FUJIFILM
Value from Innovation





Focused on the Future

FUJINON

TELEVISION LENSES & CINE LENSES
2024



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.

4K ULTRA HD

HD HIGH-DEFINITION



FUJINON Lens Model Explanation

Studio/Field Box Lenses

1	2		3	4	5	6		7	8	9
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	2	3		4	5	6	7		8
UX	AS	46 20s	x x	9.5 6.3	BB	E	RD RM	-	UK

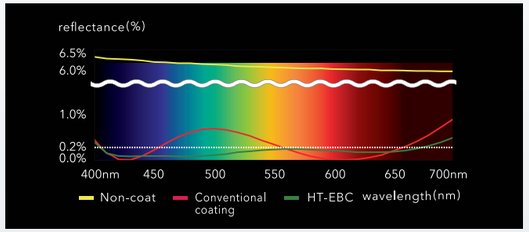
1	ENG / EFP Portable Lens Category	U	UHD Premier Series
		H	High Definition Premier Series
		Z	High Definition Select Series
		X	High Definition eXceed Series
2	Camera Image Sensor Format	A	2/3" Sensor Format
		S	1/2" Sensor Format
		T	1/3" Sensor Format
3	Zoom Ratio		
4	Wide End of Focal Length		
5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

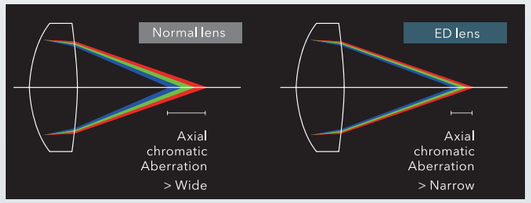
HT-EBC Coating (High Transmittance Electron Beam Coating)

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.

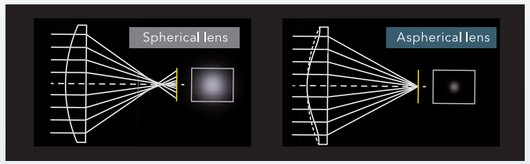


Aspherical Lens

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


Aspherical Lens image


Metal mold for producing the aspherical lens



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



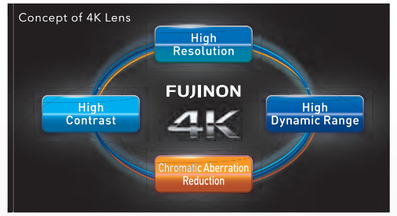
iF DESIGN AWARD 2022

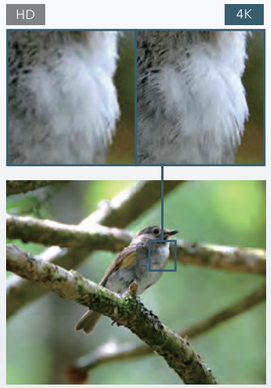
reddot award 2022 winner

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

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

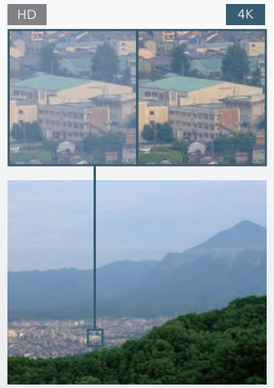
4K demands a higher dimension of performance, and the expanded FUJINON 4K broadcast lens lineup meets the challenge.
Extending the limits of "High Resolution", "High Contrast", "Chromatic Aberration Reduction" and "High Dynamic Range", FUJINON's cutting-edge optical technology presents the next standard in optical performance – image quality that exceeds the high expectations of imaging professionals.





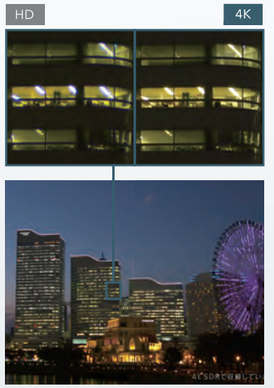
High Resolution

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



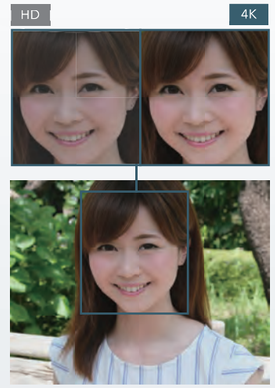
High Contrast

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.



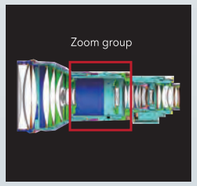
High Dynamic Range

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

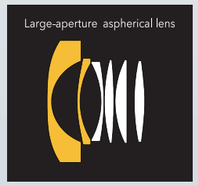
1. Multi-group zoom system

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



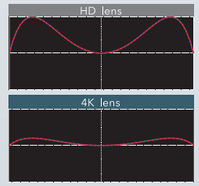
2. Large-aperture aspherical lens

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



3. Improved surface accuracy

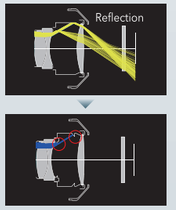
Development of new polishing techniques and improvements in measurement precision achieve surface accuracy more than three times higher than that of HD, contributing to higher image quality.



Key technology

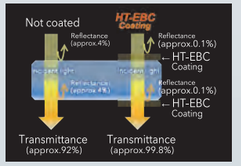
4. Development of new barrel design

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



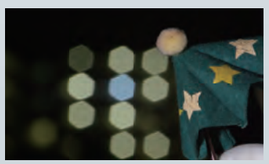
5. New coating system

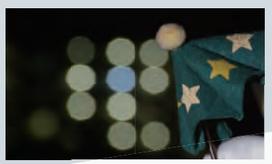
Adopting HT-EBC coating technology that achieves a low 0.2% reflection or less over a wide spectrum of wavelengths keeps surface reflection of the lens to the absolute minimum and makes it possible to render truer "blacks".
In addition, camera adjustment is easier because the transmittance balance is 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.

