

FUJIFILM

Value from Innovation



Focused on the Future

FUJINON

TELEVISION LENSES & CINE LENSES 2025

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 **UA** 107 x 8.4 B E SM - T 35 K

1	Camera Image Sensor Format	UA	4K-UHD 2/3" Sensor Format
		XA	HD 2/3" Sensor Format
		HA	2/3" Sensor Format
2	Zoom Ratio		
3	Wide End of Focal Length		
4	Bayonet Mount		
5	Extender	E	with Extender
6	Lens Control Type	SM	Servo / Manual Module Interchangeable
		S	Servo Only
7	Lens Type	S/T	Field Lens with OS-TECH
		F	Studio Lens
8	Lens Mount	35/45	For Studio Standard Camera Mount (BTA Type)
9	Special Function	E	with 1.2x Extender
		K	with AF

ENG / EFP Portable Lenses

1 **U** **A** 46 x 9.5 B E RD RM - **U** K

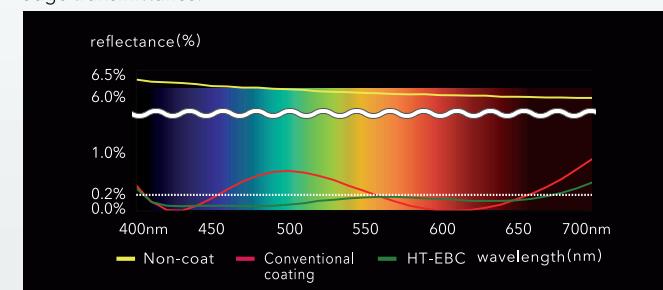
1	ENG / EFP Portable Lens Category	U	UHD Premier Series
		H	High Definition Premier Series
		Z	High Definition Select Series
		X	High Definition eXceed Series
2	Camera Image Sensor Format	A	2/3" Sensor Format
		S	1/2" Sensor Format
		T	1/3" Sensor Format
3	Zoom Ratio		
4	Wide End of Focal Length		
5	Bayonet Mount		
6	Extender	E	with Extender
7	Lens Control Type	RM	Zoom Servo, Focus Manual
		RD	Zoom Servo, Focus Servo
		MD	Remote Control
		M	Digital Drive Unit / Zoom Servo, Focus Manual
		S	Digital Drive Unit / Zoom Servo, Focus Servo
		XB1	Digital Drive Unit / Zoom Servo, Focus Manual, F.f Switch
		XB2	Digital Drive Unit / Zoom Servo, Focus Manual, F.f Switch, Virtual Connector
		U	Digital Drive Unit / Zoom Servo, Focus Servo, with OS-TECH
		G	Digital Drive Unit / Zoom Servo, Focus Servo, with OS-TECH, Extender Remote
		T	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

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.

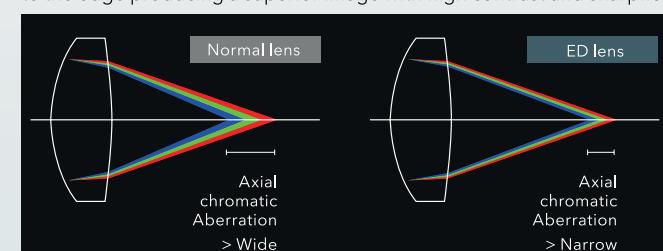
HT-EBC Coating (High Transmittance Electron Beam Coating)

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.



ED-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

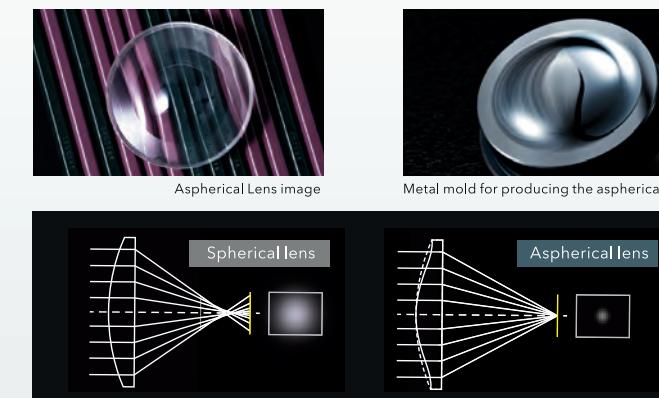
Fujifilm has been doing research and development for 8K Super Hi-Vision lenses. The Super Hi-Vision system offers an image beyond ultra high definition with 4,320 scanning lines and 33,000,000 pixels, 16 times that of the High-Vision system. A lens developed for Super Hi-vision must feature extremely 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 substances.

Award of FUJINON Lens

Emmy Award

1996
Development of a TV Lens Adapted to CCD

2005
Developing High-Performance Lenses Adapted to Hi-Vision

2009
Precision Focus Technology

2017
Development of cine zoom lenses

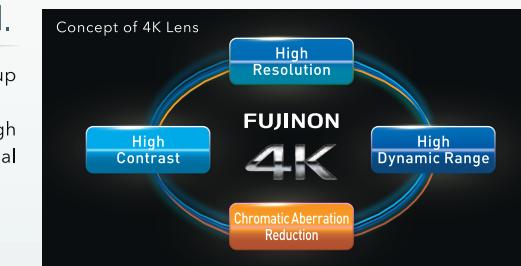


4K Ultra HD 2/3" Lenses for Broadcast -UA Series-

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 meets the challenge.

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 by improving MTF even for low-frequency objects that are generally common in the image.

Chromatic Aberration Reduction

The combination of fluorite ED (extra low dispersion) and super ED lens elements minimizes color fringing and delivers clear, crisp images.

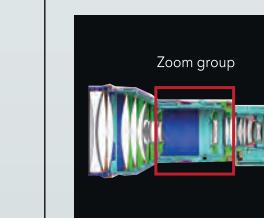
High Dynamic Range

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.

Key technology

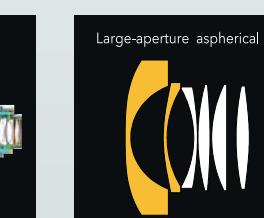
1. Multi-group zoom system

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



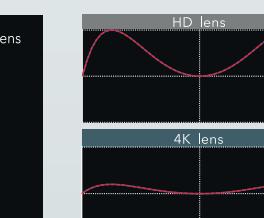
2. Large-aperture aspherical lens

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



3. Improved surface accuracy

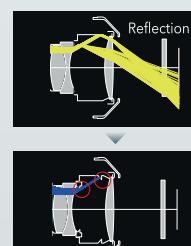
Development of new polishing techniques and improvements in measurement precision achieve surface accuracy more than three times higher than that of HD, contributing to higher image quality.



Key technology

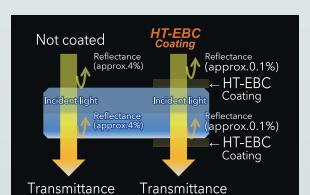
4. Development of new barrel design

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



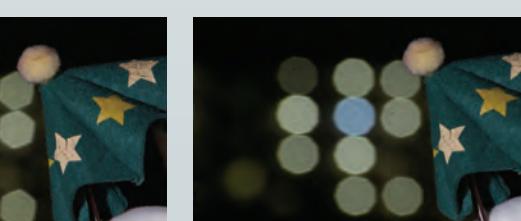
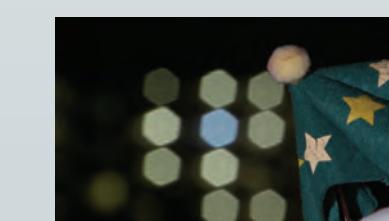
5. New coating system

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

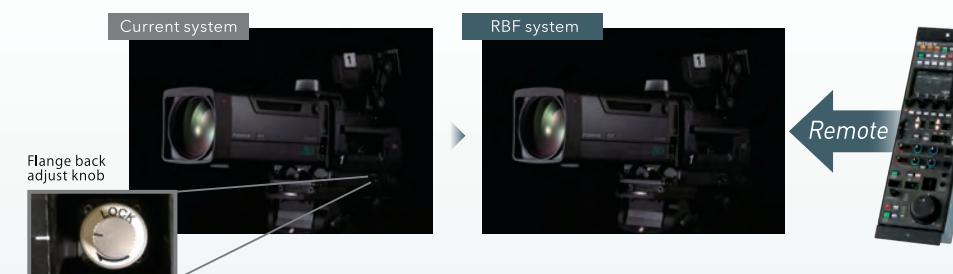
By adopting nine iris blades, FUJINON 4K lenses achieve a nearly circular aperture. This makes it possible to render images taking full advantage of a softer, more natural bokeh.



