FUJIFILM
Value from Innovation

Focused on the Future

FUJINON

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TV and Cine Lenses 2017

FUJIFILM
FUJIFILM Corporation
Optical Device & Electronic Imaging Product Division
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Full line of FUJIFILM TV and Cine Lenses

- Covering sports, entertainment, news and filmmaking -

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Focused on the Future

FUJINON Lenses have been highly acclaimed in the world of television broadcasting for many years. As a result of their ultra high quality optical technology and extensive range, FUJINON Lenses are also particularly well-suited for all types of movie production, sports, entertainment and news gathering.

As with all content acquisition lenses are the first point of entry for light. Now with the ever-increasing amount of 4K production for both television and movies, extremely high optical technologies and mobility are required as standard for this level of enhanced, high quality filming. With the advent of 4K broadcasting, we are further enhancing our high precision optical technologies, and are committed to our continued support of those on the front line and cutting edge of motion picture production.

FUJINON History of FUJINON TV Lens

1962			Started the research and development for TV lens.
1967	IF	Inner Focus	First inner focus system for TV broadcasting zoom lens.
1969	Super EBC	Electron Beam Coating	Electron Beam Coating dramatically improved zoom lens performance.
1973	CaF2	Calcium Fluorite	Adoption of calcium fluorite for correcting chromatic aberration for TV lens.
1978	EXT	Built in Extender	First built-in extender for ENG / EFP lens.
1986	FS	Floating System	Microcomputer digitally controlled inner floating lens group corrects field curvature and coma aberration for improved corner resolution.
1992	Vgrip	Variable Grip	Adoption of the variable angle servo grip for ENG / EFP lens reduces wrist fatigue.
1993	AT	Aspheric Lens	Patented glass molding process for aspherical lens elements revolutionized TV zoom lens technology.
1994	Find	Aspherical Technology	Computer controlled digital self diagnostics for Studio and Field lens for rapid trouble shooting and preventative maintenance of lens functions.
1995	Vformat	Variable Grip	Ratio converter maintains proper field of view on switchable 16:9⇔4:3 format cameras.
1996	AF	Auto Focus	First auto-focus ENG / EFP lens for professional use.
1997	AT	Aspherical Technology	Improving on the optical performance mechanism and aspherical lenses.
1998	DIGI POWER	Digital Servo System	Utilization of Digital Technology provides control of zoom lens.
2000	Quickframe For Your Best Shot	Quick Frame	New zooming function for Quick Framing.
2001	OS-TECH	Optical Stabilized System	Utilization of Digital Technology provides control of zoom lens.
2002	HD CINE	FUJINON CINE Lens	2/3 HD CINE / First Cine Style Lens for digital cinema market.
2003	PF	PF	The latest focus assist system to support focus operation.
2009	PL MOUNT	PL Mount Premier Series	PL Mount / Released 35mm PL mount zoom lens used for both Film and Digital cinema cameras.
2015	4K ULTRA HD	4K Ultra HD	First 2/3" sensor 4K lens.





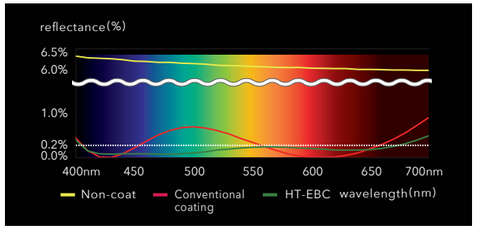



FUJINON Lens Technology

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.

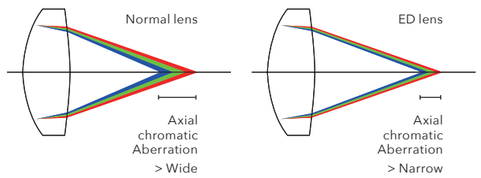
HT-EBC Coating (High Transmittance Electron Beam Coating)

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.



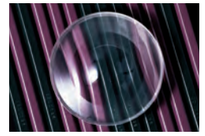
ED-Glass (Extra-Low Dispersion)

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.

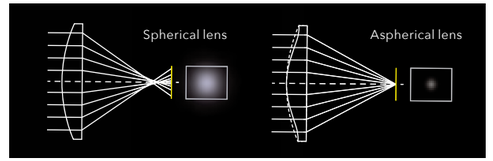


Aspherical Lens

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

DESIGN AWARD 2015

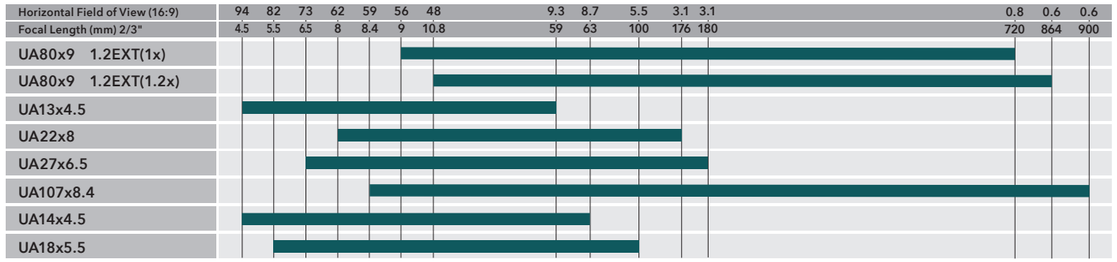
reddot award 2015 winner

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.

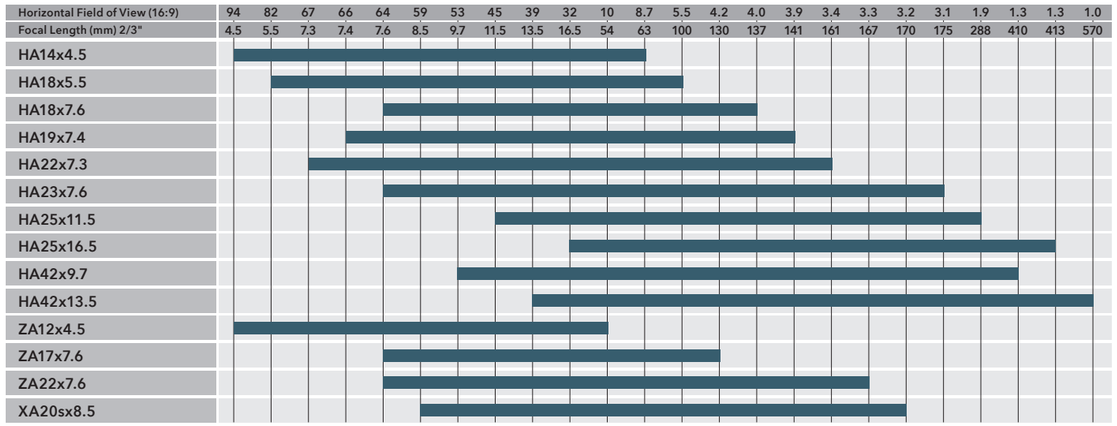
FUJINON TV Lenses Lineup

4K UHD 2/3"Lenses

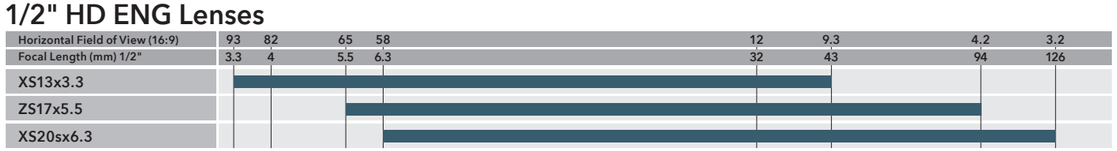


HD Studio/Field Lenses

2/3" HD ENG/EFP Lenses



1/2" HD ENG Lenses



1/3" HD ENG Lenses

Technical Reference

Feature Indications

Mount Type

2/3" Bayonet Mount
Mount standard for 2/3" format cameras. Supply power through 12 pin connector.

1/2" Hot Shoe Mount
Mount standard for 1/2" format cameras from SONY. Supply power through hot-shoe.

1/3" Bayonet Mount
Mount standard for 1/3" format cameras. Supply power through 12 pin connector.

Mechanical Features

Inner Focus System
Focusing by fixing the front lens and then moving the lens in the barrel back-and-forth. Provides a stable grip since the length of the lens is unchanged while focusing. In addition, since the front lens does not rotate while focusing, there is very little effect when using a Polarizing filter.

Quick Frame
A system that allows manual zoom operation with the servo mode engaged.

Electrical Features

DIGIPOWER
Many new functions as well as very accurate lens movement are possible by employing a digital lens operating system. It allows for you for incredible control for every application.