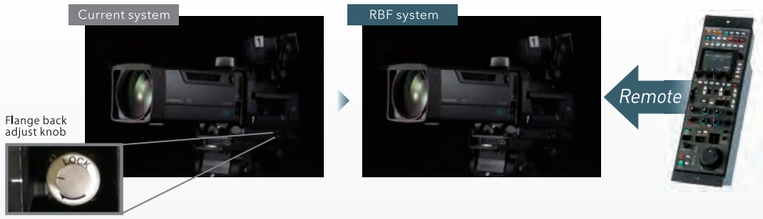

Six iris blades


Nine iris blades

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.



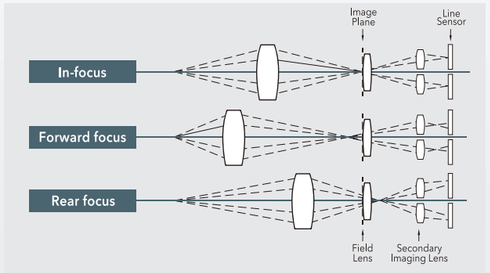
Advanced Focus System

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.

AF ADVANCED FOCUS



UA107x8.4 BESM AF

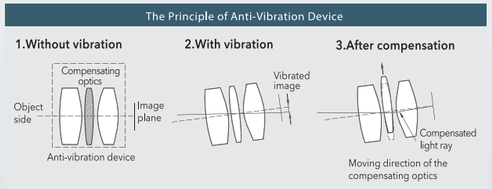


Optical Stabilized Technology

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.

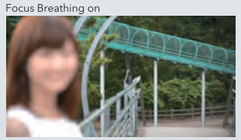


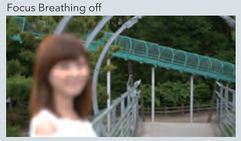


Breathing Compensation Technology(BCT)

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.


1. Frame your shot. Press Q•Z button.


2. Lens automatically zooms in. Check focus and release Q•Z button.

Macro Function

This system allows macro shooting as close as 0.3m (0.05m on UA27x6.5) from the object.
A dedicated Macro Controller helps to create natural bokeh scene effectively.




※Macro Controller (option) enhances shooting.



Macro controller EA-3A-10AB

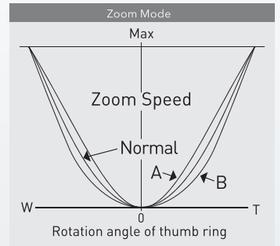
Zoom/Focus Mode Selection Function

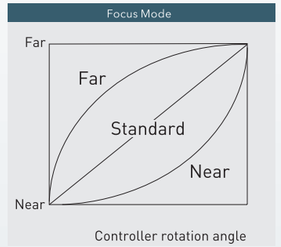
Zoom Mode Selection

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

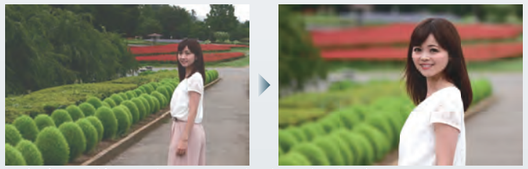
The focus demand makes it possible to select one of three curves for subject distance depending on the rotation angle of the focus knob. By setting to "Far" (infinity) or "Near" (close-in), it is possible to fine-tune the focus on the infinity side or the near side.





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.


Angle of view and focus can be preset, stored, and reproduced easily

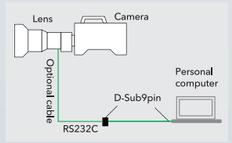
Virtual Connector

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.



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)

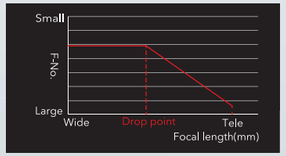
QuickFrame
For Your Best Shot

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.



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.









Duvo Series



Commitment to “Duvo”

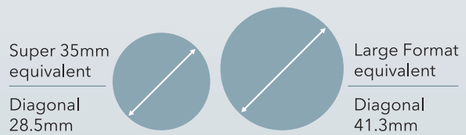
Duvo

"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: 24.90×14.00

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.



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 “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.