Six iris blades Nine iris blades

Remote Back Focus (RBF)

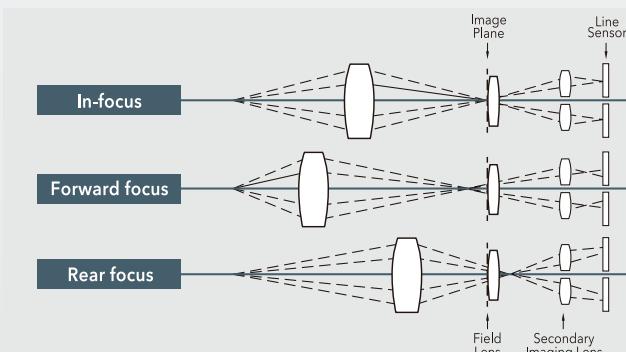
RBF enables precise remote control of back focus adjustments via the camera or robotic control panel while viewing a large video monitor in a studio production control room or mobile unit. During set up or if the shooting environment changes due to temperature, etc., the lens can be adjusted remotely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



Advanced Focus System

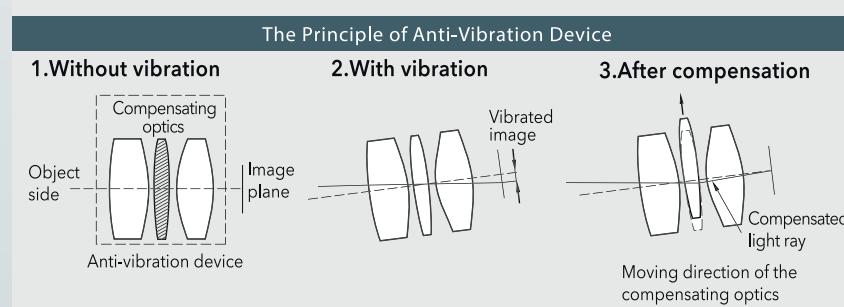


The AF system uses FUJINON's proprietary phase detection system, enabling instant focusing without having to search for focus. This increases accuracy even in situations where focus is difficult to determine in the viewfinder. When shooting video, the operator can concentrate on zooming without worrying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



Optical Stabilized Technology OS-TECH

OS-TECH features "The Optical Shift 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 QuickZoom

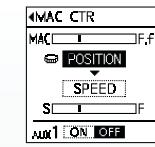
Quick Zoom is a function to temporarily zoom to a telephoto position simply by pressing and holding a switch. Releasing the switch returns the lens to its original position. Since it moves at maximum speed from the originating position to the telephoto end, it enables quick focus checks and fine tuning—helpful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

Macro Function

Macro function can be activated from the ERD-50A-D01. As the focus position and speed is adjustable from the LCD panel, it can also be used to create natural bokeh scene effectively.

	Macro ON
UA27x6.5BESM	0.05m
UA70x8.7BESM	0.3m
UA107x8.4BESM	0.3m
UA125x8BESM	0.3m
HZK25-1000mm	0.7m

*From front lens at wide end

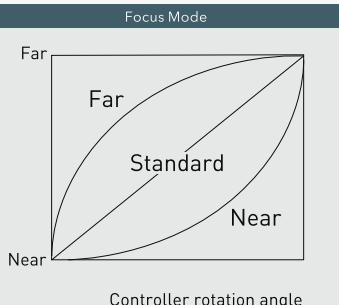
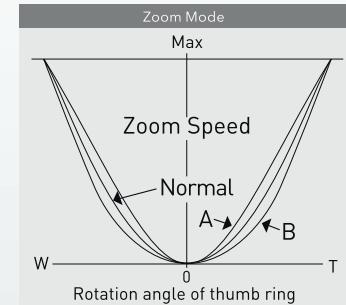


Zoom Rate Demand Unit ERD-50A-D01

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.

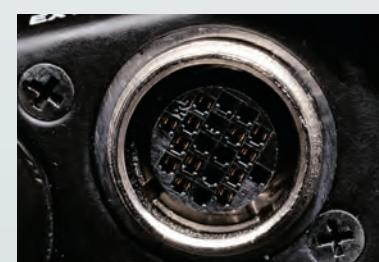


One Shot Preset

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.

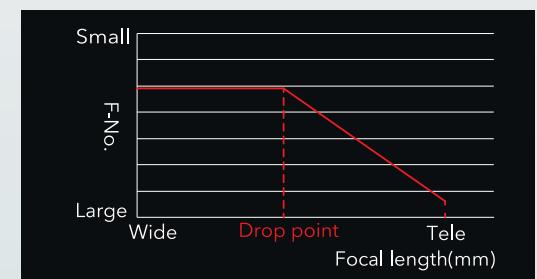
Virtual Connector

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.



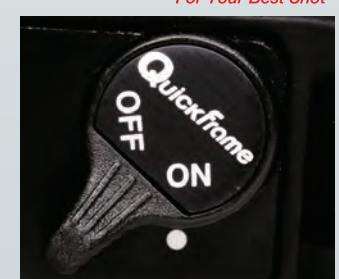
F-Number Hold

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.



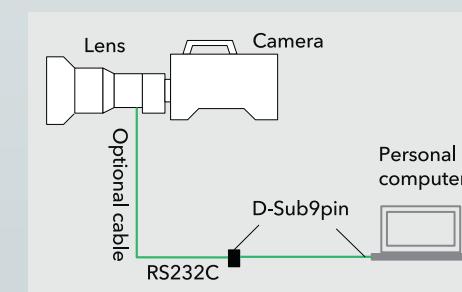
Quick Frame (Optional)

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.



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.



Duvo Series



Duvo

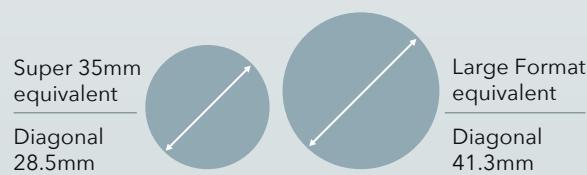
Commitment to "Duvo"

"Duvo" is a coined term combining Latin words Duo (=Dual) and Vivo (=Live). It represents the series' "two-faceted nature with cinema- and broadcast-lens characteristics" and "compatibility with two types of mainstream large sensors for cinema cameras".

Dual format Expander allows coverage of both Super35mm and Large Format camera sensors

Duvo series is equipped with an internal 1.5x expander* that widens the image circle while maintaining the peak optical performance. Even with a full frame-equivalent sensor, you can shoot with the same angle of view as a super 35mm sensor, expanding the range of cameras that can be used.

*When combined with a super 35mm sensor, it can be used as a 1.5x extender, extending the telephoto reach of the lens by 50%.



Diverse shooting style expanded with box and portable lenses

The three lenses are covering a wide range of focal lengths from 14mm to 1000mm. It enables a variety of shooting styles, such as telephoto shooting with the Duvo Box's 40x zoom and shooting with shoulder-mounted operation or Steadicam thanks to Duvo Portable's compact and lightweight design.

Focal length	Super 35mm*	14	24	225	100	300	1000
	2/3"	5.4	9.2	9.6	39	116	385
Duvo Box	Duvo25-1000mm						
Duvo Portable	Duvo24-300mm						
	Duvo14-100mm						

*Sensor size: 24.90 x 14.00

Achieving high optical performance, producing a cinematic visual expression

Aberrations are controlled thoroughly to achieve superior optical performance. In addition, while Duvo series is a high magnification zoom lens, it achieves F2.8 with Duvo Box and T2.9 with Duvo portable at the wide end, producing cinematic visual expression with a beautiful bokeh effect.



*This photo is for illustrative purposes.

Features that support comfortable shooting and editing

- 01 Features "Breathing Compensation Technology (BCT)" which automatically corrects focus breathing to produce natural footage maintaining the subject being filmed in a constant size during changes in focus.
- 02 Features "Remote Back Focus (RBF)" which enables the control of the Flange Focal Distance from the control panel of the camera or robotic system.
- 03 Compatible with the Compatible with the Cooke /i + ZEISS eXtended Data* system, enabling the recording of lens metadata (focus, zoom, and iris position) and lens distortion and shading corrections.

*Compatible only with Duvo Portable

Achieving comfortable shooting with zoom and focus demands

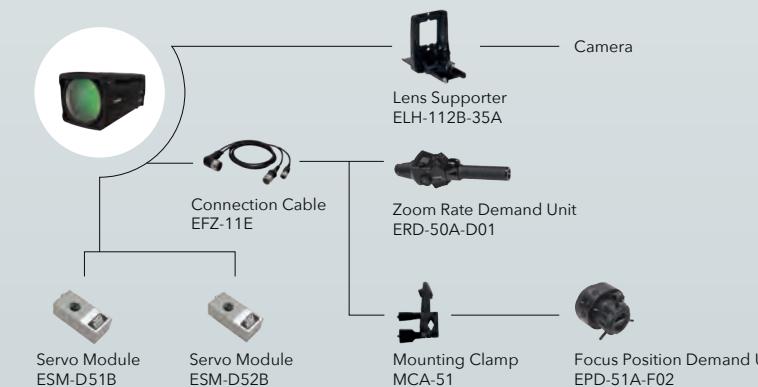
Lens controls can be used in the same style as broadcast lenses involving zoom and focus demands. It also supports multi-camera operations for efficient live production. The lens can be connected to a cinema style wireless lens controller as well and the focus ring on Duvo Portable has a gear pitch of 0.8M for easy integration with cinema industry standard accessories.