Quick Zoom
High speed zoom (0.7 sec) to the full telephoto position by depressing one button for a focus check, when released, the lens goes back to the original focal length.

Virtual Connector
Interface to virtual systems by employing miniaturized, light weight high performance encoders.

Extender Remote
Built-in motorized extender unit.

Serial Communication
Serial data communications are possible with particular cameras. This function allows for smooth operation with those cameras.

PC Control
Lens control is possible when connected to a PC with the serial control system.

Optical Features

OS-TECH
Built-in Fujifilm own optical anti-vibration system. The OS-TECH system will correct vibration.

2x Extender
Equipped with a built-in 2x extender

Macro
Equipped with a Macro feature which allows focus closer than the lens MOD.

1.2x Extender
Equipped with a built-in 1.2x extender

2.2x Extender
Equipped with Fujifilm's exclusive 2.2x extender, allowing new shooting applications.

Other Features

RoHS
Meets international environmental regulations.

FUJINON Lens Model Explanation

Studio/Field Box Lenses

1	2		3	4	5	6		7	8	9
XA	99	x	8.4	B	E	SM	–	S	35	E

1	Camera Image Sensor Format	UA	2/3" Sensor Format
		XA	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
		D	Minibox Lens
8	Lens Mount	48/35	For Studio Standard Camera Mount (BTA Type)
		8/5	For Sony Camera Original Mount (Octagon Type)
9	Special Function	E	with 1.2x Extender

ENG / EFP Portable Lenses

1	2	3		4	5	6	7		8	
H X	A S	19 20s	x x	7.4 6.3	B B	E	ZD RM	–	T 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
		Non	Standard Definition
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
		Non	No Extender
7	Lens Control Type	RM	Zoom Servo, Focus Manual
		RD	Zoom Servo, Focus Servo
		ZD	Zoom Servo, Focus Servo, with Quick Frame
		MD	Remote Control
8	Drive Unit Type	M	Digital Drive Unit / Zoom Servo, Focus Manual
		S	Digital Drive Unit / Zoom Servo, Focus Servo
		F	Digital Drive Unit / Zoom Servo, Focus Servo, with Extender Remote
		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)

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.

Studio / Field Box Lenses

FUJINON's Studio / Field Lenses are essential for applications requiring the ultimate in control and optical quality.
Our latest box lenses have advanced unique technologies, and they compliment various production styles.
All FUJINON box zoom lenses can be utilized for large sporting events, entertainment and studio program production. Fujifilm will continue to develop products used in a wide-range of productions.

ENG / EFP Portable Lenses

Fujifilm offers a large variety of FUJINON Portable TV Lenses, each uniquely suited to every application.
From a wide 4.5mm to a telephoto 1140mm focal length, more than 40 original lenses complete our product line.
All FUJINON ENG / EFP Lenses are designed to fulfill the requirements and aspirations of visual creators.

4K ULTRA HD
HD HIGH-DEFINITION

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

The new Fujifilm flagship UA Series of 4K 2/3" lenses is the world-first for Ultra HD Broadcast applications. The UA Series delivers true 4K optical quality which is a hallmark our "ZK series" of Cine Lenses. The optical quality is based on large diameter aspherical elements designed by latest optical simulation system. Also, the lens achieves 4K UHD optical performance from center to corner throughout the zoom range while suppressing image distortion due to a newly developed zoom method.

4K ULTRA HD

FUJINON is blazing a trail in 4K imaging, with outstanding 4K optical performance.

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" 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

Crystal clear and crisp 4K image quality is achieved by using optical simulation technologies to reduce every kind of aberration to unprecedented low levels.

HIGH CONTRAST

Excellent 4K imaging quality of even distant detail is faithfully conveyed to the camera by elevating optical performance in the frequency bands that cover the most commonly viewed imaging.

HIGH DYNAMIC RANGE

High-fidelity transmittance of "blacks" to the camera is essential to imaging expression, and FUJINON achieves this with advanced optical material and the latest in lens coating technology. Transmittance is increased to achieve 4K class imaging expression rich in color gamut reproduction.

Reach the summit of 4K optical performance with FUJINON's state-of-the-art technologies

OPTICAL TECHNOLOGY

Minimal aberrations over the entire zoom range and extremely high contrast are achieved by our newly developed zoom approach and our floating focus system.

CONTROL TECHNOLOGY

Boasting focusing control with 4 times the accuracy of a conventional lens system, the extreme focusing precision of FUJINON exceeds even the level demanded by 4K.

MANUFACTURING TECHNOLOGY

Advanced manufacturing technology enables ideal configuration and positioning of lens elements for optimized performance while ultra-high resolution is attained by nano-level precision polishing of the large-diameter aspherical lens elements.

COATING TECHNOLOGY

4K imaging expression rich in color reproduction is realized by the increased red and blue transmittance ratio – a benefit of the HT-EBC coating with the highest transmittance and lowest reflectivity ratios possible.

4K Plus Premier Series

Flagship series with surpassing 4K optical performance

Model Name	UA80x9BESM 1.2x EXT			UA13x4.5BERD		UA22x8BERD	
Focal Length (1x)/(1.2x)/(2x)	9-720mm/10.8-864mm/18-1440mm			4.5-59mm /-/ 9-118mm		8.0-176mm / 16-352mm	
Zoom Ratio	80 x			13 x		22 x	
Extender	1.2 x 2 x			2 x		2 x	
Maximum Relative Aperture (F-No.)	1:1.7 (9-350mm) 1:3.5 (720mm)			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	3.7m			0.3m		0.85m	
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1×) 9mm 350mm × 196mm 720mm 46mm × 26mm	(1.2×) 10.8mm 300mm × 169.2mm 864mm 39mm × 22mm	(2×) 18mm 181.6mm × 102.1mm 1440mm 23mm × 13mm	(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×) 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×) 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	258 x 264 x 610mm			Φ95 x 253mm (ΦxLength)		Φ110 x 241.5mm (ΦxLength)	
Approx. Mass	23.5kg			2.28kg (without Lens Hood)		2.55kg (without Lens Hood)	
Features	2/3" Type, Digital Power, Virtual, Serial Com, PC, OS-TECH, 2x, 1.2x, RoHS			2/3" Type, IF, Digital Power, Virtual, Serial Com, PC, 2x, Macro, RoHS			

4K Premier Series

Excellent 4K optical performance for versetile shooting scene

NEW

Model Name	UA27x6.5BESM		UA107x8.4BESM	
Focal Length (1x)/(1.2x)/(2x)	6.5-180mm / 13-360mm		8.4-900mm / 16.8-1800mm	
Zoom Ratio	27 x		107 x	
Extender	2 x		2 x	
Maximum Relative Aperture (F-No.)	1:1.5(6.5-123mm) 1:2.2(180mm)		1:1.7 (8.4-340mm) 1:4.5 (900mm)	
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×) 8.4mm 3053mm × 1717mm 900mm 30mm × 17mm	(2×) 16.8mm 1594mm × 896mm 1800mm 15mm × 9mm
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×) 8.4mm 59.4° × 35.6° 900mm 0.6° × 0.3°	(2×) 16.8mm 31.9° × 18.2° 1800mm 0.3° × 0.2°
Filter Thread	-		-	
Approx. Size	258 x 264 x 536mm		258 x 264 x 610mm	
Approx. Mass	22.8kg		23.9kg	
Features	2/3" Type, Digital Power, Virtual, Serial Com, PC, 2x, RoHS		2/3" Type, Digital Power, Virtual, Serial Com, PC, OS-TECH, 2x, RoHS	

NEW

NEW

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:F2.8(63mm)		1:1.8(5.5-62mm) 1:F2.9(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)	
Features	2/3" Type, IF, Digital Power, Virtual, Serial Com, PC, 2x, Macro, RoHS			

Studio / Field Box Lenses

DIGIPOWER Digital Servo Technology for Studio/Field Zoom Lens

Quick Zoom

QUICKZOOM speed is 0.6sec from end to end. QUICKZOOM provides a rapid zoom movement to the telephoto position to check focus by the simple push of a switch. Releasing the button returns the lens to the previously selected zoom position. QUICKZOOM can be performed remotely from zoom rate demand units.

QuickZoom

1. Frame your shot. Press Q•Z button.
2. Lens automatically zooms in. Check focus and release Q•Z button.
3. Lens zooms back to original frame in full focus.

Zoom / Focus 3 Fine Mode Select

Zoom / Focus mode switch provides the option to change the zoom response from "normal" to more sensitive action.