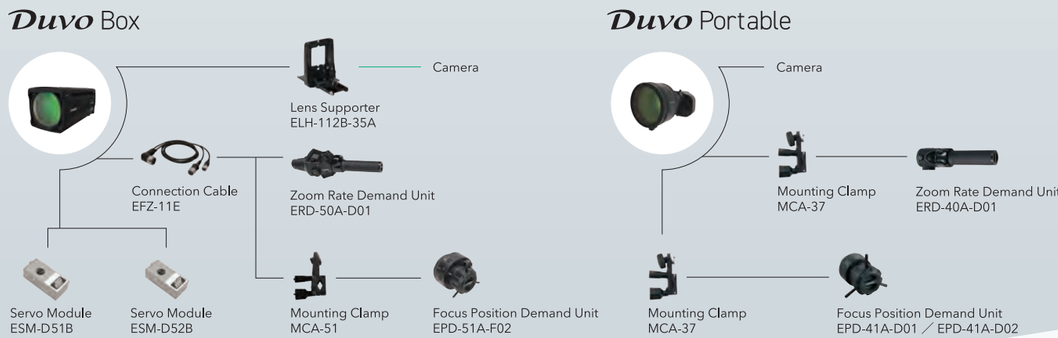






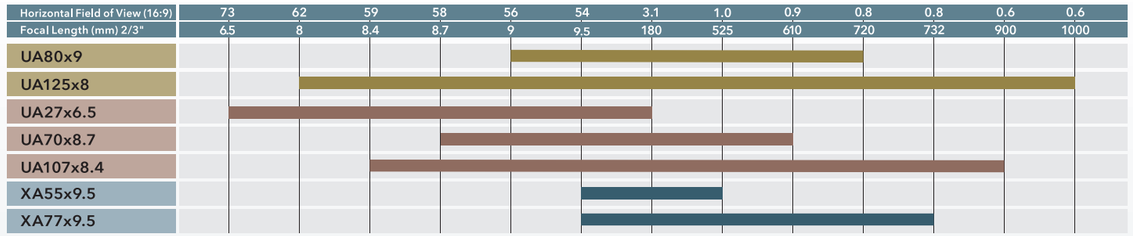
Model Name	Duvo14-100mm	Duvo24-300mm	Duvo25-1000mm
Focal Length	14-100mm (1x) 21-150mm (1.5x)	24-300mm (1x) 36-450mm (1.5x)	25-1000mm (1x) 37.5-1500mm (1.5x)
Zoom Ratio	7.1x	12.5x	40x
Expander	1.5x	1.5x	1.5x
T-No. / F-No.	T2.9-T3.9	T2.9(24-207mm) / T4.2(300mm)	F2.8(25-465mm) / F5.0(1000mm)
Minimum Object 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

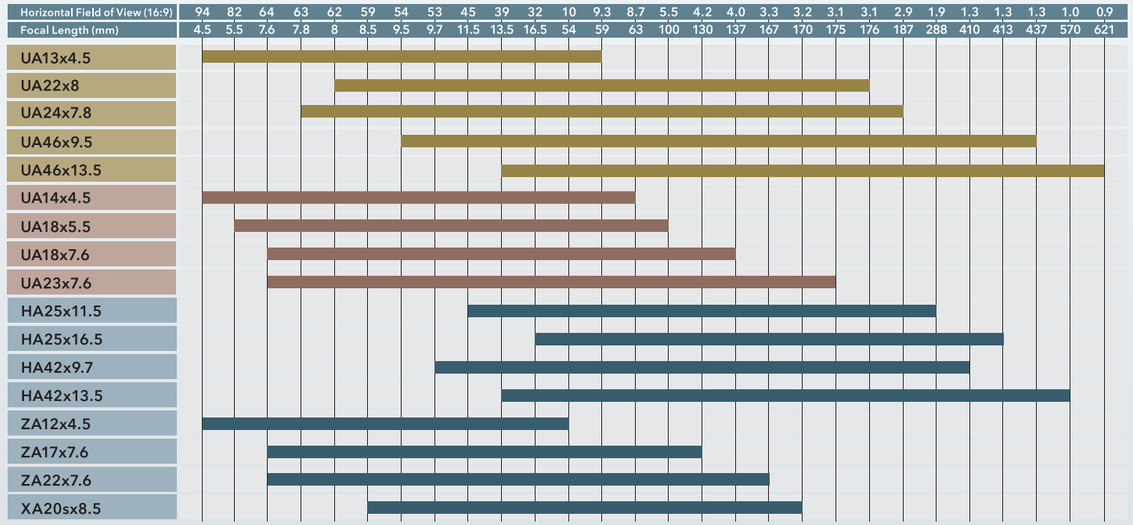


FUJINON TV Lenses Lineup

2/3" Studio / Field Box Lenses



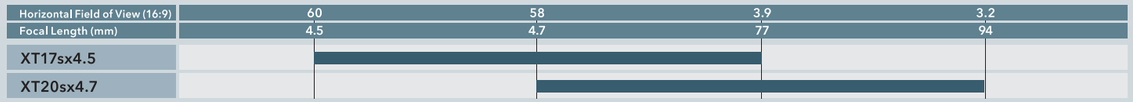
ENG/EFP Portable Lenses (2/3"4K、2/3"HD)



ENG/EFP Portable Lenses (1/2"HD)



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



Studio/Field BOX Lenses

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	(1×) 9mm 3501mm × 1968mm 720mm 46mm × 26mm	(1.2×) 10.8mm 3009mm × 1692mm 864mm 39mm × 22mm	(2×) 18mm 1816mm × 1021mm 1440mm 23mm × 13mm	(1×) 8mm 3198mm × 1799mm 1000mm 27mm × 15mm	(2×) 16mm 1677mm × 943mm 2000mm 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°	(1×) 8mm 61.9° x 37.2° 1000mm 0.55° x 0.31°	(2×) 16mm 33.4° x 19.1° 2000mm 0.27°× 0.15°
Approx. Size	258 x 264 x 610mm(H x W x L)			258 x 264 x 635mm(H x W x 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(H x W x L)		258x264x610mm(H x W x L)	
Approx. Mass	22.8kg		23.8kg	





AF ADVANCED FOCUS

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	
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	(1×) 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°	(1×) 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(H x W x L)		258 x 264 x 670mm(H x W x L)	
Approx. Mass	23.9kg		26.0kg	

Studio / Field Box Lenses





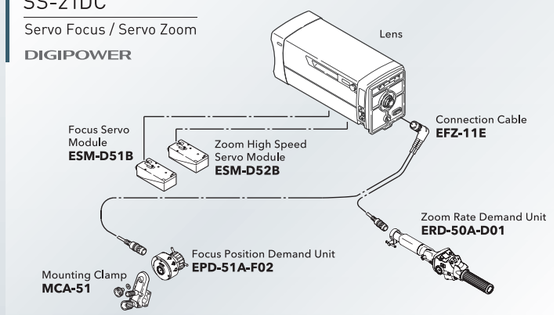
HD HIGH-DEFINITION 2/3”

Model Name		XA55×9.5BESM		XA77×9.5BESM	
Focal Length	(1×) / (2×)	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) 1:2.9(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 × 1564mm 525mm 51 × 29mm	(2×) 19mm 1406 × 790mm 1050mm 26 × 15mm	(1×) 9.5mm 2425 × 1363mm 732mm 32 × 18mm	(2×) 19.0mm 1241 × 697mm 1464mm 16 × 9mm
Angular Field of View 16 : 9 Aspect Ratio	(1×)	9.5mm 53.6° × 31.7° 525mm 1° × 0.6°	(2×) 19mm 28.3° × 16.1° 1050mm 0.5° × 0.3°	(1×) 9.5mm 53.6° × 31.7° 732mm 0.8° × 0.4°	(2×) 18.6mm 28.3° × 16.1° 1464mm 0.4° × 0.2°
Approx. Size		253 × 253 × 876mm(H×W×L)		253 × 253 × 656.4mm(H×W×L)	
Approx. Mass		24.8kg		22.4kg	