Model Name	Duvo14-100mm	Duvo24-300mm	Duvo25-1000mm
Focal Length	14-100mm (1x) 21-150mm (1.5x)	24-300mm (1x) 36-450mm (1.5x)	25-1000mm (1x) 37.5-1500mm (1.5x)
Zoom Ratio	7.1x	12.5x	40x
Expander	1.5x	1.5x	1.5x
T-No. / F-No.	T2.9(14-75mm) / T3.9(100mm)	T2.9(24-207mm) / T4.2(300mm)	F2.8(25-465mm) / F5.0(1000mm)
Minimum Object Distance (M.O.D.) from front lens	0.28m	0.88m	3.5m
Approx. Size	266.9mm	270.5mm	669mm
Approx. Mass	2.54kg	2.95kg	28.0kg
Front Diameter	114mm	114mm	—

System Diagram

Duvo Box



Duvo Portable



2/3" Studio / Field Box Lenses

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

Horizontal Field of View (16:9)	94	90	82	64	63	62	59	54	53	45	39	32	10	9.3	8.7	5.5	5.2	4.3	4.2	4.0	3.3	3.2	3.1	3.1	2.9	2.3	1.9	1.3	1.3	1.0	
Focal Length (mm)	4.5	4.8	5.5	7.6	7.8	8	8.5	9.5	9.7	11.5	13.5	16.5	54	59	63	100	106	128	130	137	167	170	175	176	187	234	288	410	413	437	570
UA13x4.5	[94, 59]																														
UA22x8	[62, 316]																														
UA24x7.8	[78, 212]																														
UA46x9.5	[54, 1300]																														
UA46x13.5	[35, 1300]																														
UA14x4.5	[62, 83]																														
UA18x5.5	[82, 55]																														
UA22x4.8	[62, 52]																														
UA18x7.6	[62, 40]																														
UA23x7.6	[62, 73]																														
LA16x8	[62, 48]																														
LA30x7.8	[62, 228]																														
HA25x11.5	[45, 289]																														
HA25x16.5	[32, 1300]																														
HA42x9.7	[53, 1300]																														
HA42x13.5	[32, 1300]																														
ZA12x4.5	[62, 100]																														
ZA17x7.6	[78, 130]																														
ZA22x7.6	[62, 130]																														
XA20sx8.5	[85, 130]																														

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

Horizontal Field of View (16:9)	60	58	3.9	3.2
Focal Length (mm)	4.5	4.7	77	94
XT17sx4.5				
XT20w-4.7				

4K Plus Premier Series

Flagship series with surpassing
4K optical performance



Model Name		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		2 x		
Maximum Relative Aperture (F-No.)	1:1.7 (9-350mm) 1:3.5 (720mm)		1:1.7(8-340mm) 1:5.0(1000mm)		
Minimum Object Distance (M.O.D.) from Front Lens	3.7m		3.0m		
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1x) 9mm 3501mm x 1968mm 720mm 46mm x 26mm	(1.2x) 10.8mm 3009mm x 1692mm 864mm 39mm x 22mm	(2x) 18mm 1816mm x 1021mm 1440mm 23mm x 13mm	(1x) 8mm 3198mm x 1799mm 1000mm 27mm x 15mm	(2x) 16mm 1677mm x 943mm 2000mm 14mm x 8mm
Angular Field of View 16 : 9 Aspect Ratio	(1x) 9mm 56.1° x 33.3° 720mm 0.8° x 0.4°	(1.2x) 10.8mm 47.9° x 28.0° 864mm 0.6° x 0.4°	(2x) 18mm 29.8° x 17.0° 1440mm 0.4° x 0.2°	(1x) 8mm 61.9° x 37.2° 1000mm 0.55° x 0.31°	(2x) 16mm 33.4° x 19.1° 2000mm 0.27° x 0.15°
Approx. Size	258 x 264 x 610mm(HxWxL)		258 x 264 x 635mm(HxWxL)		
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		(1x) 6.5mm 1063 × 597mm 180mm 38 × 21mm	(2x) 13mm 529 × 297mm 360mm 20 × 11mm	(1x) 8.7mm 2935mmx1651mm 610mm 44mmx25mm	(2x) 17.4mm 1537mmx865mm 1220mm 23mmx13mm
Angular Field of View 16 : 9 Aspect Ratio		(1x) 6.5mm 72.8° × 45.0° 180mm 3.1° × 1.7°	(2x) 13mm 40.5° × 23.4° 360mm 1.5° × 0.9°	(1x) 8.7mm 57.7°x34.4° 610mm 0.9°x0.5°	(2x) 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	



Model Name		UA107x8.4BESM	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	107 x	
Extender	2 x	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	(1x) 8.4mm 3053mm x 1717mm 900mm 30mm x 17mm	(2x) 16.8mm 1594mm x 896mm 1800mm 15mm x 9mm	(1x) 8.4mm 3052mm x 1717mm 900mm 30mm x 17mm	(2x) 16.8mm 1594mm x 896mm 1800mm 15mm x 9mm
Angular Field of View 16:9 Aspect Ratio	(1x) 8.4mm 59.4° x 35.6° 900mm 0.6° x 0.3°	(2x) 16.8mm 31.9° x 18.2° 1800mm 0.3° x 0.2°	(1x) 8.4mm 59.4°x35.6° 900mm 0.6°x0.3°	(2x) 16.8mm 31.9°x18.2° 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



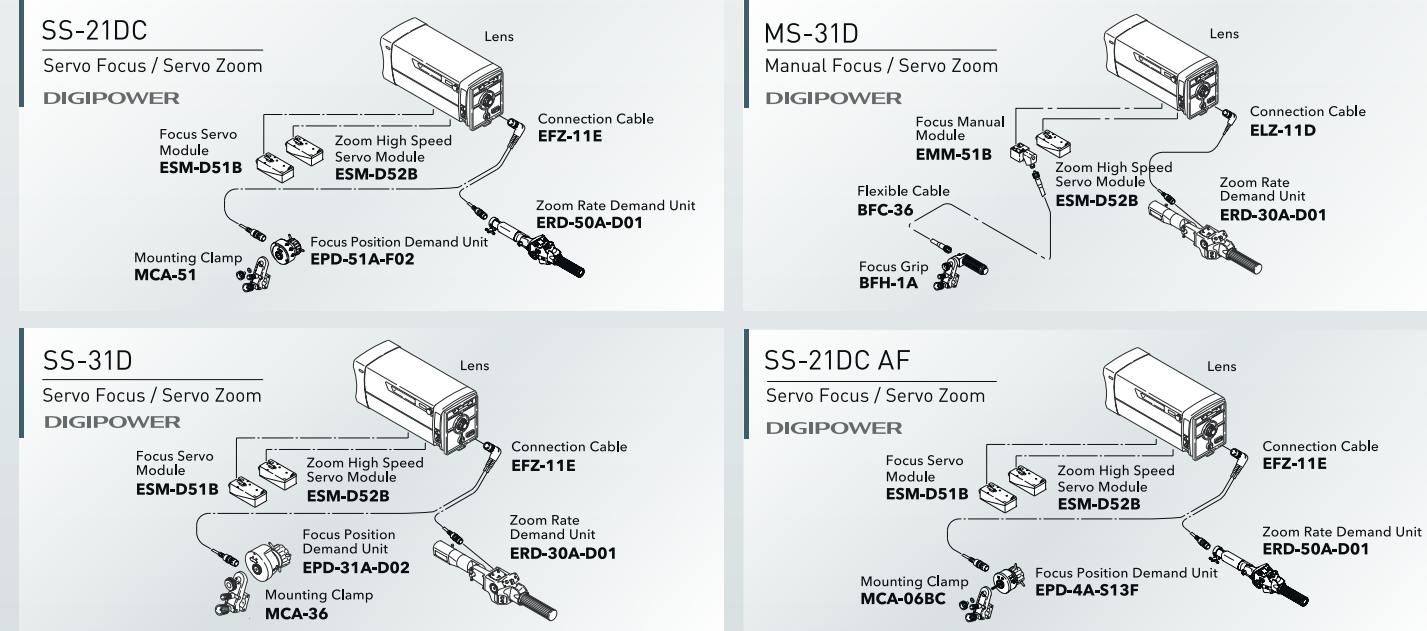
HD
HIGH-DEFINITION

2/3"

Model Name	XA55x9.5BESM				XA77x9.5BESM							
Focal Length	(1x)/(2x) 9.5-525mm / 19.0-1050mm				9.5-732mm / 19.0-1464mm							
Zoom Ratio	55 x				77 x							
Extender	2 x				2 x							
Maximum Relative Aperture (F-No.)	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.	(1x) 16 : 9 Aspect Ratio 9.5mm 525mm		(2x) 19mm 1050mm		(1x) 9.5mm 732mm		(2x) 1406 x 790mm 32 x 18mm					
	2782 x 1564mm		19mm 1050mm		9.5mm 732mm		19.0mm 1464mm					
	51 x 29mm		26 x 15mm		1241 x 697mm 16 x 9mm		1464mm 16 x 9mm					
Angular Field of View	(1x) 16 : 9 Aspect Ratio 9.5mm 525mm		(2x) 19mm 1050mm		(1x) 9.5mm 732mm		(2x) 18.6mm 1464mm					
	53.6° x 31.7° 1° x 0.6°		28.3° x 16.1° 0.5° x 0.3°		53.6° x 31.7° 0.8° x 0.4°		28.3° x 16.1° 0.4° x 0.2°					
Approx. Size	253 x 253 x 876mm(HxWxL)				253 x 253 x 656.4mm(HxWxL)							
Approx. Mass	24.8kg				22.4kg							