One Shot Preset

Zoom and focus can be preset and memorized in advance at a selected position. One touch of the switch during shooting will instantly return to the memorized position for time saving production.

FIND System

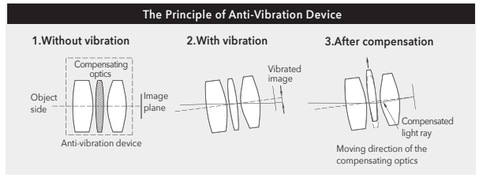
"FIND" is a self-diagnostic system to provide immediate analysis of the lens electronics systems. Installing software for DIGIPOWER in your PC allows a graphical user interface and provides improved diagnostic functions. In addition, the FIND system also works with portable lenses.

Virtual Connector

An interface connector which provides an output of lens positional data is conveniently located on FUJINON's latest box lenses for interface with virtual systems.

OS-TECH Optical Stabilized Technology

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.



Dust Proof and Anti-Fogging

All field lenses incorporate a fixed front element, which reduces dust contamination and serves as protection for the front focus group.

Advanced Back Focus

This system allows macro shooting as close as 0.3m (0.05m on HA27x6.5) from the object.

Automatic Compensation of Focus Breathing

This compensation mechanism enables the image size to remain constant when focusing by synchronizing the zoom movement to the focus movement, then reducing image size change when focusing.

New Unique Zoom / Focus Demands for Studio and Field Lenses

The new digital zoom / focus demand series are designed to enhance usability and heighten ease of operation for DIGIPOWER studio and field lenses. The new demands continue to offer all conventional operability and DIGIPOWER features because the "AUX" switch can able to be assigned for customized functions, allowing operators to expand their capabilities.

Studio / Field Box Lenses

HD HIGH-DEFINITION 2/3"

MINIBOX

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

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 525mm	2782 × 1564mm 51 × 29mm	(2×) 19mm 1050mm	1406 × 790mm 26 × 15mm	(1×) 9.5mm 732mm	2425 × 1363mm 32 × 18mm	(2×) 19.0mm 1464mm	1241 × 697mm 16 × 9mm
Angular Field of View 16 : 9 Aspect Ratio	(1×) 9.5mm 525mm	53.6° × 31.7° 1° × 0.6°	(2×) 19mm 1050mm	28.3° × 16.1° 0.5° × 0.3°	(1×) 9.5mm 732mm	53.6° × 31.7° 0.8° × 0.4°	(2×) 18.6mm 1464mm	28.3° × 16.1° 0.4° × 0.2°
Approx. Size (H×W×L)	253 × 253 × 876mm				253 × 253 × 656.4mm			
Approx. Mass	24.8kg				22.4kg			
Features	2/3 Type, DIGIPOWER, Virtual, Serial Com, PC, OS-TECH, 2x, RoHS							

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

HD HIGH-DEFINITION 2/3"

Model Name	XA88×12.5BESM				XA99×8.4BESM			
Focal Length (1×)/(2×)	12.5–1100mm / 25–2200mm				8.4–832mm / 16.8–1664mm			
Zoom Ratio	88 ×				99 ×			
Extender	2 ×				2 ×			
Maximum Relative Aperture (F-No.)	1 : 2.3(12.5–477mm) 1 : 5.3(1100mm)				1 : 1.7(8.4–341mm) 1 : 4.15(832mm)			
Minimum Object Distance (M.O.D.) from Front Lens	2.9m(12.5–200mm) 3.5m(201–1100mm)				2.9m			
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1×) 12.5mm 1100mm	2091 × 1175mm 24 × 13mm	(2×) 25mm 2200mm	1046 × 588mm 12 × 7mm	(1×) 8.4mm 832mm	2950 × 1658mm 31 × 17mm	(2×) 16.8mm 1664mm	1538 × 864mm 16 × 9mm
Angular Field of View 16 : 9 Aspect Ratio	(1×) 12.5mm 1100mm	42° × 24.3° 0.5° × 0.3°	(2×) 25mm 2200mm	21.7° × 12.3° 0.2° × 0.1°	(1×) 8.4mm 832mm	59.4° × 35.6° 0.7° × 0.4°	(2×) 16.8mm 1664mm	31.9° × 18.2° 0.3° × 0.2°
Approx. Size (H×W×L)	265 × 270 × 593mm				258 × 264 × 610mm			
Approx. Mass	24.5kg				23.5kg			
Features	2/3 Type, DIGIPOWER, Virtual, Serial Com, PC, OS-TECH, 2x, RoHS							

ENG / EFP
Portable Lenses

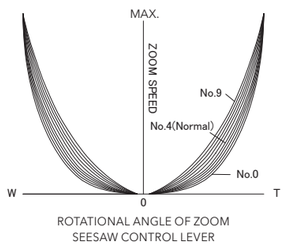
DIGIPOWER Digital Servo Technology for Studio/Field Zoom Lens

Auto Cruising Zoom

Pressing the C-Z button while zooming will set the zoom speed at that rate. Slightly pressing the seesaw switch a second time will return the zoom speed to normal.

Zoom Mode Select

The zoom mode switch provides the option to change the servo zoom response from "normal" to more sensitive at the wide or telephoto positions. With the 10-zoom mode feature for ENG / EFP lenses, the user can select the most suitable sensitivity for their production.



ROTATIONAL ANGLE OF ZOOM SEESAW CONTROL LEVER

Zoom Limit

By using this function the zoom movement toward both the wide and telephoto side can be limited.

Zoom Maximum Speed Adjustment

The maximum zooming speed obtained when pressing the seesaw switch to the end can be adjusted.

Serial Digital Remote Control / PC Control

Remote control of zoom, focus and iris for DIGIPOWER is possible via serial digital link.

Quick Zoom

QUICKZOOM speed is 0.7sec, end to end. QUICKZOOM provides a rapid zoom movement, by the simple push of a button, to the full telephoto position in order to check focus. Releasing the button returns the lens to the original zoom position. The QUICKZOOM function can be performed either from the drive unit or remotely from the zoom rate demand controller.

QuickZoom

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.

Quickframe
For Your Best Shot

Virtual Connector

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

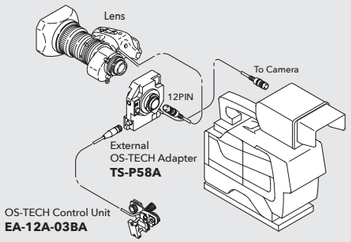
OS-TECH External Optical Stabilized Technology

This feature optically compensates for image vibration by use of the optical shift system. In addition, the TS-P58A adapter provides stabilization for any applicable ENG lens.

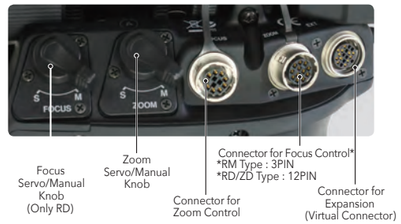
Model Name	TS-P58A
Stabilization System	Optical Shift System
Magnification of Focal Length	1.25 ×
Power Consumption	DC12V, 4.2W (from Camera)
Approx. Size (H×W×L)	150 × 120 × 58mm
Approx. Mass	0.84kg
Applicable Lens	HA14x, HA16x, HA18x, HA19x, HA23x, HA25x, HA42x

F-No. on the master lens becomes 1.25x.

For TS-P58A



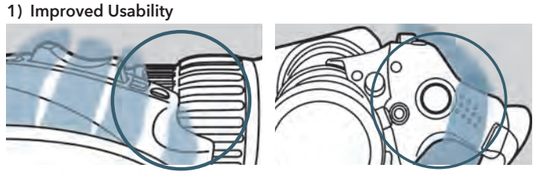
Digital Servo Grip



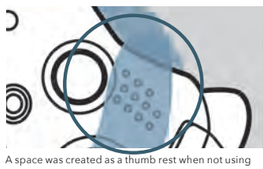
Ergonomic Design

The beauty of our New Drive Grip is that it is focused on usability and comfort. We have worked closely with a number of talented camera operators and implemented their design input in the new drive grip. The grip features a comfortable feel and the controls are naturally placed making a seamless interface.

1) Improved Usability



The design features a place for the operator's pinky finger helping to make for an improved fit for the hand. The overall Grip design was developed for enhanced operator comfort.



A space was created as a thumb rest when not using the VTR switch and the handle area is increased to reduce right hand strain.

2) Easy of Operation

Left hand access to the focus ring has been improved for easier manual focus operation.

Energy Saving Design

The electronics in the new Grip achieve a 50% reduction (approx.) in standby current power and significant operational noise as compared to its predecessor.