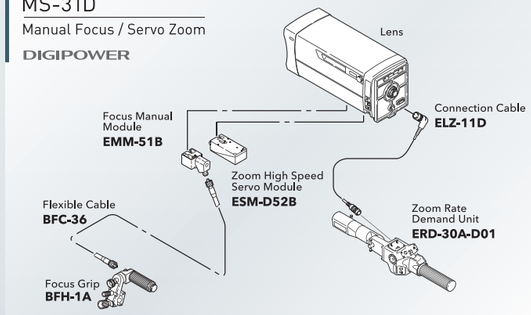
*XA55x9.5BESM without lens supporter model is also available.

Studio/Field Lens System Configuration

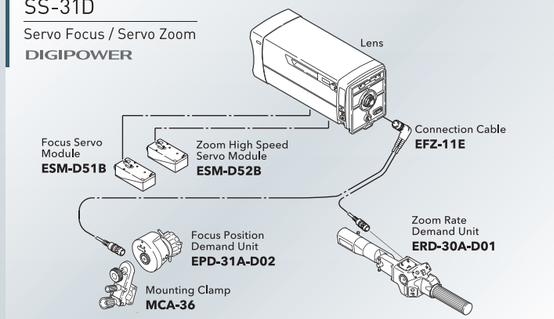
SS-21DC
Servo Focus / Servo Zoom
DIGIPOWER



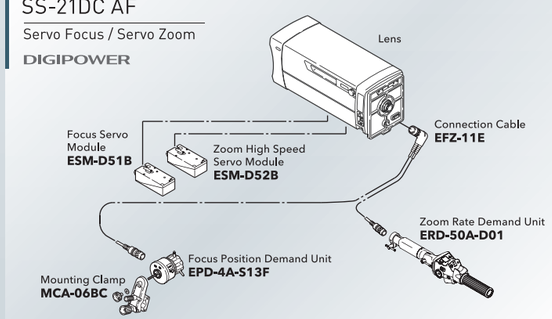
MS-31D
Manual Focus / Servo Zoom
DIGIPOWER



SS-31D
Servo Focus / Servo Zoom
DIGIPOWER



SS-21DC AF
Servo Focus / Servo Zoom
DIGIPOWER



ERD-50A-D01

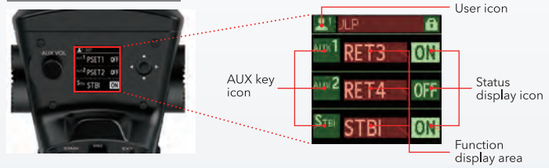
Box Lens Zoom Demand



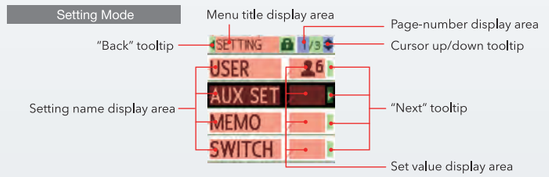
Large LCD Monitor

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

Check Mode



Setting Mode



Main functions Accessible via the LCD Monitor

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

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 STABI button on the top of the demand unit.

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 lenses that support RBF or optional stabilizer

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 UA107×8.4 BESM and UA125×8 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.

EPD-51A-F02

Box Lens Focus Demand



AUX Assignment

The three AUX switches can be assigned various functions.

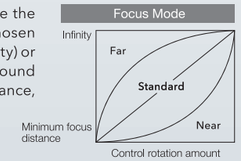
Switch position	Functions	Setting of AUX Switches		
		AUX 1	AUX 2	AUX 3
0	OFF (No Action)	○	○	○
1	Return Switch 1			
2	Return Switch 2			
3	Return Switch 3			
4	Intercomm control			
5	Optical Stabiliser ON/OFF Select			
6	Focus Preset			
7	Extender Select			
8	AutoFocus Action Switch			
9	Reserved (No Action)			

○: Default setting

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.

Focus Mode



Focus Preset

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

Control Accessories List

		Description	Model Name
Lens Focus/Zoom Drive Unit	Servo Digital	Zoom High Speed Module	ESM-D52B
		Focus Servo Module	ESM-D51B
	Manual	Manual Focus/Zoom Module	EMM-51B
Focus	Servo Digital	Focus Position Demand Unit	EPD-51A-F02
			EPD-31A-D02
		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
		Servo Focus Grip	EPA-22
	Manual	Manual Focus Grip	BFH-1A
Zoom	Servo Digital	Zoom Rate Demand Unit	ERD-50A-D01
		Zoom Rate Demand Unit	ERD-30A-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
		Macro Remote Contorller	EA-3A-10AB
		OS-TECH Controller	EA-12A-05BD
		PC Connection Cable	SA-206D-005
		Lens Supporter (For BTA Mount)	ELH-112B-35A
		Protection Glass (UA27)	EPF-196A
		Protection Glass (UA70,80,107)	EPF-226C
		Protection Glass (UA125)	EPF-241

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	(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 × 265mm 352mm 22mm × 12mm
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° × 19.1° 352mm 1.6° × 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	(1×) 7.8mm 883mm × 496mm 187mm 38mm × 21mm	(2×) 15.6mm 459mm × 258mm 374mm 20mm × 11mm	(1×) 9.5mm 2653mmx1491mm 437mm 59mmx33mm	(2×) 19mm 1331x748mm 874mm 30x17mm	(1×) 13.5mm 1886mmx1060mm 621mm 42mmx24mm	(2×) 27mm 936mmx526mm 1242mm 21mmx12mm
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° × 19.6° 374mm 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°	(1×) 13.5mm 39.1°x22.6° 621mm 0.9°x0.5°	(2×) 27mm 20.1°x11.4° 1242mm 0.4°x0.2°
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