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

Studio/Field Lens System Configuration



Control Accessories List

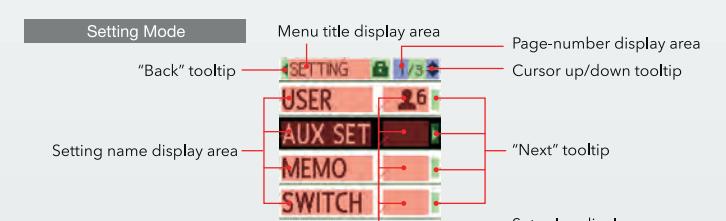
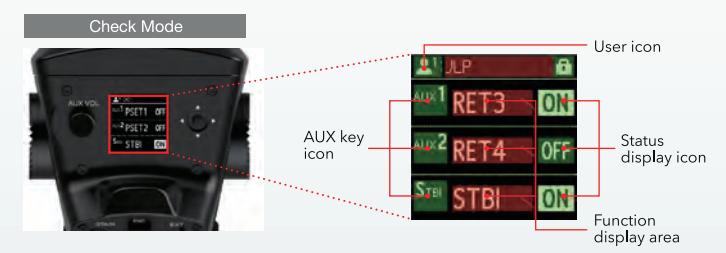
	Description	Model Name
Lens Focus/Zoom Drive Unit	Zoom High Speed Module	ESM-D52B
	Focus Servo Module	ESM-D51B
	Manual Focus/Zoom Module	EMM-51B
Focus	Servo Digital Focus Position Demand Unit	EPD-51A-F02
	Mounting Clamp for EPD-51A-F02	MCA-51
	Mounting Clamp for EPD-31A-D02	MCA-36
	AF Focus Position Demand Unit	EPD-4A-S13F
	Mounting Clamp	MCA-06BC
	Manual Focus Grip	BFH-1A
Zoom	Servo Digital Zoom Rate Demand Unit	ERD-50A-D01
	Zoom Rate Demand Unit	ERD-30A-D01
	Zoom Manual Handle (For HD) Only	BZH-2A
Other		
Description		
Model Name		
Connection Cable (Y Cable for Full-Servo Kit)		
Connection Cable (Cable for Semi-Servo Kit)		
Flexible Cable		
OS-TECH Controller		
Lens Supporter (For BTA Mount)		
Protection Glass (UA27)		
Protection Glass (UA70,80,107)		
Protection Glass (UA125)		
EFZ-11E		
ELZ-11D		
BFC-36		
EA-12A-05BD		
ELH-112B-35A		
EPF-196A		
EPF-226C		
EPF-241		



Box Lens Zoom Demand

Large LCD Monitor

With a large, highly visible, LCD monitor, it is possible to easily check the setting status and change various settings.



Main functions Accessible via the LCD Monitor

Store user-defined setting	RFB adjustment	Zoom pattern
AUX setting	Zoom limit setting	Preset memory operation
Zoom curve setting	LCD backlight setting	Breathing Compensation Technology (BCT) on/off

EPD-51A-F02

Box Lens Focus Demand

AUX Assignment

The three AUX switches can be assigned various functions.

Switch position	Functions	Setting of AUX Switches
0	OFF (No Action)	<input type="radio"/>
1	Return Switch 1	<input type="radio"/>
2	Return Switch 2	<input type="radio"/>
3	Return Switch 3	<input type="radio"/>
4	Intercomm control	
5	Optical Stabilizer ON/OFF Select	
6	Focus Preset	
7	Extender Select	
8	AutoFocus Action Switch	
9	Reserved (No Action)	

○: Default setting

Focus Preset

Previously-saved focus positions can be restored at the touch of a button.

More Controls and Features Accessible from the Demand Unit

Remote Back Focus (RBF) Control *1

Adjust the flange focal length using the AUX VOL knob on the demand unit.

Optical Stabilizer On/Off *1

Turn the optical stabilizer function of a lens on or off using the assigned AUX button.

Iris Control *1

Control iris using the AUX VOL knob on the demand unit.

Macro Function *1

Turn the macro function of a lens on or off using the assigned AUX button. Focus position and speed is adjustable to create natural bokeh scene.

Auto Focus *1

Turn the Auto Focus on or off using the assigned AUX button.

More RET Switches

Assign return controls to the RET1 and RET2 switches on the grip or to the AUX1 and AUX2 switch on the side.



*1 Available only with the lenses that support its function

Zoom Curve

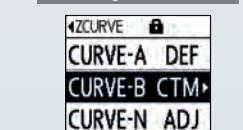
The rates at which the lenses zoom responds to the operator's control can be chosen from three curves—"A", "Normal", and "B"—each of which offers a further choice of a hundred different patterns.*2 Use the LCD monitor to customize zoom curves to suit any subject from concerts to live sporting events. Settings can be saved and recall via the LCD monitor.

*2. Available with updated FUJINON UA107x8.4 BESM and UA125x8 BESM lenses.

Choosing a Zoom Curve

Modifying the Curve

Choosing from 100 Patterns

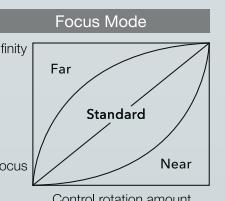


One-Shot Preset

Previously-saved zoom positions can be recalled using a button on the demand unit, a useful feature for studio recording, live sports, or other situations that call for lots of pre-determined camera angles.

Focus Mode

How focus distance changes in response the position of the focus demand can be chosen from three patterns. Selecting "Far (infinity)" or "Near" allows focus to be fine-tuned around the maximum or minimum focus distance, respectively.



ENG/EFP Portable Lenses

4K Plus Premier Series

Flagship series with surpassing 4K optical performance



Model Name	UA13x4.5BERD	UA22x8BERD
Focal Length (1x)/(2x)	4.5-59mm / 9-118mm	8.0-176mm / 16-352mm
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 (59mm)	1:1.8 (8-124mm) 1:2.55 (176mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.3m	0.85m
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1x) 4.5mm 744mm x 418mm 59mm 54mm x 30mm (2x) 9mm 367mm x 206mm 118mm 28mm x 16mm	(1x) 8mm 905mm x 509mm 176mm 43mm x 24mm (2x) 16mm 472mm x 265mm 352mm 22mm x 12mm
Angular Field of View 16:9 Aspect Ratio	(1x) 4.5mm 93.6° x 61.8° 59mm 9.3° x 5.2° (2x) 9mm 56.1° x 33.3° 118mm 4.7° x 2.6°	(1x) 8mm 61.9° x 37.2° 176mm 3.1° x 1.8° (2x) 16mm 33.4° x 19.1° 352mm 1.6° x 0.9°
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 253mm (ΦxLength)	Φ110 x 241.5mm (ΦxLength)
Approx. Mass	2.28kg (without lens hood)	2.55kg (without lens hood)



Model Name	UA24x7.8BERD	UA46x9.5BERD	UA46x13.5BERD
Focal Length (1x)/(2x)	7.8-187mm / 15.6-374mm	9.5mm-437mm / 19-874mm	13.5mm-621mm / 27-1242mm
Zoom Ratio	24 x	46 x	46 x
Extender	2 x	2 x	2 x
Maximum Relative Aperture (F-No.)	1:1.8(7.8-118mm) 1:2.85(187mm)	1:2.0(9.5mm-224mm) 1:3.9(437mm)	1:2.8(13.5mm-316mm) 1:5.5(621mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.8m	2.8m	2.8m
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1x) 7.8mm 883mm x 496mm 187mm 38mm x 21mm (2x) 15.6mm 459mm x 258mm 374mm 20mm x 11mm	(1x) 9.5mm 2653mm x 1491mm 437mm 59mm x 33mm (2x) 19mm 1331x748mm 874mm 30x17mm	(1x) 7.6mm 1886mm x 1060mm 621mm 42mm x 24mm (2x) 27mm 936mm x 526mm 1242mm 21mm x 12mm
Angular Field of View 16:9 Aspect Ratio	(1x) 7.8mm 63.2° x 38.1° 187mm 2.9° x 1.7° (2x) 15.6mm 34.2° x 19.6° 374mm 1.5° x 0.8°	(1x) 9.5mm 53.6° x 31.7° 437mm 1.3° x 0.7° (2x) 19mm 28.3° x 16.1° 874mm 0.6° x 0.4°	(1x) 13.5mm 39.1° x 22.6° 621mm 0.9° x 0.5° (2x) 27mm 20.1° x 11.4° 1242mm 0.4° x 0.2°
Filter Thread	M95 x 1 / M107 x 1 (Filter attaches to the lens hood)	M127 x 0.75	M127 x 0.75
Approx. Size	Φ100 x 220.5mm (ΦxLength)	Φ146.5 x 345.8 (ΦxLength)	Φ146.5 x 364.2 (ΦxLength)
Approx. Mass	1.98kg (without lens hood)	5.7kg (without lens hood)	5.8kg (without lens hood)