Enhanced Motor Mechanism

The accuracy of the motors allow for extremely long and steady zooms. In addition, the precision of the drive exhibits minimal gear backlash.

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		HA14×4.5BERM / BERD		HA18×5.5BERM / BERD		HA18×7.6BERM / BERD	
Focal Length	(1×) / (2×)	4.5–63mm / 9.9–139mm		5.5-100mm / 11-200mm		7.6–137mm / 15.2–274mm	
Zoom Ratio		14 ×		18 ×		18 ×	
Extender		2.2 ×		2 ×		2 ×	
Maximum Relative Aperture (F-No.)		1 : 1.8 (4.5–41mm) / 1 : 2.8 (63mm)		1:1.8(5.5mm-62mm) / 1:2.9(100mm)		1 : 1.8 (7.6–103mm) / 1 : 2.4 (137mm)	
Minimum Object Distance (M.O.D.) from Front Lens		0.3m		0.4m		0.6m	
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio		(1×) 4.5mm 743 × 418mm 63mm 51 × 29mm	(2.2×) 9.9mm 329 × 185mm 139mm 24 × 13mm	(1×) 5.5mm 800 × 450mm 100mm 44 × 25mm	(2×) 11mm 395 × 222mm 200mm 22 × 12mm	(1×) 7.6mm 696 × 392mm 137mm 41 × 23mm	(2×) 15.2mm 362 × 204mm 274mm 21 × 12mm
Angular Field of View 16 : 9 Aspect Ratio		(1×) 4.5mm 93.6° × 61.8° 63mm 8.7° × 4.9°	(2.2×) 9.9mm 51.7° × 30.5° 139mm 4° × 2.2°	(1×) 5.5mm 82.2° × 52.2° 100mm 5.5° × 3.1°	(2×) 11mm 47.1° × 27.5° 200mm 2.7° × 1.5°	(1×) 7.6mm 64.5° × 39° 137mm 4° × 2.3°	(2×) 15.2mm 35° × 20.1° 274mm 2° × 1.1°
Filter Thread		M127 × 0.75 (Filter attaches to the lens hood.)		M127 × 0.75 (Filter attaches to the lens hood)		M82 × 0.75	
Approx. Size (Φ×Length)		Φ95 × 238.5mm		Φ95 × 240.5mm		Φ85 × 204mm	
Approx. Mass (without Lens Hood)		2.18kg(RM) / 2.26kg(RD)		1.97kg(RM) / 2.04kg(RD)		1.62kg(RM) / 1.69kg(RD)	
Features		2/3" IF CANPOWER Virtual SerialCom PC 2.2x Macro RoHS		2/3" IF CANPOWER Virtual SerialCom PC 2x Macro RoHS			
Option		QuickZoom					



HD HIGH-DEFINITION 2/3”

Model Name		HA19×7.4BERM / BERD		HA22×7.3BERM / BERD		HA23×7.6BERM / BERD	
Focal Length	(1×) / (2×)	7.4–141mm / 16.3–310mm		7.3–161mm / 14.6–322mm		7.6–175mm / 15.2–350mm	
Zoom Ratio		19 ×		22 ×		23 ×	
Extender		2.2 ×		2 ×		2 ×	
Maximum Relative Aperture (F-No.)		1 : 1.8(7.4–98mm) / 1 : 2.6(141mm)		1 : 1.9(7.3–113mm) / 1 : 2.7(161mm)		1 : 1.8 (7.6–122mm) / 1 : 2.65 (175mm)	
Minimum Object Distance (M.O.D.) from Front Lens		0.55m		0.85m		0.8m	
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio		(1×) 7.4mm 773 × 434mm 141mm 42 × 24mm	(2.2×) 16.3mm 359 × 202mm 310mm 20 × 11mm	(1×) 7.3mm 1222 × 687mm 161mm 55 × 31mm	(2×) 14.6mm 609 × 342mm 322mm 28 × 16mm	(1×) 7.6mm 915 × 514mm 175mm 41 × 23mm	(2×) 15.2mm 473 × 266mm 350mm 21 × 12mm
Angular Field of View 16 : 9 Aspect Ratio		(1×) 7.4mm 65.9° × 40° 141mm 3.9° × 2.2°	(2.2×) 16.3mm 32.8° × 18.8° 310mm 1.8° × 1°	(1×) 7.3mm 66.6° × 40.5° 161mm 3.4° × 1.9°	(2×) 14.6mm 36.4° × 20.9° 322mm 1.7° × 1°	(1×) 7.6mm 64.5° × 39° 175mm 3.1° × 1.8°	(2×) 15.2mm 35° × 20.1° 350mm 1.6° × 0.9°
Filter Thread		M95 × 1 / M107 × 1 (Filter attaches to the lens hood.)		M127 × 0.75 (Filter attaches to the lens hood.)		M95 × 1 / M107 × 1 (Filter attaches to the lens hood.)	
Approx. Size (Φ×Length)		Φ100 × 239.5mm		Φ110 × 287.3mm		Φ100 × 223.6mm	
Approx. Mass (without Lens Hood)		2.21kg(RM) / 2.28kg(RD)		3.15kg(RM) / 3.22kg(RD)		1.88kg(RM) / 1.95kg(RD)	
Features		2/3" IF CANPOWER Virtual SerialCom PC 2.2x Macro RoHS		2/3" IF CANPOWER Virtual SerialCom PC 2x Macro RoHS			
Option		QuickZoom				QuickZoom	




HD HIGH-DEFINITION 2/3”

Model Name		HA25×11.5BERD		HA25×16.5BERD		HA42×9.7BERD		HA42×13.5BERD	
Focal Length	(1×) / (2×)	11.5–288mm / 23–576mm		16.5–413mm / 33–826mm		9.7–410mm / 19.4–820mm		13.5–570mm / 27–1140mm	
Zoom Ratio		25 ×		25 ×		42 ×		42 ×	
Extender		2 ×		2 ×		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)		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		2.2m		2.2m		2.8m		2.8m	
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	(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×) 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°	(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		M107 × 1/ M127 × 0.75 (Filter attaches to the lens hood.)		M107 × 1/ M127 × 0.75 (Filter attaches to the lens hood.)		M127 × 0.75		M127 × 0.75	
Approx. Size (Φ×Length)		Φ110 × 265mm		Φ110 × 278mm		Φ130 × 338.5mm		Φ130 × 358.5mm	
Approx. Mass (without Lens Hood)		2.81kg		2.9kg		5.3kg		5.4kg	
Features		2/3" IF CANPOWER SerialCom PC 2x Macro RoHS				2/3" IF CANPOWER SerialCom PC OS-TECH 2x Macro RoHS			

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		ZA12×4.5BERM / BERD		ZA17×7.6BERM / BERD		ZA22×7.6BERM / BERD	
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 (Φ×Length)		Φ95 × 237.5mm		Φ85 × 204mm		Φ100 × 220.4mm	
Approx. Mass (without Lens Hood)		2.0kg (RM) / 2.07kg (RD)		1.67kg (RM) / 1.74kg (RD)		1.85kg (RM) / 1.92kg (RD)	
Features		2/3" IF CANPOWER Virtual SerialCom PC 2x Macro RoHS					

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 (Φ×Length)		Φ85 × 180.8mm		Φ85 × 200.8mm	
Approx. Mass (without Lens Hood)		1.5kg		1.6kg	
Features		2/3" IF QuickZoom*1 SerialCom Macro RoHS		2/3" IF QuickZoom*1 SerialCom 2x Macro RoHS	

*1: It is necessary to set lens up to use Quick Zoom function.