Model Name	UA14x4.5BERD		UA18x5.5BERD	
Focal Length (1x)/(2x)	4.5-63mm / 9-126mm		5.5-100mm / 11-200mm	
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	0.3m		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	
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	(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°x20.1° 350mm 1.6°x0.9°
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)	

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		HA25×11.5BERD		HA25×16.5BERD	
Focal Length	(1×) / (2×)	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		(1×) 11.5mm 1740 × 978mm 288mm 70 × 39mm	(2×) 23mm 870 × 489mm 576mm 35 × 20mm	(1×) 16.5mm 1213 × 682mm 413mm 49 × 27mm	(2×) 33mm 606 × 341mm 826mm 24 × 14mm
Angular Field of View 16 : 9 Aspect Ratio		(1×) 11.5mm 45.3° × 26.4° 288mm 1.9° × 1.1°	(2×) 23mm 23.6° × 13.4° 576mm 1° × 0.5°	(1×) 16.5mm 32.4° × 18.6° 413mm 1.3° × 0.7°	(2×) 33mm 16.5° × 9.3° 826mm 0.7° × 0.4°
Filter Thread		M107 × 1/ M127 × 0.75 (Filter attaches to the lens hood.)		M107 × 1/ M127 × 0.75 (Filter attaches to the lens hood.)	
Approx. Size		Φ110 × 265mm(ΦxLength)		Φ110 × 278mm(ΦxLength)	
Approx. Mass		2.81kg (without lens hood)		2.9kg (without lens hood)	




HD HIGH-DEFINITION 2/3”

Model Name		HA42×9.7BERD		HA42×13.5BERD	
Focal Length	(1×) / (2×)	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		(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
Angular Field of View 16 : 9 Aspect Ratio		(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°
Filter Thread		M127 × 0.75		M127 × 0.75	
Approx. Size		Φ130 × 338.5mm(ΦxLength)		Φ130 × 357.5mm(ΦxLength)	
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		ZA12×4.5BERD		ZA17×7.6BERD		ZA22×7.6BERD	
Focal Length	(1×) / (2×)	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		(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
Angular Field of View 16 : 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°
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		Φ95 × 237.5mm(ΦxLength)		Φ85 × 203mm(ΦxLength)		Φ100 × 220.4mm(ΦxLength)	
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		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(ΦxLength)		Φ85 × 200.8mm(ΦxLength)	
Approx. Mass		1.5kg (without lens hood)		1.6kg (without lens hood)	

1/2" Series



HD HIGH-DEFINITION 1/2”

Model Name		XS20s×6.3BRM	
Focal Length	(1×) / (2×)	6.3–126mm /-	
Zoom Ratio		20 ×	
Extender		–	
Maximum Relative Aperture (F-No.)		1 : 1.4 (6.3–88mm) 1 : 2.0 (126mm)	
Minimum Object Distance (M.O.D.) from Front Lens		0.9m	
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio		(1×) 6.3mm 904 × 508mm 126mm 47 × 26mm	(2×) – –
Angular Field of View 16 : 9 Aspect Ratio		(1×) 6.3mm 57.9° × 34.6° 126mm 3.2° × 1.8°	(2×) – –
Filter Thread		M82 × 0.75	
Approx. Size		Φ85 × 181.9mm(ΦxLength)	
Approx. Mass		1.4kg (without lens hood)	

1/3" Series

eXceed Series





HD HIGH-DEFINITION 1/3"

Model Name	XT17s×4.5BRM		XT20s×4.7BRM	
Focal Length (1×)/(2×)	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. 16 : 9 Aspect Ratio	(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×) 4.5mm 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	
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







HD HIGH-DEFINITION 2/3"

Model Name	ZA12×4.5BMD	ZA17×7.6BMD	ZA22×7.6BMD
Focal Length (1×)/(2×)	4.5–54mm / –	7.6–130mm / –	7.6–167mm / –
Zoom Ratio	12 ×	17 ×	22 ×
Extender	–	–	–
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.)	0.3m	0.6m	0.8m
Object Dimensions at M.O.D. 16.9 Aspect Ratio	(1x) 4.5mm 757 × 425mm 54mm 59 × 33mm (2x) – –	(1x) 7.6mm 696 × 392mm 130mm 43 × 24mm (2x) – –	(1x) 7.6mm 915 × 514mm 167mm 43 × 24mm (2x) – –
Angular Field of View 16.9 Aspect Ratio	(1x) 4.5mm 93.6° × 61.8° 54mm 10.1° × 5.7° (2x) – –	(1x) 7.6mm 64.5° × 39° 130mm 4.2° × 2.4° (2x) – –	(1x) 7.6mm 64.5° × 39° 167mm 3.3° × 1.8° (2x) – –
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	Φ95 × 237.5mm(ΦxLength)	Φ85 × 203mm(ΦxLength)	Φ100×220.4mm(ΦxLength)
Approx. Mass	1.88kg (without lens hood)	1.60kg (without lens hood)	1.8kg (without lens hood)





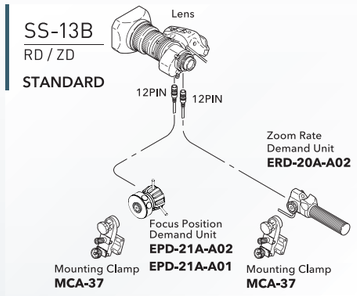
HD HIGH-DEFINITION 2/3" 2/3"

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) 8.5mm 910 × 511mm 170mm 47 × 26mm (2x) - -	(1x) 8.5mm 910 × 511mm 170mm 47 × 26mm (2x) 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) - -	(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	Φ85 × 180.8mm(ΦxLength)	Φ85 × 180.8mm(ΦxLength)
Approx. Mass	1.5kg (without lens hood)	1.6kg (without lens hood)