4K Premier Series

Excellent 4K optical performance for versatile shooting scene



Under Development

Model Name	UA14x4.5BERD	UA18x5.5BERD	UA22x4.8BERD
Focal Length (1x)/(2x)	4.5-63mm / 9-126mm	5.5-100mm / 11-200mm	4.8-106mm / 9.6-212mm
Zoom Ratio	14 x	18 x	22 x
Extender	2 x	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)	1:1.8 (4.8-61mm) 1:3.15 (106mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.3m	0.4m	0.4m
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1x) 4.5mm 744mm x 418mm 63mm 51mm x 29mm (2x) 9mm 365mm x 205mm 126mm 27mm x 15mm	(1x) 5.5mm 800mm x 450mm 100mm 44mm x 25mm (2x) 11mm 395mm x 222mm 200mm 22mm x 12mm	(1x) 4.8mm 913mm x 491mm 106mm 40mm x 23mm (2x) 9.6mm 447mm x 247mm 212mm 21mm x 12mm
Angular Field of View 16:9 Aspect Ratio	(1x) 4.5mm 93.6° x 61.8° 63mm 8.7° x 4.9° (2x) 9mm 56.1° x 33.3° 126mm 4.4° x 2.5°	(1x) 5.5mm 82.2° x 52.2° 100mm 5.5° x 3.1° (2x) 11mm 47.1° x 27.5° 200mm 2.7° x 1.5°	(1x) 4.8mm 89.9° x 58.6° 100mm 5.2° x 2.9° (2x) 9.6mm 53.1° x 31.4° 212mm 2.6° x 1.6°
Filter Thread	M127 x 0.75 (Filter attaches to the lens hood)	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)	Φ95 x 252mm (ΦxLength)
Approx. Mass	2.21kg (without lens hood)	2.04kg (without lens hood)	2.2kg (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
Zoom Ratio	18x	23x
Extender	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)
Minimum Object Distance (M.O.D.) from Front Lens	0.6m	0.8m
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1x) 7.6mm 696mm x 392mm 137mm 41mm x 23mm (2x) 15.2mm 362mm x 204mm 274mm 21mm x 12mm	(1x) 7.6mm 915mm x 514mm 175mm 41mm x 23mm (2x) 15.2mm 473mm x 266mm 350mm 21mm x 12mm
Angular Field of View 16:9 Aspect Ratio	(1x) 7.6mm 64.5° x 39° 137mm 4° x 2.3° (2x) 15.2mm 35° x 20.1° 274mm 2° x 1.1°	(1x) 7.6mm 64.5° x 39° 175mm 3.1° x 1.8° (2x) 15.2mm 35° x 20.1° 350mm 1.6° x 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)



Model Name	LA16x8BRM-XB1A	LA30x7.8BRM-XB2
Focal Length	8-128mm/-	7.8-234mm/-
Zoom Ratio	16x	30x
Extender	-	-
Maximum Relative Aperture (F-No.)	1:1.9(8mm) 1:2.8(128mm)	1:1.9(7.8mm) 1:3.9(234mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.8m	0.8m
Object Dimensions at M.O.D. 16:9 Aspect Ratio	(1x) 8mm 1023 x 575 mm 128mm 98 x 55mm (2x) -	(1x) 7.8mm 1036 x 582mm 234mm 65 x 37mm (2x) -
Angular Field of View 16:9 Aspect Ratio	(1x) 8mm 61.9° x 37.2° 128mm 4.3° x 2.4° (2x) -	(1x) 7.8mm 63.2° x 38.1° 234mm 2.3° x 1.3° (2x) -
Filter Thread	M82x0.75	M95x1
Approx. Size	Φ85x163.8mm (ΦxLength)	Φ100x190mm (ΦxLength)
Approx. Mass	1.6kg (without lens hood)	1.7kg (without lens hood)

ENG / EFP Portable Lenses

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.



HD
HIGH-DEFINITION
2/3"

Model Name	HA25x11.5BERD	HA25x16.5BERD
Focal Length (1x)/(2x)	11.5–288mm / 23–576mm	16.5–413mm / 33–826mm
Zoom Ratio	25 ×	25 ×
Extender	2 ×	2 ×
Maximum Relative Aperture (F-No.)	1 : 2 (11.5–206mm) 1 : 2.8 (288mm)	1 : 2.8 (16.5–289mm) 1 : 4 (413mm)
Minimum Object Distance (M.O.D.) from Front Lens	2.2m	2.2m
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1x) 11.5mm 1740 × 978mm 288mm 70 × 39mm (2x) 23mm 870 × 489mm 576mm 35 × 20mm 413mm 49 × 27mm 33mm 606 × 341mm 826mm 24 × 14mm	(1x) 16.5mm 1213 × 682mm 413mm 59 × 33mm 33mm 373 × 210mm 108mm 31 × 17mm 7.6mm 696 × 392mm 130mm 43 × 24mm 15.2mm 362 × 204mm 260mm 22 × 12mm
Angular Field of View 16 : 9 Aspect Ratio	(1x) 11.5mm 45.3° × 26.4° 288mm 1.9° × 1.1° (2x) 23mm 23.6° × 13.4° 576mm 1° × 0.5° 413mm 1.3° × 0.7° 33mm 16.5° × 9.3° 826mm 0.7° × 0.4°	(1x) 4.5mm 93.6° × 61.8° 54mm 10.1° × 5.7° 108mm 5.1° × 2.9° 7.6mm 64.5° × 39° 130mm 4.2° × 2.4° 15.2mm 35° × 20.1° 260mm 2.1° × 1.2°
Filter Thread	M107 × 1 / M127 × 0.75 (Filter attaches to the lens hood.)	M127 × 0.75 (Filter attaches to the lens hood.)
Approx. Size	Ø110 × 265mm(ØxLength)	Ø110 × 278mm(ØxLength)
Approx. Mass	2.81kg (without lens hood)	2.9kg (without lens hood)



HD
HIGH-DEFINITION
2/3"

Model Name	HA42x9.7BERD	HA42x13.5BERD
Focal Length (1x)/(2x)	9.7–410mm / 19.4–820mm	13.5–570mm / 27–1140mm
Zoom Ratio	42 ×	42 ×
Extender	2 ×	2 ×
Maximum Relative Aperture (F-No.)	1 : 2 (9.7–225mm) 1 : 3.7 (410mm)	1 : 2.8 (13.5–307mm) 1 : 5.2 (570mm)
Minimum Object Distance (M.O.D.) from Front Lens	2.8m	2.8m
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1x) 9.7mm 2619 × 1472mm 410mm 64 × 36mm (2x) 19.4mm 1339 × 753mm 820mm 33 × 19mm 570mm 45 × 25mm 1140mm 22 × 13mm	(1x) 13.5mm 1888 × 1061mm 570mm 45 × 25mm (2x) 27mm 944 × 530mm 1140mm 22 × 13mm
Angular Field of View 16 : 9 Aspect Ratio	(1x) 9.7mm 52.6° × 31.1° 410mm 1.3° × 0.8° (2x) 19.4mm 27.8° × 15.8° 820mm 0.7° × 0.4° (1x) 13.5mm 39.1° × 22.6° 570mm 1° × 0.5° (2x) 27mm 20.1° × 11.4° 1140mm 0.5° × 0.3°	(1x) 8.5mm 910 × 511mm 170mm 47 × 26mm (2x) 8.5mm 910 × 511mm 170mm 47 × 26mm 17mm 469 × 264mm 340mm 24 × 13mm
Filter Thread	M127 × 0.75	M127 × 0.75
Approx. Size	Ø130 × 338.5mm(ØxLength)	Ø130 × 357.5mm(ØxLength)
Approx. Mass	5.3kg (without lens hood)	5.4kg (without lens hood)

SELECT Series

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.



HD
HIGH-DEFINITION
2/3"

Model Name	ZA12x4.5BERD	ZA17x7.6BERD	ZA22x7.6BERD
Focal Length (1x)/(2x)	4.5–54mm / 9–108mm	7.6–130mm / 15.2–260mm	7.6–167mm / 15.2–334mm
Zoom Ratio	12 ×	17 ×	22 ×
Extender	2 ×	2 ×	2 ×
Maximum Relative Aperture (F-No.)	1 : 1.8 (4.5–41mm) 1 : 2.4 (54mm)	1 : 1.8 (7.6–102mm) 1 : 2.3 (130mm)	1 : 1.8 (7.6–120mm) 1 : 2.5 (167mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.3m	0.6m	0.8m
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1x) 4.5mm 757 × 425mm 54mm 59 × 33mm 9mm 373 × 210mm 108mm 31 × 17mm (2x) 7.6mm 696 × 392mm 130mm 43 × 24mm 15.2mm 362 × 204mm 260mm 22 × 12mm	(1x) 7.6mm 915 × 514mm 167mm 43 × 24mm (2x) 7.6mm 334mm 22 × 12mm	(1x) 7.6mm 915 × 514mm 167mm 43 × 24mm (2x) 15.2mm 473 × 266mm 334mm 22 × 12mm
Angular Field of View 16 : 9 Aspect Ratio	(1x) 4.5mm 93.6° × 61.8° 54mm 10.1° × 5.7° 108mm 5.1° × 2.9° (2x) 7.6mm 64.5° × 39° 130mm 4.2° × 2.4° 15.2mm 35° × 20.1° 260mm 2.1° × 1.2°	(1x) 7.6mm 64.5° × 39° 130mm 4.2° × 2.4° 15.2mm 35° × 20.1° 260mm 2.1° × 1.2°	(1x) 7.6mm 64.5° × 39° 167mm 3.3° × 1.8° 260mm 1.6° × 0.9° (2x) 15.2mm 35° × 20.1° 334mm 3.3° × 1.8°
Filter Thread	M127 × 0.75 (Filter attaches to the lens hood.)	M82 × 0.75	M95 × 1 / M107 × 1 (Filter attaches to the lens hood.)
Approx. Size	Ø95 × 237.5mm(ØxLength)	Ø85 × 203mm(ØxLength)	Ø100 × 220.4mm(ØxLength)
Approx. Mass	2.07kg (without lens hood)	1.74kg (without lens hood)	1.92kg (without lens hood)

*BRM/BRD type are also available. For more information, please contact nearest our FUJIFILM office.

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.