1/2" Series

SELECT Series

eXceed Series

HD HIGH-DEFINITION 1/2”

Model Name	XS13×3.3BRM	ZS17×5.5BERM	XS20s×6.3BRM
Focal Length (1×) / (2×)	3.3–43mm / –	5.5–94mm / 11–188mm	6.3–126mm / –
Zoom Ratio	13 ×	17 ×	20 ×
Extender	–	2 ×	–
Maximum Relative Aperture (F-No.)	1 : 1.4 (3.3–32mm) / 1 : 1.9 (43mm)	1 : 1.4 (5.5–77mm) / 1 : 1.7 (94mm)	1 : 1.4 (6.3–88mm) / 1 : 2.0 (126mm)
Minimum Object Distance (M.O.D.) from Front Lens	0.3m	0.6m	0.9m
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1×) 3.3mm 752 × 423mm 43mm 54 × 30mm / (2×) – –	(1×) 5.5mm 692 × 389mm 94mm 42 × 24mm / (2×) 11mm 363 × 204mm 188mm 22 × 12mm	(1×) 6.3mm 904 × 508mm 126mm 47 × 26mm / (2×) – –
Angular Field of View 16 : 9 Aspect Ratio	(1×) 3.3mm 93.1° × 61.4° 43mm 9.3° × 5.2° / (2×) – –	(1×) 5.5mm 64.7° × 39.2° 94mm 4.2° × 2.4° / (2×) 11mm 35.2° × 20.2° 188mm 2.1° × 1.2°	(1×) 6.3mm 57.9° × 34.6° 126mm 3.2° × 1.8° / (2×) – –
Filter Thread	M127 × 0.75 (Filter attaches to the lens hood.)	M82 × 0.75	M82 × 0.75
Approx. Size (Φ×Length)	Φ95 × 240.5mm	Φ85 × 206.6mm	Φ85 × 181.9mm
Approx. Mass (without Lens Hood)	1.93kg	1.67kg	1.4kg (RM)
Features	1/2" Bayonet, IF, i-DIGINOVER, Virtual, Serial Com, I²C, Macro, RoHS	1/2" Bayonet, IF, i-DIGINOVER, Virtual, Serial Com, I²C, 2×, Macro, RoHS	1/2" Bayonet, IF, Quick Zoom *1, Serial Com, Macro, RoHS

1/3" Series

PREMIER Series

eXceed Series

HD HIGH-DEFINITION 1/3”

Model Name	HTs18×4.2BERM	XT17s×4.5BRM	XT20s×4.7BRM
Focal Length (1×) / (2×)	4.2–76mm / 8.4–152mm	4.5–77mm / –	4.7–94mm / –
Zoom Ratio	18 ×	17 ×	20 ×
Extender	2 ×	–	–
Maximum Relative Aperture (F-No.)	1 : 1.4 (4.2–76mm) / 1 : 2.8 (8.4–152mm)	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	0.6m	0.95m	0.9m
Object Dimensions at M.O.D. 16 : 9 Aspect Ratio	(1×) 4.2mm 697 × 392mm 76mm 41 × 23mm / (2×) 8.4mm 360 × 202mm 152mm 21 × 12mm	(1×) 4.5mm 999 × 562mm 77mm 60 × 34mm / (2×) – –	(1×) 4.7mm 901 × 506mm 94mm 47 × 26mm / (2×) – –
Angular Field of View 16 : 9 Aspect Ratio	(1×) 4.2mm 63.8° × 38.6° 76mm 3.9° × 2.2° / (2×) 8.4mm 34.6° × 19.9° 152mm 2° × 1.1°	(1×) 4.5mm 60.3° × 36.2° 77mm 3.9° × 2.2° / (2×) – –	(1×) 4.7mm 58.2° × 34.7° 94mm 3.2° × 1.8° / (2×) – –
Filter Thread	M82 × 0.75	M82 × 0.75	M82 × 0.75
Approx. Size (Φ×Length)	Φ85 × 214.1mm	Φ85 × 175.6mm	Φ85 × 189.8mm
Approx. Mass (without Lens Hood)	1.66kg	1.28kg	1.48kg
Features	1/3" Bayonet, IF, i-DIGINOVER, Virtual, Serial Com, I²C, 2×, Macro, RoHS	1/3" Bayonet, IF, Quick Zoom *1, Macro, RoHS	

*1: It is necessary to set up the lens to use Quick Zoom function.

Remote Control Lenses

FUJINON Videoconferencing series offer a complete line of remote control lenses from wide to telephoto.
FUJINON Videoconferencing lenses are ideal for a wide variety of applications.

HD HIGH-DEFINITION 2/3”

Model Name	ZA12×4.5BEMD	ZA17×7.6BEMD	ZA22×7.6BEMD
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.)	0.3m	0.6m	0.8m
Macro	Standard	Standard	Standard
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 (Φ×Length)	Φ95 × 237.5mm	Φ85 × 204mm	Φ100×220.4mm
Approx. Mass (without Lens Hood)	1.96kg	1.68kg	1.81kg

HD HIGH-DEFINITION

Model Name	XA20s×8.5BMD	XA20s×8.5BEMD	XT17s×4.5BMD
	2/3”	2/3”	1/3”
Focal Length (1×) / (2×)	8.5–170mm / –	8.5–170mm / 17–340mm	4.5 – 77mm / –
Zoom Ratio	20 ×	20 ×	17 ×
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)	1 : 1.6(4.5–77mm)
Minimum Object Distance (M.O.D.)	0.9m	0.9m	0.95m
Macro	Standard	Standard	Standard
Filter Thread	M82×0.75	M82×0.75	M82 × 0.75
Approx. Size (Φ×Length)	Φ85×200.8mm	Φ85×200.8mm	Φ85 × 175.6mm
Approx. Mass (without Lens Hood)	1.47kg	1.55kg	1.38kg

FUJINON Cine Lenses

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

FUJINON

4K

CINE LENSES

HK Premier Series

Fujifilm engineers exhaustively develop the HK Premier Series utilizing our expertise and knowledge gained from the lens design process honed over many years.
The contrast performance is rich, the resolution - superb.
The net results are lenses with excellent overall balance.

ZK Cabrio Series

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

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

XK Cabrio Series

The XK Cabrio Series also equip operational features of ZK Cabrio Series. The lens offers 4K compatible optical performance and covers a wide range of focal length from 20mm to 120mm. It also realizes T3.5 brightness in the entire zoom range. Various scenes can be shot with this single lens.

MK Series

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

4K Compatible Optical Performance Lenses for Cinema Production

FUJINON Cine Lenses are developed to cover the "Super 35mm" image sensor that is used today in almost all current digital cinema cameras. Special low dispersion glass, as well as high refractive index glass, are arranged to achieve the best optimal balance. The zoom mechanism suppresses aberrations from the WIDE side to the TELE end by adopting our exclusive floating method. These lenses feature a special HT-EBC multi layer coating technology to reduce flare and ghosts improving image quality. In addition, the contrast performance is rich with a superb 4K compatible resolution. The net result is a lens series with excellent overall balance.

9-Blade Iris for Natural Bokeh

HK ZK XK MK

In order to improve the depiction of a more natural out of focus image and a nearly perfect round shape of the aperture, FUJINON PL mount cine lenses have an optimal 9-blade iris. Images of bright objects, not in critical focus, will look more natural and pleasing to the eye.

Detachable Digital Servo Grip*

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.

* Mounted as standard in ZK2.5x14, ZK4.7x19, ZK3.5x85 and XK6x20; optional on the ZK12x25.

Cinema style

Broadcast style

Mechanical design for good manual operability

HK ZK XK MK

FUJINON Cine lenses are designed by emphasizing good manual operability.

- Operation is smooth with free of torque changes and jerkiness.
- Smooth focusing with no torque variation or friction helps accurate focus adjustment
- The gear rings for focus, zoom and iris adjustment have a pitch of 0.8M, the same as existing FUJINON cine lenses, for compatibility with standard cine accessories.
- An original universal font for markings offers excellent visibility in any shooting situation.

HK Premier Series

Horizontal Field of View (16:9)		79	67	53	29	18	16	7.4	3.2
Focal Length	S35mm Format*	14.5	18	24	45	75	85	180	400
	2/3" Format Equivalent	5.8	7.2	9.6	18	30	34	72	160
HK3.1x14.5		■	■	■					
HK4.7x18			■	■	■	■			
HK7.5x24				■	■	■	■	■	
HK5.3x75						■	■	■	■

*Sensor size : 24.0 x 13.5

ZK Cabrio Series

Horizontal Field of View (16:9)		89	72	58	43	18	17	5
Focal Length	S35mm Format*	14	19	25	35	85	90	300
	2/3" Format Equivalent	4.9	6.6	8.7	12.2	29.7	31.4	104
ZK12x25				■	■	■	■	■
ZK2.5x14		■	■	■	■			
ZK4.7x19			■	■	■	■	■	
ZK3.5x85						■	■	■

*Sensor size : 27.45 x 15.44

XK Cabrio Series

Horizontal Field of View (16:9)		63	11
Focal Length	S35mm Format*	20	120
	2/3" Format Equivalent	7.7	46.3
XK6x20		■	■

*Sensor size : 24.84 x 13.97

MK Series

Horizontal Field of View (16:9)		69.2	27.9	25.5	10.5
Focal Length	S35mm Format*	18	50	55	135
	2/3" Format Equivalent	6.9	19.3	21.2	52.1
MK18-55mm		■	■	■	
MK50-135mm			■	■	■

*Sensor size : 24.84 x 13.97

Power supply

ZK XK

The power for the servo drive unit is available via a hot-shoe mount or external power supply.*1
For the external power supply, you can connect to the camera (12 pin) or power-supply box (XLR 4 pin / D-tap) by optional cables.