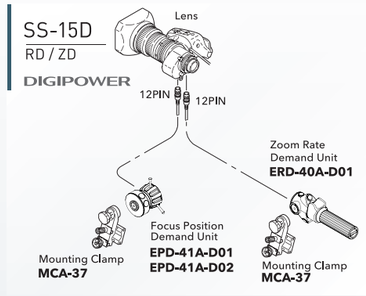
ENG/EFP Portable Lens System Configuration

Full-Servo Control Kit (Servo Focus / Servo Zoom)

SS-13B
RD / ZD
STANDARD

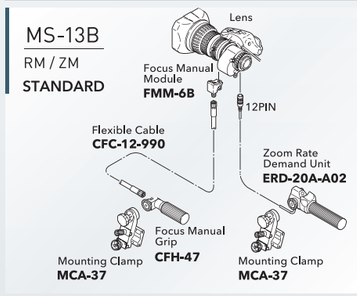


SS-15D
RD / ZD
DIGIPOWER

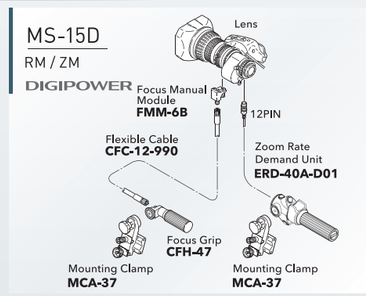


Semi-Servo Control Kit (Manual Focus / Servo Zoom)

MS-13B
RM / ZM
STANDARD



MS-15D
RM / ZM
DIGIPOWER



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

		Description	Model Name
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
		Focus Servo Position Module	FSP-13G
		Digital Shot Box	ESB-6C-E12B
		Mounting Clamp	MCA-06BC
Zoom	Servo	Digital Zoom Rate Demand Unit	ERD-40A-D01
		Mounting Clamp	MCA-37
		Zoom Rate Demand Unit	ERD-20A-A02
Other		VTR Contorl Unit	VRS-20
		Return Control Unit	EXT-30
		Lens Supporter	ALH-127A-01A (for 46x series,for 42x series)
		External OS-TECH Adapter	TS-P58A (HA14,HA18,HA23,HA25,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 (10m)*
		Cable for Lens⇔PC	SA-206D-005
		2x Extender Change Unit (Motor Drive)	ECU-2C
		ECU Adapter(for UA13x / UA24x with RBF / HP12x)	ECU-2AD

* Longer Cables are also available

Digital Zoom Demand

ERD-40A-D01

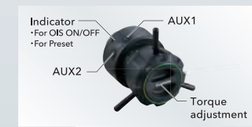




	DIP No.	Function
AUX1	1-1	OIS(Alternate)
	1-2	Preset Zoom
	1-3	Preset Z+F
	1-4	EXT
	1-5	INCOM(ENG)
	1-6	INCOM(PD)
Zoom Mode Switch	1-7	Z curve select
	1-8	Z curve select
RET2/AUX SEL	2-1	RET2 ⇔ AUX2
RET1	2-2	ON/OFF
RET2	2-3	ON/OFF
AUX2	2-4	VTR(REC)
	2-5	EXT
	2-6	INCOM(ENG)
	2-7	INCOM(PD)
	2-8	OIS(Alternate)

Digital Focus Demand

EPD-41A-D01/ D02

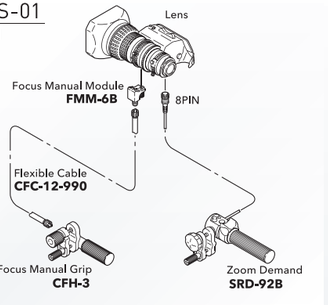




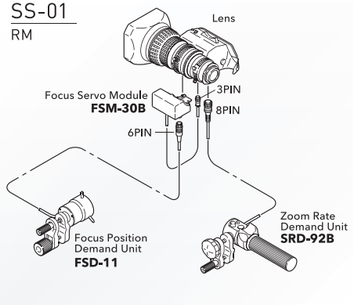
	DIP No.	Function
AUX1	1	RET1
	2	AUX1 ⇔ AUX2
AUX2	3	RET2
	4	OIS
	5	PRESET

eXceed Series System Configuration

MS-01
RM



SS-01
RM



Control Accessories Compatibility

XA20s × 8.5 BE RM →

		Description	Model Name	RM Standard
Focus	Manual	Focus Grip	CFH-3	●
		Flexible Cable	CFC-12-990	●
		Focus Manual Module	FMM-6B	●
	Servo	Focus Servo Module	FSM-30B	●
		Focus Position Demand Unit	FSD-11	●
Zoom	Servo	Zoom Rate Demand Unit	SRD-92B	●
Other		Extention Cable For Focus Servo Demand Unit (FSD-11)	ECA-1000(1m) -5000(5m) / -10000(10m)	
		Extention Cable For Zoom Rate Demand Unit (SRD-92B)	ECC-1000(1m) -5000(5m)	
		For 12PIN Lens Cable	ECE-R22	



Focus Manual Module
FMM-6B



Focus Grip
CFH-3



Focus Servo Demand Unit
FSD-11

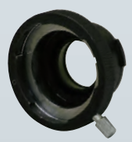


Zoom Rate Demand Unit
SRD-92B

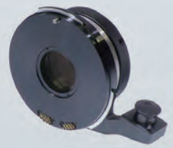
Mount Adapters

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
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.



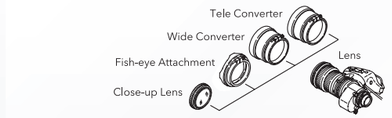
Mount Adapter
ACM-17



Mount Adapter
ACM-21

Optical Accessories for Portable Lenses

Optical accessories expand the capabilities of FUJINON TV lenses.



Tele Converter TCV

▶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 WCV

▶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 decreased.



Fish-eye Attachment F-AT

▶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. ▶Focus is adjustable only by the macro lever of master lens located near the lens mount.