HD
HIGH-DEFINITION
2/3"

Model Name	XA20sx8.5BRM	XA20sx8.5BERM
Focal Length (1x)/(2x)	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	(1x) 8.5mm 910 × 511mm 170mm 47 × 26mm (2x) 8.5mm 910 × 511mm 170mm 47 × 26mm 17mm 469 × 264mm 340mm 24 × 13mm	(1x) 8.5mm 910 × 511mm 170mm 47 × 26mm (2x) 8.5mm 910 × 511mm 170mm 47 × 26mm 17mm 469 × 264mm 340mm 24 × 13mm
Angular Field of View 16 : 9 Aspect Ratio	(1x) 8.5mm 58.9° × 35.2° 170mm 3.2° × 1.8° (2x) 8.5mm 58.9° × 35.2° 170mm 3.2° × 1.8°	(1x) 8.5mm 58.9° × 35.2° 170mm 3.2° × 1.8° (2x) 17mm 31.5° × 18° 340mm 1.6° × 0.9°
Filter Thread	M82 × 0.75	M82 × 0.75
Approx. Size	Ø85 × 180.8mm(ØxLength)	Ø85 × 200.8mm(ØxLength)
Approx. Mass	1.5kg (without lens hood)	1.6kg (without lens hood)

1/3" Series

eXceed Series

**HD**
HIGH-DEFINITION

Model Name	XT17s×4.5BRM	XT20s×4.7BRM
Focal Length	(1x)/(2x) 4.5–77mm / –	4.7–94mm / –
Zoom Ratio	17 ×	20 ×
Extender	–	–
Maximum Relative Aperture (F-No.)	1 : 1.6 (4.5–77mm)	1 : 1.4 (4.7–88mm) 1 : 1.5 (94mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.95m	0.9m
Object Dimensions at M.O.D.	(1x) 4.5mm 99.9 × 56.2mm 16:9 Aspect Ratio 77mm 60 × 34mm	(2x) 4.7mm 90.1 × 50.6mm 94mm 47 × 26mm
Angular Field of View	(1x) 4.5mm 60.3° × 36.2° 16:9 Aspect Ratio 77mm 3.9° × 2.2°	(2x) 4.7mm 58.2° × 34.7° 94mm 3.2° × 1.8°
Filter Thread	M82 × 0.75	M82 × 0.75
Approx. Size	Φ85 × 175.6mm(ΦxLength)	Φ85 × 189.8mm(ΦxLength)
Approx. Mass	1.28kg (without lens hood)	1.48kg (without lens hood)

Remote Control Lenses

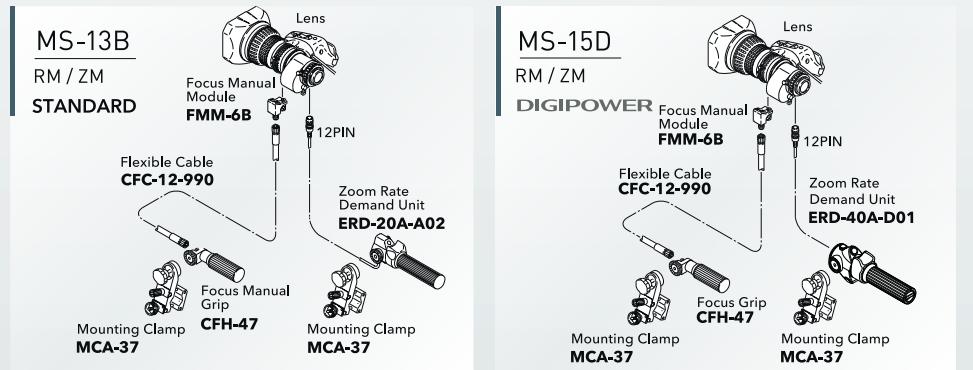
Model Name	XA20s×8.5BMD	XA20s×8.5BEMD
Focal Length	(1x)/(2x) 8.5–170mm / –	8.5–170mm / 17–340mm
Zoom Ratio	20 ×	20 ×
Extender	–	2 ×
Maximum Relative Aperture (F-No.)	1:1.8(8.5–113mm) 1:2.7(170mm)	1:1.8(8.5–113mm) 1:2.7(170mm)
Minimum Object Distance (M.O.D.)	0.9m	0.9m
Object Dimensions at M.O.D.	(1x) 8.5mm 910 × 511mm 16:9 Aspect Ratio 170mm 47 × 26mm	(2x) 8.5mm 910 × 511mm 170mm 47 × 26mm
Angular Field of View	(1x) 8.5mm 58.9° × 35.2° 16:9 Aspect Ratio 170mm 3.2° × 1.8°	(2x) 8.5mm 58.9° × 35.2° 170mm 3.2° × 1.8°
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)

Description		Model Name
Focus	Manual	Focus Grip
		MCA-37
Focus	Servo	Flexible Cable
		CFC-12-990
Focus	Servo	Focus Manual Module
		FMM-6B
Focus	Servo	FMM-3D (for 46x series, 42x series)
		EPD-41A-D01 / D02
Zoom	Servo	Digital Focus Position Demand Unit
		MCA-37
Zoom	Servo	Focus Position Demand Unit
		ERD-20A-A02
Zoom	Servo	Digital Shot Box
		ESB-6C-E12B
Zoom	Servo	Mounting Clamp
		MCA-06BC
Zoom	Servo	Digital Zoom Rate Demand Unit
		ERD-40A-D01
Zoom	Servo	Mounting Clamp
		MCA-37
Zoom	Servo	Zoom Rate Demand Unit
		ERD-20A-A02
Other	Other	VTR Control Unit
		VRS-20
Other	Other	Return Control Unit
		EXT-30
Other	Other	Lens Supporter
		ALH-127A-01A (for 46x series, for 42x series)
Other	Other	External OS-TECH Adapter
		TS-P58A (HA14, HA18, HA23, HA25, HA42)
Other	Other	OS-TECH Control Unit
		EA-12A-03BA
Other	Other	Extention Cable For Focus Position Demand Unit/Zoom Rate Demand Unit
		ECE-1000(1m) / ECE-10000(10m)
Other	Other	2x Extender Change Unit (Motor Drive)
		ECU-2C
Other	Other	ECU Adapter (for UA13x / UA24x with RBF / HP12x)
		ECU-2AD

Digital Zoom Demand

| ERD-40A-D01



DIP No.	Function
1-1	OIS(Alternate)
1-2	Preset Zoom
1-3	Preset Z+F
1-4	EXT
1-5	INCOM(ENG)
1-6	INCOM(PD)
1-7	Z curve select
1-8	Z curve select
2-1	RET2 ⇔ AUX2
2-2	ON/OFF
2-3	ON/OFF
2-4	VTR(REC)
2-5	EXT
2-6	INCOM(ENG)
2-7	INCOM(PD)
2-8	OIS(Alternate)

Digital Focus Demand

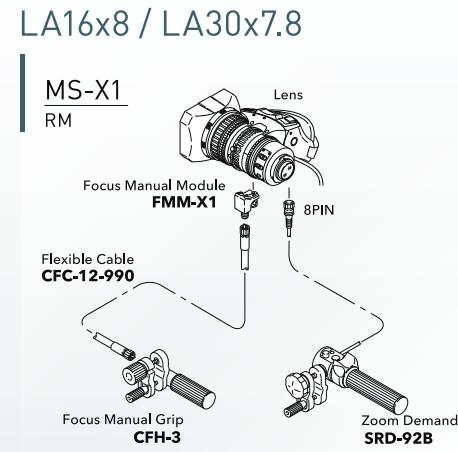
| EPD-41A-D01/ D02



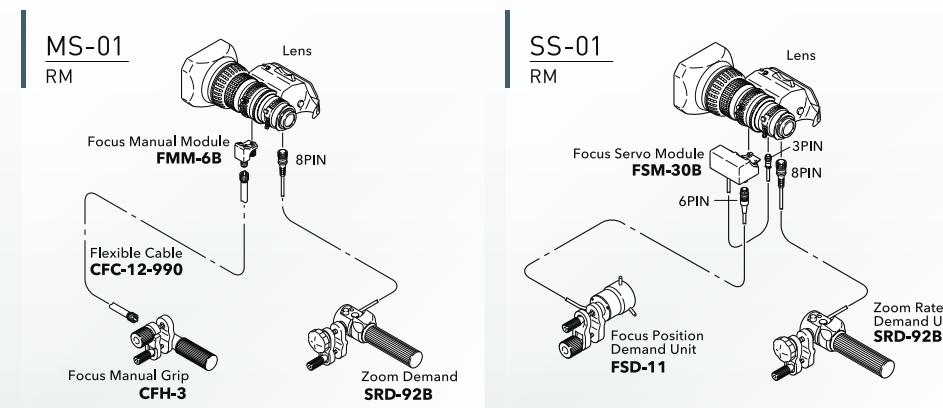
DIP No.	Function
1	RET1
2	AUX1 ⇔ AUX2
3	RET2
4	OIS
5	PRESET

ENG Portable Lens System Configuration

LA16x8 / LA30x7.8



eXceed Series



Control Accessories Compatibility

		Description	Model Name	LA16x8 / LA30x7.8	eXceed Series
Focus	Manual	Focus Grip	CFH-3	●	●
		Flexible Cable	CFC-12-990	●	●
	Servo	Focus Manual Module	FMM-X1	●	
		Focus Manual Module	FMM-6B		●
Zoom	Servo	Focus Servo Module	FSM-30B		●
		Focus Position Demand Unit	FSD-11		●
Other	Servo	Zoom Rate Demand Unit	SRD-92B	●	●
		For 12PIN Lens Cable	ECE-R22	●	●



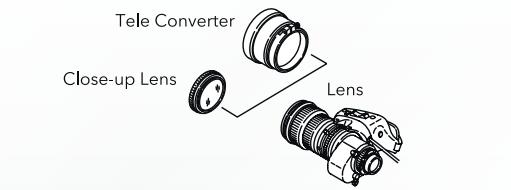
Mount Adapters

Model Name	Camera	Lens	Note
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



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.