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.

Compatible withthe existing operation accessories

ZK XK

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

ZK/XK series switch for activating the driving unit

Upper side switch

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

Lower side switch

(1) Camera communication ON/OFF switch
(2) Camera communication method selector switch (ON: ARRI LDS; OFF: Cooke /i)
(3) Analog Zoom Demand and Zoom Mode function ON/OFF switch
(4) Back-up switch

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

HK Premier Series

Model Name	HK3.1×14.5	HK4.7×18
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	14.5–45mm	18–85mm
Zoom Ratio	3.1 ×	4.7 ×
T-No.	T2.0	T2.0
Iris Blades	9	9
M.O.D.from Image Planes	0.71m / 2ft 4in	0.82m / 2ft 9in
Object Dimensions at M.O.D. 1.78 : 1 Aspect Ratio*	14.5mm 693 × 390mm 45mm 215 × 121mm	18mm 656 × 369mm 85mm 139 × 78mm
Angular Field of View 1.78 : 1 Aspect Ratio*	14.5mm 79.2° × 49.9° 45mm 29.9° × 17.1°	18mm 67.4° × 41.1° 85mm 16.1° × 9.1°
Focus Rotation	280°	280°
Zoom Rotation	160°	160°
Apporox. Size (Φ×Length)	Φ136 × 310mm	Φ136 × 352mm
Apporox. Mass	6.5kg	7.0kg

*Image Size : 24.0mm x 13.5mm (Φ27.5mm)

Model Name	HK7.5×24	HK5.3×75
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	24–180mm	75–400mm
Zoom Ratio	7.5 ×	5.3 ×
T-No.	T2.6	T2.8(75-290mm) T3.8(400mm)
Iris Blades	9	9
M.O.D.from Image Planes	1.24m / 4ft 1in	2m / 6ft 9in
Object Dimensions at M.O.D. 1.78 : 1 Aspect Ratio*	24mm 924 × 520mm 180mm 119 × 67mm	75mm 580 × 326mm 400mm 113 × 64mm
Angular Field of View 1.78 : 1 Aspect Ratio*	24mm 53.1° × 31.4° 180mm 7.6° × 4.3°	75mm 18.2° × 10.3° 400mm 3.4° × 1.9°
Focus Rotation	280°	280°
Zoom Rotation	160°	160°
Apporox. Size (Φ×Length)	Φ136 × 405mm	Φ136 × 444mm
Apporox. Mass	8.9kg	9.1kg

*Image Size : 24.0mm x 13.5mm (Φ27.5mm)

ZK Cabrio Series

Model Name	ZK12x25
Application	35mm PL Mount Camera
Focal Length	25-300mm
Zoom Ratio	12 ×
T-No.	T3.5(25-273mm) T3.85(300mm)
Iris Blades	9
M.O.D.from Image Planes *[with macro function at wide end]	1.2m / 4ft [0.59m / 1ft 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 (Φ×Length)	Φ136 × 401mm
Approx. Mass	8.4Kg (without optional Drive Unit)

**Image Size : 27.45mm x 15.44mm (Φ31.5mm)

ZK/XK Cabrio Series

Model Name	ZK2.5×14	ZK4.7×19
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	14–35mm	19–90mm
Zoom Ratio	2.5 ×	4.7 ×
T-No.	T2.9	T2.9
Iris Blades	9	9
M.O.D.from Image Planes *[with macro function at wide end]	0.6m / 2ft [0.33m / 13in]*	0.85m / 2ft 10in [0.37m / 15in]*
Object Dimensions at M.O.D. 1.78:1 Aspect Ratio**	14mm 701 × 394mm 35mm 275 × 155mm	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°	19mm 71.7° × 44.2° 90mm 17.3° × 9.8°
Focus Rotation	200°	200°
Zoom Rotation	120°	120°
Approx. Size (Φ×Length)	Φ114 × 231mm	Φ114 × 226mm
Approx. Mass	2.9kg (with Drive Unit) / 2.4kg (without Drive Unit)	2.8kg (with Drive Unit) / 2.3kg (without Drive Unit)

**Image Size : 27.45mm x 15.44mm (Φ31.5mm)

Model Name	ZK3.5×85	XK6×20
Application	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	85–300mm	20–120mm
Zoom Ratio	3.5 ×	6 ×
T-No.	T2.9(85–218mm) T4.0(300mm)	T3.5
Iris Blades	9	9
M.O.D.from Image Planes *[with macro function at wide end]	1.2m / 4ft [0.97m / 3ft 2in]*	1.1m / 3ft 7in [0.4m / 1ft 4in]*
Object Dimensions at M.O.D. 1.78:1 Aspect Ratio**	85mm 274 × 154mm 300mm 79 × 44mm	20mm 1109 × 624mm 120mm 182 × 102mm
Angular Field of View 1.78:1 Aspect Ratio**	85mm 18.3° × 10.4° 300mm 5.2° × 2.9°	20mm 63.7° × 38.5° 120mm 11.8° × 6.7°
Focus Rotation	200°	200°
Zoom Rotation	120°	90°
Approx. Size (Φ×Length)	Φ114 × 249mm	Φ114 × 239mm
Approx. Mass	3.1kg (with Drive Unit) / 2.6kg (without Drive Unit)	2.9kg (with Drive Unit) / 2.4kg (without Drive Unit)

**Image Size : 27.45mm x 15.44mm (Φ31.5mm)

**Image Size : 24.84mm x 13.97mm (Φ28.5mm)

MK Series

NEW

NEW

On sale summer 2017

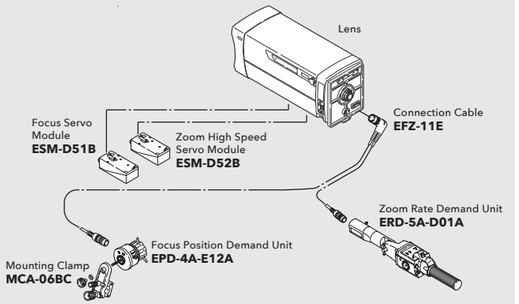
Model Name	MK18-55mm T2.9	MK50-135mm T2.9
Application	Super 35mm/APS-C E-mount Camera	Super 35mm/APS-C E-mount Camera
Focal Length	18-55mm	50-135mm
Zoom Ratio	3.0 x	2.7 x
T-No.	T2.9 / F2.75	T2.9 / F2.75
Iris Blades	9	9
M.O.D.from Image Planes *[with macro function at wide end]	0.85m/2ft 9in [0.38m/1ft 2.9in]*	1.2m/3ft 11in [0.85m/2ft 9in]*
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°
Filter diameter	82mm	82mm
Front diameter	85mm	85mm
Approx. Size (φ x Length)	Φ87mm x 206.3mm	Φ87mm x 206.3mm
Approx. Mass	980g	980g

**Image Size : 24.84mm x 13.97mm (Φ28.5mm)

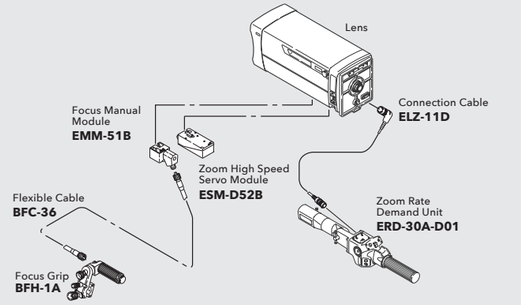
FUJINON Lens Accessory Guide

Studio/Field Lens System Configuration

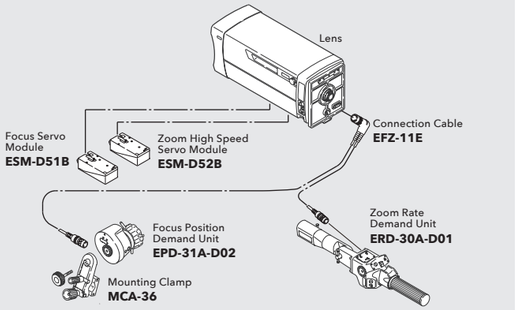
SS-21DB Servo Focus / Servo Zoom — DIGIPOWER



MS-31D Manual Focus / Servo Zoom — DIGIPOWER

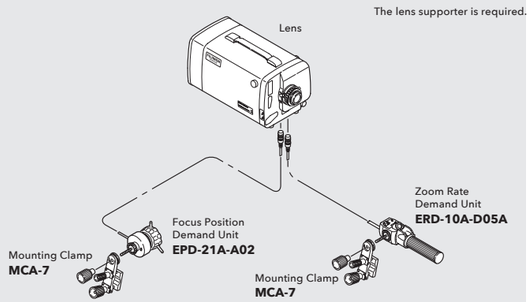


SS-31D Servo Focus / Servo Zoom — DIGIPOWER



SS-MB (Minibox Studio Lens) Servo Focus / Servo Zoom

The lens supporter is required.