Close-up Lens CL

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

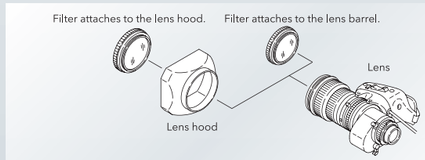


LENS		XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7	UA18×7.6 HA18×7.6 ZA17×7.6	UA24×7.8 UA23×7.6 HA23×7.6 ZA22×7.6
Front Lens Diameter		⌀85		⌀100
Model Name	Magnification / Approx. Mass(kg)			
TCV-U85	1.5× / 1.10		●	
TCV-U100	1.5× / 1.00			●
WCV-U85	0.8× / 1.24		●	
WCV-U100	0.8× / 1.20			●
F-ATU85	0.55× / 0.71		●	
F-ATU100	0.55× / 0.67			●

Model Name	Object Distance	Approx. Mass(kg)			
UCL-8082SC	0.8m	0.28		● M82×0.75	
UCL-8095SC	0.8m	0.42			● M95×1

Effects Filter

Attach to filter screw portion of the zoom lens.



Protection Filter EPF

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



Polarizing Filter PL

▶Polarizing filter reduces polarized light reflections from glass and water surfaces or to improve color saturation. ▶Enhances picture quality by blocking harmful reflected light. ▶Circular type



LENS	UA18×7.6 HA18×7.6 ZA17×7.6 XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7	UA24x7.8 UA23x7.6 HA23×7.6 ZA22×7.6	HA25×11.5 HA25×16.5	UA13x4.5 UA14x4.5 UA18x5.5 UA22x8 HA14x4.5 HA18×5.5 ZA12×4.5 HP12×7.6	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-127PL			●	●	●

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 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 of View (16:9)		86.9	65.5	43.6	25.4	20.4	8.2
Focal Length	Large format*1	19	28	45	80	100	250
	S35mm Format*2	13	19	31	55	68	171
	2/3" Format Equivalent	5.1	7.5	12.0	21.3	26.6	66.6
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/R® 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 /R® 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 (H×V) 40.96mm x 21.60mm*4	19mm : 94.3° × 59.2° 45mm : 48.9° × 27.0°	28mm : 72.4° × 42.2° 100mm : 23.1° × 12.3°	80mm : 28.7° × 15.4° 250mm: 9.4° x 4.9°
Angular Field of View (H×V) 36mm x 24mm*5	19mm : 86.9° × 64.6° 45mm : 43.6° × 29.9°	28mm : 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	19mm : 71.7° × 44.2° 45mm : 33.9° ×19.5°	28mm : 52.2° × 30.8° 100mm : 15.6° × 8.8°	80mm : 19.5° × 11.0° 250mm : 6.3° × 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.

Detachable Digital Servo Grip*2

ZK XK

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.



Cinema style



Broadcast style

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.

Equipped16 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.

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	S35mm Format*	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
ZK2.5×14(14-35mm) T2.9														
ZK4.7×19(19-90mm) T2.9														
ZK3.5×85(85-300mm) T2.9-4.0														
ZK12×25(25-300mm) T3.5-3.85														
XK6×20(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 ×	3.5 ×	4.7 ×
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. 1.78:1 Aspect Ratio**	14mm 701 × 394mm 35mm 275 × 155mm	85mm 274 × 154mm 300mm 79 × 44mm	19mm 917 × 516mm 90mm 193 × 109mm
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°	19mm 71.7° × 44.2° 90mm 17.3° × 9.8°
Focus Rotation	200°	200°	200°
Zoom Rotation	120°	120°	120°
Approx. Size	Φ114 × 231mm(ΦxLength)	Φ114 × 249mm(ΦxLength)	Φ114 × 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
Application	35mm PL Mount Camera
Focal Length	25-300mm
Zoom Ratio	12 ×
T-No.	T3.5(25-273mm) T3.85(300mm)
Compatible Image Size(diagonal)	Maximum 31.5mm
Iris Blades	9
M.O.D.from Image Planes	1.2m / 3ft 11in
Object Dimensions at M.O.D. 1.78:1 Aspect Ratio**	25mm 937 × 527mm 300mm 77 × 43mm
Angular Field of View 1.78:1 Aspect Ratio**	25mm 57.5° × 34.3° 300mm 5.2° × 2.9°
Focus Rotation	280°
Zoom Rotation	120°
Approx. Size	Φ136 × 401mm(ΦxLength)
Approx. Mass	8.4Kg (without optional 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 1109 × 624mm 120mm 182 × 102mm
Angular Field of View 1.78:1 Aspect Ratio**	20mm 63.7° × 38.5° 120mm 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

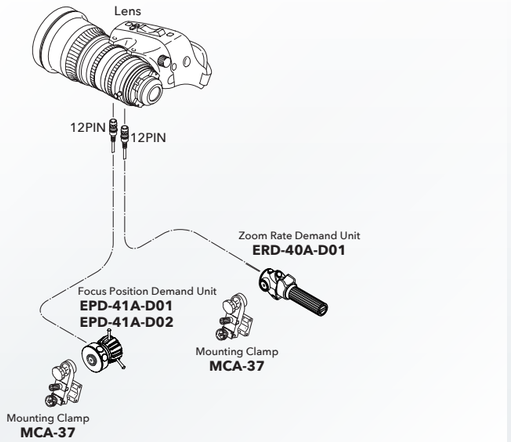




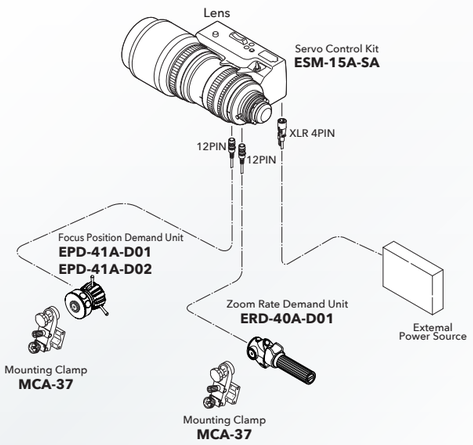
Model Name	MK18-55mm T2.9	MK50-135mm T2.9
Application	Super 35mm/APS-C E-mount Camera	Super 35mm/APS-C E-mount Camera
Focal Length	18-55mm	50-135mm
Zoom Ratio	3.0 x	2.7 x
T-No.	T2.9	T2.9
Compatible Image Size(diagonal)	Maximum 28.5mm	Maximum 28.5mm
Iris Blades	9	9
M.O.D.from Image Planes	0.85m/2ft 9in	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