TCV



Close-up Lens

► Close-up lens provides a shorter minimum focusing distance between lens and object. ► Ideal for copy stand or other close up work.

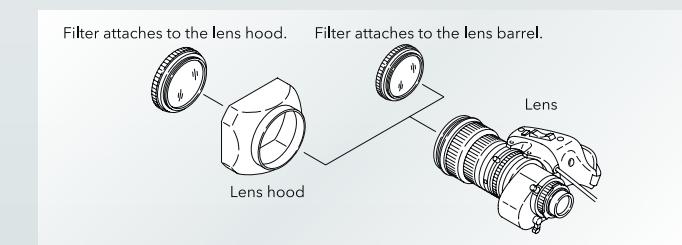
CL



LENS		UA18x7.6 HA18x7.6 ZA17x7.6	UA24x7.8 HA23x7.6 ZA22x7.6
Front Lens Diameter		Ø 85	Ø 100
Model Name	Magnification	Approx. Mass(kg)	
TCV-U100	1.5x	1.00	●
Model Name	Object Distance	Approx. Mass(kg)	
UCL-8082SC	0.8m	0.28	M82x0.75

Filter

Attach to filter screw portion of the zoom lens.



Protection Filter

Professional protect filter offers superior protection against dust, moisture and scratches and can permanently remain on the lens.



LENS	UA18x7.6 LA16x8 HA18x7.6 ZA17x7.6 XA20sx8.5 XS20sx6.3 XT17sx4.5 XT20sx4.7	UA24x7.8 UA23x7.6 LA30x7.8 HA23x7.6 ZA22x7.6	UA13x4.5 UA14x4.5 UA18x5.5 UA22x4.8 HA14x4.5 HA22x4.8 HA18x5.5 ZA12x4.5 HP12x7.6	UA46x9.5 UA46x13.5 HA42x9.7 HA42x13.5
Lens Barrel Filter Thread Size	M82x0.75	M95x1	M107x1	—
Hood Filter Thread Size	—	M107x1	M127x0.75	M127x0.75
Model Name				
EPF-82	●			
EPF-95		●		
EPF-107		●*	●	
EPF-127		●	●	●

*Not compatible with LA30x7.8

Premista Series



Living Large Capture Your Cinematic Vision

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
19-250mm with 3 Lenses

The lineup includes a standard zoom lens (28-100mm), telephoto zoom lens (80-250mm) and wide-angle zoom lens (19-45mm). Combining these three lenses, they cover the most frequently used focal lengths of 19-250mm. 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 of 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 of View (16:9)	86.9	65.5	43.6	25.4	20.4	8.2
Focal Length	Large format*1	Large format*1	Large format*1	Large format*1	Large format*1	Large format*1
	S35mm Format*2	S35mm Format*2	S35mm Format*2	S35mm Format*2	S35mm Format*2	S35mm Format*2
	2/3" Format Equivalent	5.1	7.5	12.0	21.3	26.6
Premista19-45mm T2.9						
Premista28-100mm T2.9						
Premista80-250mm T2.9-3.5						

*1 Sensor size:36x24 *2 Sensor size:27.45x15.44



Excellent Usability for Professional Use

Combining Lightweight and High Durability

The Premista design combines both a lightweight of 3.3kg (19-45mm) / 3.8kg (28-100mm, 80-250mm) and compact size as well as the renowned durability that FUJINON lenses are known for even in the harshest of professional conditions. 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 β 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 β 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 19-45mmT2.9	Premista 28-100mmT2.9	Premista 80-250mmT2.9-3.5
Focal Length	19-45mm	28-100mm	80-250mm
Aperture	T2.9	T2.9	T2.9(80-200mm) / T3.5(250mm)
Lens Mount	PL mount	PL mount	PL mount
Compatible Image Size (diagonal)	46.3mm	46.3mm	46.3mm
Close Focus	0.6m / 2ft	0.8m / 2ft 7in	1.5m / 4ft 11in
Angular Field of View (HxV)	19mm : 94.3° x 59.2°	28mm : 72.4° x 42.2°	80mm : 28.7° x 15.4°
40.96mm x 21.60mm*4	45mm : 48.9° x 27.0°	100mm : 23.1° x 12.3°	250mm : 9.4° x 4.9°
Angular Field of View (HxV)	19mm : 86.9° x 64.6°	28mm : 65.5° x 46.4°	80mm : 25.4° x 17.1°
36mm x 24mm*5	45mm : 43.6° x 29.9°	100mm : 20.4° x 13.7°	250mm : 8.2° x 5.5°
Angular Field of View (HxV)	19mm : 71.7° x 44.2°	28mm : 52.2° x 30.8°	80mm : 19.5° x 11.0°
27.45mmx 15.44mm*6	45mm : 33.9° x 19.5°	100mm : 15.6° x 8.8°	250mm : 6.3° x 3.5°
Focus Rotation	280°	280°	280°
Zoom Rotation	120°	120°	120°
Iris Rotation	48°	48°	48°
Iris Blades	13	13	13
Front Diameter	114mm	114mm	114mm
Length (approx.)	228mm / 9in	255mm / 10in	255mm / 10in
Weight (approx.)	3.3kg / 7.3lbs.	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

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

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.

Mechanical design for good manual operability

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.

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.

Equipped 16 bit encoder

ZK XK

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.



Cinema style

Broadcast style

Horizontal Field of View (16:9)	89	72	69.2	64	58	43	27.9	25.4	18	17	12	10.5	5
Focal Length	14	19	18	20	25	35	50	55	85	90	120	135	300
2/3" Format Equivalent	4.9	6.6	6.9	7.7	8.7	12	19.3	21.2	30	31	46.3	52.1	104
ZK2.5x14(14-35mm) T2.9													
ZK4.7x19(19-90mm) T2.9													
ZK3.5x85(85-300mm) T2.9-4.0													
ZK12x25(25-300mm) T3.5-3.85													
XK6x20(20-120mm) T3.5													
MK18-55mm T2.9													
MK50-135mm T2.9													

*Sensor size ZK: 27.45x15.44 XK/MK: 24.84x13.97

ZK Cabrio Series



Model Name	ZK14-35mm T2.9	ZK85-300mm T2.9-4.0	ZK19-90mm T2.9
Application	35mm PL Mount Camera	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	14-35mm	85-300mm	19-90mm
Zoom Ratio	2.5 x	3.5 x	4.7 x
T-No.	T2.9	T2.9(85-218mm) T4.0(300mm)	T2.9
Compatible Image Size(diagonal)	Maximum 31.5mm	Maximum 31.5mm	Maximum 31.5mm
Iris Blades	9	9	9
M.O.D. from Image Planes	0.6m / 2ft	1.2m / 3ft 11in	0.85m / 2ft 9in
Object Dimensions at M.O.D.	14mm 701 x 394mm 35mm 275 x 155mm	85mm 274 x 154mm 300mm 79 x 44mm	19mm 917 x 516mm 90mm 193 x 109mm
1.7:1 Aspect Ratio**	14mm 88.9° x 57.7° 35mm 42.8° x 24.9°	85mm 18.3° x 10.4° 300mm 5.2° x 2.9°	19mm 71.7° x 44.2° 90mm 17.3° x 9.8°
Angular Field of View			
1.7:1 Aspect Ratio**			
Focus Rotation	200°	200°	200°
Zoom Rotation	120°	120°	120°
Approx. Size	Φ114 x 231mm(ΦxLength)	Φ114 x 249mm(ΦxLength)	Φ114 x 226mm(ΦxLength)
Approx. Mass	2.9kg (with Drive Unit) / 2.4kg (without Drive Unit)	3.1kg (with Drive Unit) / 2.6kg (without Drive Unit)	2.8kg (with Drive Unit) / 2.3kg (without Drive Unit)

XK Cabrio Series



*Now Available without drive unit

Model Name	ZK25-300mm T3.5-3.85	XK20-120mm T3.5
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	25-300mm	20-120mm
Zoom Ratio	12 x	6 x
T-No.	T3.5(25-273mm) T3.85(300mm)	T3.5
Compatible Image Size(diagonal)	Maximum 31.5mm	Maximum 28.5mm
Iris Blades	9	9
M.O.D. from Image Planes	1.2m / 3ft 11in	1.1m / 3ft 7in
Object Dimensions at M.O.D.	25mm 937 x 527mm 300mm 77 x 43mm	20mm 1109 x 624mm 120mm 182 x 102mm
1.7:1 Aspect Ratio**	25mm 57.5° x 34.3° 300mm 5.2° x 2.9°	20mm 63.7° x 38.5° 120mm 11.8° x 6.7°
Angular Field of View		
1.7:1 Aspect Ratio**		
Focus Rotation	280°	200°
Zoom Rotation	120°	90°
Approx. Size	Φ136 x 401mm(ΦxLength)	Φ114 x 239mm(ΦxLength)
Approx. Mass	8.4Kg (without optional Drive Unit)	2.9Kg (with Drive Unit) / 2.4kg (without Drive Unit)