Control Accessories List

		Description	Model Name	DIGIPOWER Studio/Field
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-31A-D02	●
		Mounting Clamp	MCA-36	●
		Focus Position Demand Unit	EPD-4A-E12A	●
		Mounting Clamp	MCA-06BC	●
		Servo Focus Grip	EPA-22	●
	Manual	Manual Focus Grip	BFH-1A	●
Zoom	Servo Digital	Zoom Rate Demand Unit	ERD-30A-D01	●
		Zoom Rate Demand Unit	ERD-5A-D01A	●
	Manual	Zoom Manual Handle	BZH-2A	●
Other		Connection Cable (Y Cable for Full-Servo Kit)	EFZ-11E	●
		Connection Cable (Cable for Semi-Servo Kit)	ELZ-11D	●
		Flexible Cable	BFC-36	●
		Range Selector	ERS-51B	●
		Macro Remote Contorller	EA-3A-10A	●
		OS-TECH Controller	EA-12A-05BD	●
		PC Connection Cable	SA-206D-005	●
		Lens Supporter (for BTAMount)	ELH-112A-35A	●
		Lens Supporter (for Sony Mount)	ELH-112A-05A	●

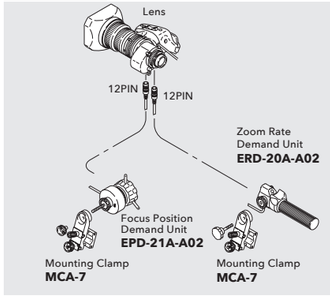
Control Accessories for XA22x7BES (Minibox)

	Description	Model Name
Focus	Focus Position Demand Unit	EPD-21A-A02
	Mounting Clamp	MCA-7
Zoom	Zoom Demand (Featured x2 Extender Remote)	ERD-10A-D05A
	Mounting Clamp	MCA-7
Other	Lens Supporter	ALH-117C-02A

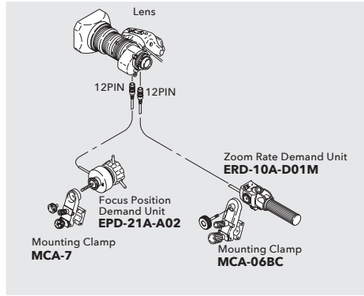
ENG/EFP Portable Lens System Configuration

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

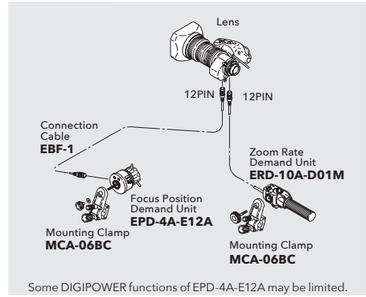
SS-13A RD / ZD — STANDARD



SS-13AD RD / ZD — DIGIPOWER



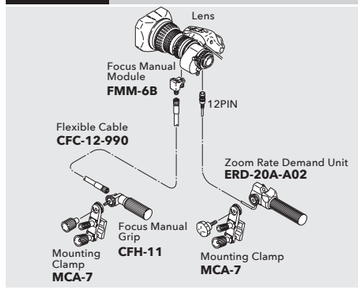
SS-13DB RD / ZD — DIGIPOWER



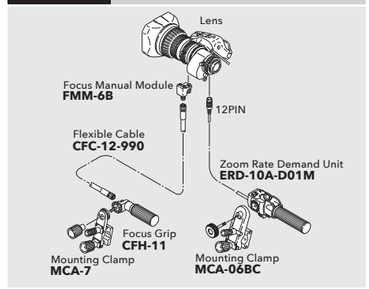
Some DIGIPOWER functions of EPD-4A-E12A may be limited.

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

MS-11 RM / ZM — STANDARD



MS-11DB RM / ZM — DIGIPOWER



Control Accessories Compatibility

(Premier Series, Select Series and Broadcast Lenses)

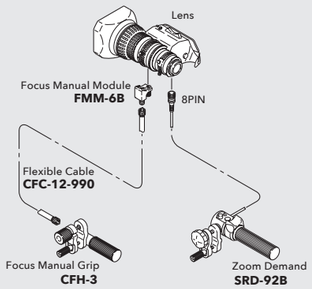
HA18 × 7.6 BE RM — Lens Drive Unit Type

			Description	Model Name	RM Standard	RD/ZD Standard	RM DIGIPOWER	RD/ZD DIGIPOWER
Focus	Manual		Focus Grip	CFH-11	●		●	
			Mounting Clamp	MCA-7	●		●	
			Flexible Cable	CFC-12-990	●		●	
			Focus Manual Module	FMM-6B	●		●	
				FMM-3C (for 42x series, 25x series)		●		●
	Servo		Focus Position Demand Unit	EPD-21A-A02		●		●
			Focus Servo Position Module	FSP-13G	●		●	
		Digital	Mounting Clamp	MCA-06BC				●
			Focus Position Demand Unit	EPD-4A-E12A				●
			Connection Cable	EBF-1 (for EPD-4A to Lens)				●
Zoom	Manual		Zoom Handle	CZH-14	●			
			Mounting Clamp	MCA-7	●			
			Flexible Cable	CFC-12-990	●			
			Zoom Manual Module	ZMM-6	●			
	Servo		Zoom Rate Demand Unit	ERD-20A-A02		●		
			Mounting Clamp	MCA-7		●		
		Digital	Zoom Rate Demand Unit	ERD-10A-D01M				●
			Mounting Clamp	MCA-06BC				●
Other			VTR Contorl Unit	VRS-20				
			Return Control Unit	EXT-30				
			Lens Supporter	ALH-117C-01A (for 42x series)				
			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)*1				
			Cable for Lens⇔PC	SA-206D-005 / SA-206A-005 *2				
			2x Extender Change Unit (Motor Drive)	ECU-2B				
			ECU Adapter(for UA22x)	ECU-1AD				
			ECU Adapter(for UA13x)	ECU-2AD				

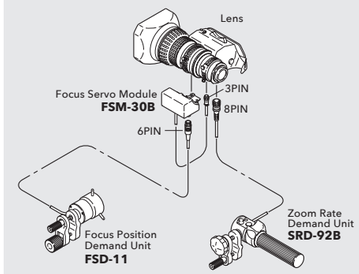
*1: Longer Cables are also available.
*2: SA-206A-005 is specifically designed for HA25x, HA42x

eXceed Series System Configuration

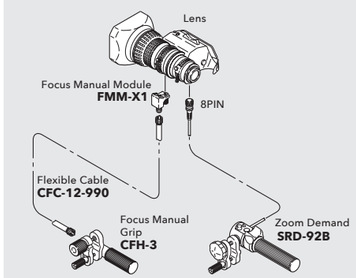
MS-01 RM



SS-01 RM



MS-X1 RAM



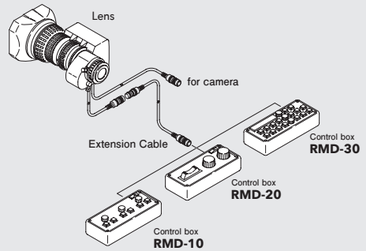
Control Accessories Compatibility (eXceed Series)

XA20s×8.5 B E RM — Lens Drive Unit Type → **RM / RAM**

		Description	Model Name	Standard
Focus	Manual	Focus Grip	CFH-3	●
		Flexible Cable	CFC-12-990	●
		Focus Manual Module	FMM-6B	●
			FMM-X1 (for XA16sx8BRAM)	●
	Servo	Focus Servo Module	FSM-30B	●
		Focus Position Demand Unit	FSD-11	●
Zoom	Manual	Zoom Handle	CZH-14	●
		Mounting Clamp	MCA-7	●
		Flexible Cable	CFC-12-990	●
		Zoom Manual Module	ZMM-6	●
	Servo	Zoom Rate Demand Unit	SRD-92B	●
Other		VTR Control Unit	VRS-2	
		Extention Cable For Focus Servo Demand Unit	ECA-1000(1m) -5000(5m) / -10000(10m)*	
		Extention Cable For Zoom Rate Demand Unit	ECC-1000(1m) -5000(5m) / -10000(10m)*	
		For 12PIN Lens Cable	ECE-R22	

* Longer Cables are also available.

