View 1.78: 1 Aspect Ratio*	24mm 53.1° × 31.4° 180mm 7.6° × 4.3°	75mm 18.2° × 10.3° 400mm 3.4° × 1.9°
Focus Rotation	280°	280°
Zoom Rotation	160°	160°
Apporox. Size	Φ 136 × 405mm(Φ xLength)	Φ136 × 444mm(ΦxLength)
Apporox. Mass	8.9kg	9.1kg

ZK Cabrio Series





Model Name	ZK14-35mm T2.9	ZK85-300mm T2.9-4.0
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	14-35mm	85-300mm
Zoom Ratio	2.5 ×	3.5 ×
T-No.	T2.9	T2.9(85-218mm) T4.0(300mm)
Compatible Image Size(diagonal)	Maximum 31.5mm	Maximum 31.5mm
Iris Blades	9	9
M.O.D.from Image Planes	0.6m / 2ft	1.2m / 3ft 11in
Object Dimensions at M.O.D. 1.78:1 Aspect Ratio**	14mm 701 × 394mm 35mm 275 × 155mm	85mm 274 × 154mm 300mm 79 × 44mm
Angular Field of View 1.78:1 Aspect Ratio**	14mm 88.9° × 57.7° 35mm 42.8° × 24.9°	85mm 18.3° × 10.4° 300mm 5.2° × 2.9°
Focus Rotation	200°	200°
Zoom Rotation	120°	120°
Approx. Size	Φ 114 × 231mm(Φ xLength)	Φ114 × 249mm(ΦxLength)
Approx. Mass	2.9kg (with Drive Unit) / 2.4kg (without Drive Unit)	3.1kg (with Drive Unit) / 2.6kg (without Drive Unit)





		1000
Model Name	ZK19-90mm T2.9	ZK25-300mm T3.5-3.85
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	19–90mm	25-300mm
Zoom Ratio	4.7 ×	12 ×
T-No.	T2.9	T3.5(25-273mm) T3.85(300mm)
Compatible Image Size(diagonal)	Maximum 31.5mm	Maximum 31.5mm
Iris Blades	9	9
M.O.D.from Image Planes	0.85m / 2ft 9in	1.2m / 3ft 11in
Object Dimensions at M.O.D. 1.78:1 Aspect Ratio**	19mm 917 × 516mm 90mm 193 × 109mm	25mm 937 × 527mm 300mm 77 × 43mm
Angular Field of View 1.78:1 Aspect Ratio**	19mm 71.7° × 44.2° 90mm 17.3° × 9.8°	25mm 57.5° × 34.3° 300mm 5.2° × 2.9°
Focus Rotation	200°	280°
Zoom Rotation	120°	120°
Approx. Size	Φ114 × 226mm(ΦxLength)	Φ 136 × 401mm(Φ xLength)
Approx. Mass	2.8kg (with Drive Unit) / 2.3kg (without Drive Unit)	8.4Kg (without optional Drive Unit)

XK Cabrio Series



			"Now Available without drive unit
Model Name	XK20-120mm T3.5		
Application	35mm PL Mount Camera		
Focal Length	20-120mm		
Zoom Ratio	6 ×		
T-No.	T3.5		
Compatible Image Size(diagonal)	Maximum 28.5mm		
Iris Blades	9		
M.O.D.from Image Planes	1.1m / 3ft 7in		
Object Dimensions at M.O.D. 1.78:1 Aspect Ratio**	20mm 120mm	1109 × 624mm 182 × 102mm	
Angular Field of View 1.78:1 Aspect Ratio**	20mm 120mm	63.7° × 38.5° 11.8° × 6.7°	
Focus Rotation	200°		
Zoom Rotation	90°		
Approx. Size	Φ114 × 239mm(ΦxLength)		
Approx. Mass	2.9kg (with Drive Unit) / 2.4kg (without Drive Unit)		