Servo Control Kit

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



ZK25-300mm T3.5-3.85



*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
Zoom Demand	Digital Zoom Demand (Featured Iris Remote Control)	ERD-40A-D01
	Mounting Clamp	MCA-37
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 - Camera:12pin), L=120cm	SA-206M-1R2
	Power Source Cable (Lens:20pin - Camera:12pin), L=40cm	SA-206M-R40



FUJINON Lens Maintenance

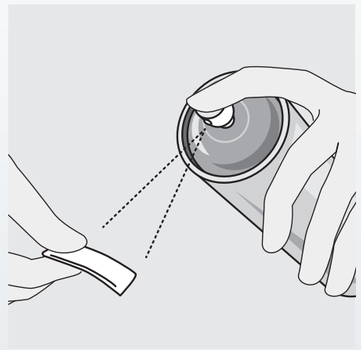
Maintaining high performance levels far into the future

Lens Cleaning

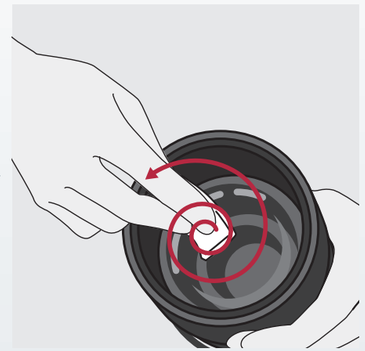
Use commonly available lens cleaner and lens cleaning paper .



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℃ and between 60-80% humidity levels.

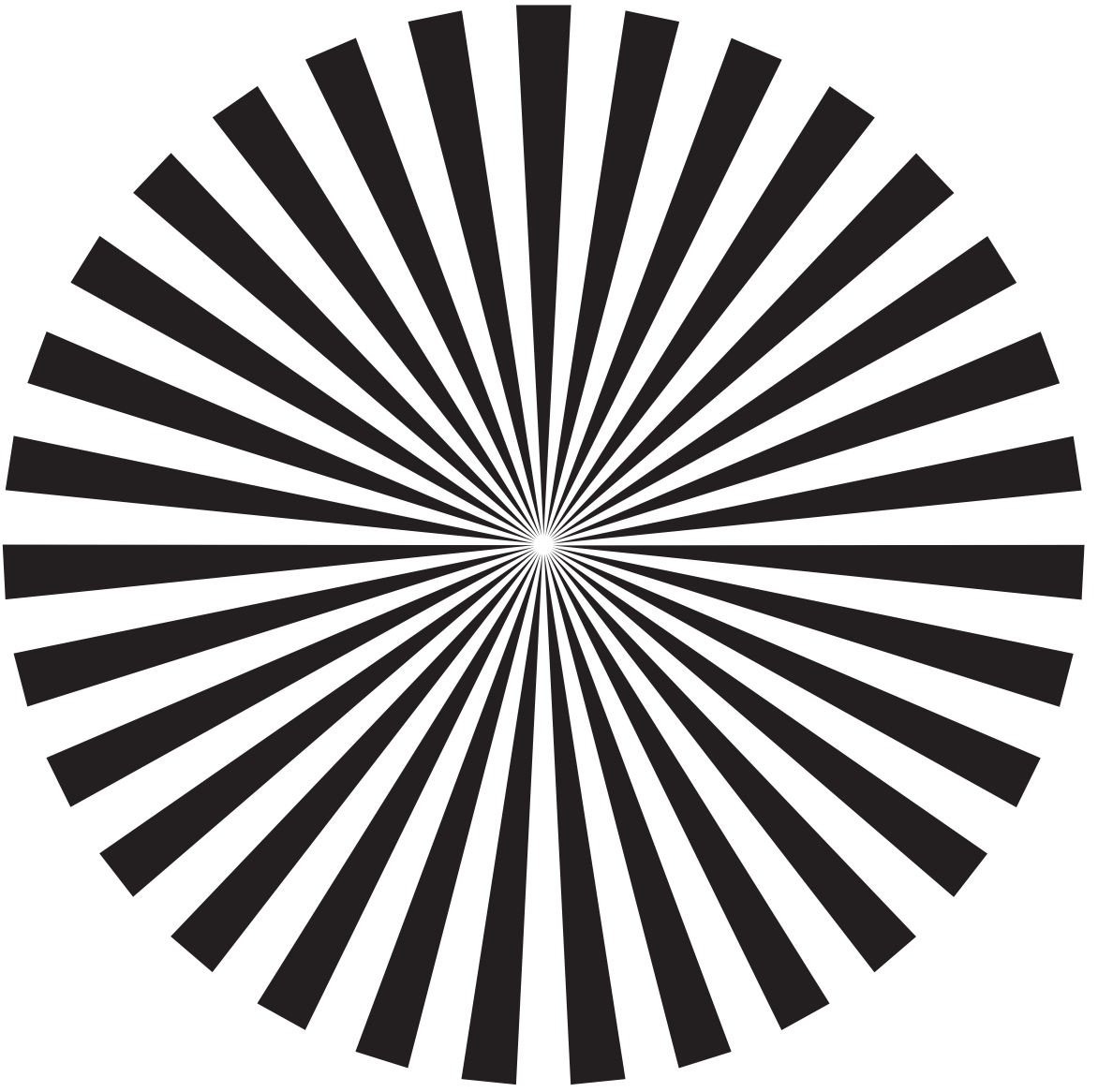
Caution

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.