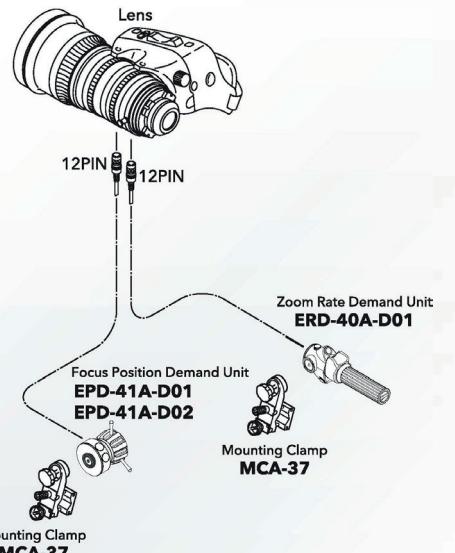
MK Series



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.	18mm 924mm x 520mm 55mm 291mm x 164mm	50mm 534mm x 300mm 135mm 196mm x 110mm
1.7:1 Aspect Ratio**	18mm 69.2° x 42.4° 55mm 25.5° x 14.5°	50mm 27.9° x 15.9° 135mm 10.5° x 5.9°
Angular Field of View		
1.7:1 Aspect Ratio**		
Focus Rotation	200°	200°
Zoom Rotation	90°	90°
Approx. Size	Φ85mm x 206mm(ΦxLength)	Φ85mm x 206mm(ΦxLength)
Approx. Mass	980g	980g

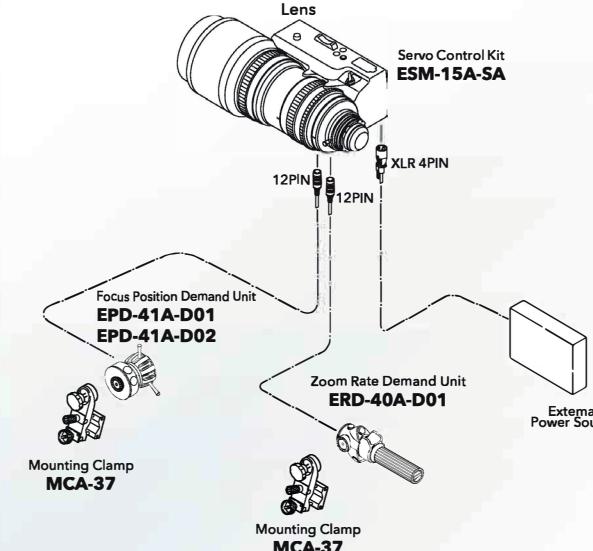
Servo Control Kit

ZK14-35mm T2.9 / ZK19-90mm T2.9 /
ZK85-300mm T2.9-4.0 / XK20-120mm T3.5



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

ZK25-300mm T3.5-3.85



Control Accessories List

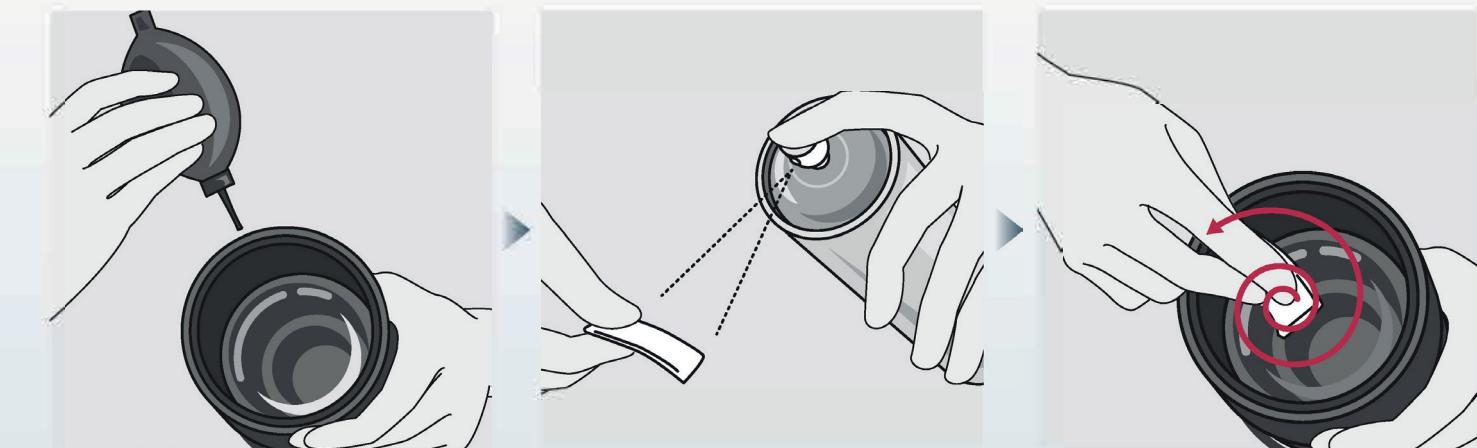
	Description	Model Name
Focus Demand	Digital Focus Position Demand Mounting Clamp	EPD-41A-D01 / D02 MCA-37
Zoom Demand	Digital Zoom Demand (Featured Iris Remote Control) Mounting Clamp	ERD-40A-D01 MCA-37
Other	Lens Hood for ZK4.7x19, ZK3.5x85 Lens Hood for ZK2.5x14 Digital Servo Module (Designed for ZK12x25)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

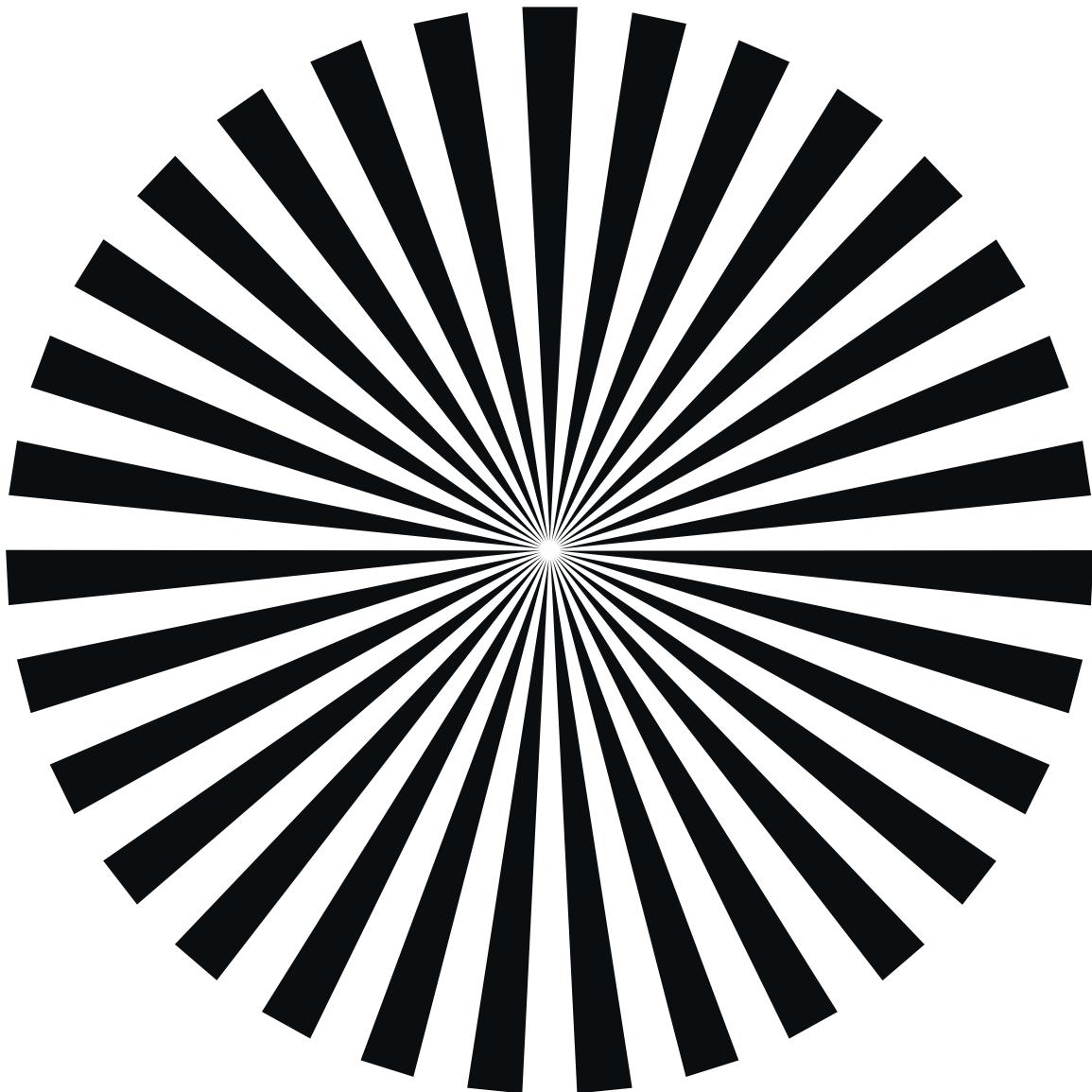
The lens consists of an optical unit and a power unit. Both units are held in place with screws. Please DO NOT unscrew the units. If the units are separated, the mechanism of the power unit will require realignment.

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.



FUJINON



FUJIFILM
FUJIFILM Corporation
Imaging Solutions Division

Due to a continuous process of product improvement, design and specification are subject to change without notice.



For Your Safety

Be certain to read the instruction for use before using any equipment.