HD REMOTE CONTROL LENSES



Control Accessories Compatibility

ZA17×7.6 BE MD → **MD**

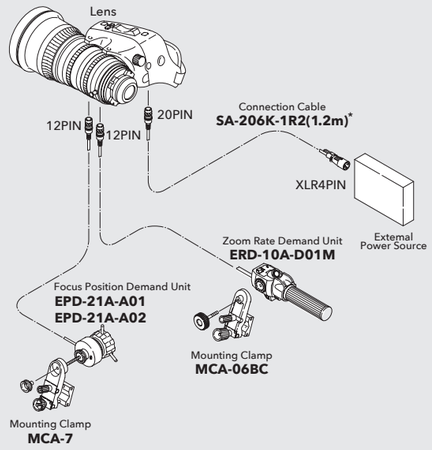
Description	Model Name	MD
Remote Controller	RMD-10	●
	RMD-20	●
	RMD-30	●
Extension Cable	ECM-005(5m) / -010(10m) / -020(20m) / -050(50m) / -100(100m)*	
Extender Change Unit	ECU-12A	

* Longer Cables are also available.

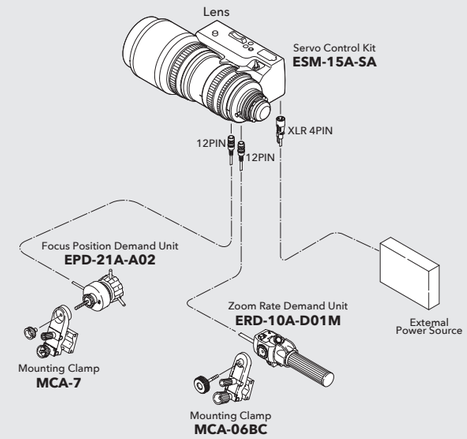
Cinema Lens System Configuration

Servo Control Kit

ZK2.5×14 / ZK4.7×19 / ZK3.5×85 / XK6x20



ZK12×25



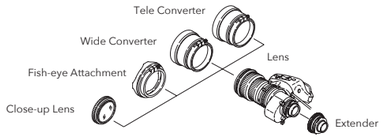
*Connection cable for external power source is necessary when the power source (over 10V, 1A) can't be supplied from a camera.

Control Accessories List

		Description	Model Name
Focus Demand	Digital	Digital Focus Position Demand	EPD-4A-E12A
		Mounting Clamp	MCA-06BC
	Standard	Standard Focus Position Demand	EPD-21A-A02
		Mounting Clamp	MCA-7
Zoom Demand	Digital	Digital Zoom Demand (Featured Iris Remote Control)	ERD-10A-D01M
		Mounting Clamp	MCA-06BC
	Standard	Focus Position Demand	ERD-20A-A02
		Mounting Clamp	MCA-7
Other		Connection Cable for EPD-4A-E12A	EBF-1
		Lens Hood for ZK4.7x19, ZK3.5x85	HS-304A-114
		Lens Hood for ZK2.5x14	HS-304B-114
		Digital Servo Module (Disigned for ZK12x25)	ESM-15A-SA
		Power Source Cable (Lens:20pin - XLR4pin), L=120cm	SA-206K-1R2
		Power Source Cable (Lens:20pin - D-Tap), L=120cm	SA-206X-1R2
		Power Source Cable (Lens:20pin - Camera:12pin), L=120cm	SA-206M-1R2
		Power Source Cable (Lens:20pin - Camera:12pin), L=40cm	SA-206M-R40
		Power Source Cable (Lens:20pin - Camera:12pin), L=25cm	SA-206M-R25

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.

Wide Attachment WAT

▶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.

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

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

2×Extender

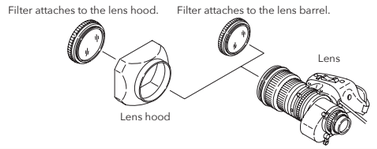
▶2× range extender mounts between master lens and camera and doubles the focal length of the master lens. ▶F-No. is doubled. ▶Includes back focus adjustment.

* AE20B-2 is specifically designed for SDTV lens.

Front Lens Diameter			⌀85		⌀95	⌀100
			XA16×8 XA20×8.5 XS20×6.4 XT17×4.5 XT20×4.7	HA18×7.6 HA21×7.8 ZA17×7.6 ZS17×5.5 XS17×5.5	HA16×6.3	HA19×7.4 HA23×7.6 ZA22×7.6
Model Name	**Magnification**	**Approx. Mass(kg)**				
TCV-H85	1.5×	1.00		●		
TCV-H95		1.00			●	
TCV-H100		1.00				●
WCV-H85	0.8×	1.05		●		
WCV-H95	0.85×	1.00			●	
WCV-H100	0.8×	1.05				●
WAT - H85	0.7×	0.36		●		
WAT - H100		0.53				●
F-ATH85	0.7×	0.36		●		
F-ATH100		0.63				●
Model Name	**Magnification**	**Approx. Mass(kg)**				
HCL-H8082BSC	0.8m	0.28		M82×0.75		
HCL-H8095SC		0.42				M95×1
HCL-80107NSC		0.50			●	
Model Name	**Object Distance**					
HAeE14-1	1.5×	0.30				
AE20B-2	1.5×	0.17				

Effects Filter

Attach to filter screw portion of the zoom lens.



UV Filter UV

▶UV filter absorbs ultraviolet rays, cuts haze. ▶No effect on exposure and color temperature.

ND Filter ND

▶ND (Neutral Density) filter reduces the light of all wavelengths that enter a lens. ▶Allow picture taking of bright scenes with wider lens apertures. ▶ND2 reduces light by 1 / 2, ND4 by 1 / 4, ND8 by 1 / 8. ▶No effect on color temperature.

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

	HA18×7.6 HA21×7.8 HTs18×4.2 ZA17×7.6 XS17×5.5 ZS17×5.5 XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7	HA19×7.4 HA23×7.6 ZA22×7.6	HA16×6.3	HA25×11.5 HA25×16.5	HA14×4.5 HA18×5.5 HA22×7.3 ZA12×4.5 XS13×3.3	HA42×9.7 HA42×13.5 A42×9.7 A42×13.5
Lens Barrel Filter Thread Size	M82×0.75	M95×1	—	M107×1	—	M127×0.75
Hood Filter Thread Size	—	M107×1	M107×1	M127×0.75	M127×0.75	—
Model Name						
EFL-82UV	●					
EFL-95UV		●				
EFL-107UV		●	●	●		
EFL-127UV				●	●	●
EFL-82 (N2,N4,N8)	●					
EFL-95 (N2,N4,N8)		●				
EFL-107 (N2,N4,N8)		●	●	●		
EFL-127 (N2,N4,N8)				●	●	●
EFL-82PL	●					
EFL-95PL		●				
EFL-107PLA		●	●	●		
EFL-127PL				●	●	●

Mount Adapters

Model Name	Camera	Lens	Note
ACM-8B	1/2" Sony Bayonet Mount	2/3" Bayonet Mount	Angle of view is approx. 1.3x shifted to tele side
ACM-19	1/3" Bayonet Mount	1/2" Sony Bayonet Mount	Angle of view is approx. 1.3x shifted to tele side
ACM-17	1/3" Bayonet Mount	2/3" Bayonet Mount	Angle of view is approx. 1.6x shifted to tele side
ACM-21	SONY PMW-EX3	2/3" Bayonet Mount	Angle of view is approx. 1.4x 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

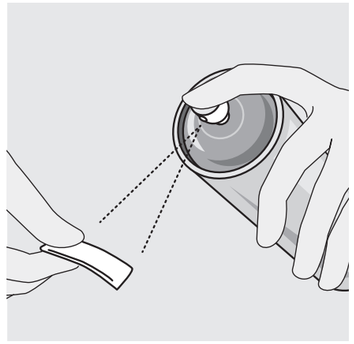
FUJINON Lens Maintenance

Maintaining high performance levels far into the future

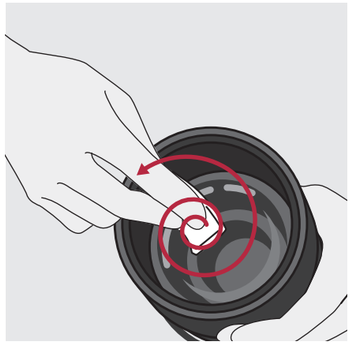
Lens Cleaning

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.