MK Series





Model Name	MK18-55mm T2.9	MK50-135mm T2.9
Application	Super 35mm/APS-C E-mount Camera	Super 35mm/APS-C E-mount Camera
Focal Length	18-55mm	50-135mm
Zoom Ratio	3.0 x	2.7 x
T-No.	T2.9	T2.9
Compatible Image Size(diagonal)	Maximum 28.5mm	Maximum 28.5mm
Iris Blades	9	9
M.O.D.from Image Planes	0.85m/2ft 9in	1.2m/3ft 11in
Object Dimensions at M.O.D. 1.78:1 Aspect Ratio**	18mm 924mm × 520mm 55mm 291mm × 164mm	50mm 534mm x 300mm 135mm 196mm x 110mm
Angular Field of View 1.78:1 Aspect Ratio**	18mm 69.2°× 42.4° 55mm 25.5°× 14.5°	50mm 27.9° x 15.9° 135mm 10.5° x 5.9°
Focus Rotation	200°	200°
Zoom Rotation	90°	90°
Approx. Size	Φ85mm x 206mm(ΦxLength)	Φ85mm x 206mm(ΦxLength)
Approx. Mass	980g	980g

FUJINON Lens Accessory Guide

ZK14-35mm T2.9 / ZK19-90mm T2.9 / ZK85-300mm T3.5-3.85 ZK25-300mm T3.5-3.85 Lens Lens

*Connection cable for external power source is necessary when the power source (over 10V, 1A) can't be supplied from a camera.

Control Accessories List

	Description	Model Name	
Focus Demand	Digital Focus Position Demand	EPD-41A-D01 / D02	
	Mounting Clamp	MCA-37	
	Standard Focus Position Demand	EPD-21A-A01/A02	
	Mounting Clamp	MCA-7	
Zoom Demand	Digital Zoom Demand (Featured Iris Remote Control)	ERD-40A-D01	
	Mounting Clamp	MCA-37	
	Zoom Rate Demand Unit	ERD-20A-A02	
	Mounting Clamp	MCA-7	
Other	Lens Hood for ZK4.7x19, ZK3.5x85	HS-304A-114	
	Lens Hood for ZK2.5x14	HS-304B-114	
	Digital Servo Module (Disigned for ZK12x25)	ESM-15A-SA	
	Power Source Cable (Lens:20pin - XLR4pin), L=120cm	SA-206K-1R2	
	Power Source Cable (Lens:20pin - Camera:12pin), L=120cm	SA-206M-1R2	
	Power Source Cable (Lens:20pin - Camera:12pin), L=40cm	SA-206M-R40	



FUJINON Lens Maintenance

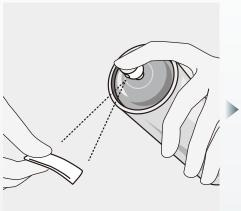
Maintaining high performance levels far into the future

Lens Cleaning

Use commonly available lens cleaner and lens cleaning paper.



First, remove the lens cover and brush the dust from the lens surface with a soft brush or blower brush.



Fold the lens paper into an appropriate size and moisten a part of it with lens cleaner.



Gently wipe the lens with the moistened lens paper in a circular motion, from the center to the edges. Take a dry piece of lens paper and wipe until all smears disappear.

Moisture Removal

If water seeps through to the inner part of the lens, quickly wipe all remaining water on the outer part of the lens with a dry cloth. Next, place the lens into a sealable vinyl bag with a drying agent, seal the bag and allow to completely dehumidify.

Storage

If the lens will not be used for some time, please store it away from high temperatures, high humidity and corrosive gases. High temperatures and high humidity are particular causes of mold. Mold is able to thrive in temperatures of between 20-28°C and between 60-80% humidity levels.

Caution

The lens consists of an optical unit and a power unit. Both units are held in place with screws. Please DO NOT unscrew the units. If the units are separated, the mechanism of the power unit will require realignment.

If you encounter any problems during use, please contact your sales representative or our Service Center.

We recommend that lenses be inspected on a regular basis at least once a year to maintain high performance over the long term.