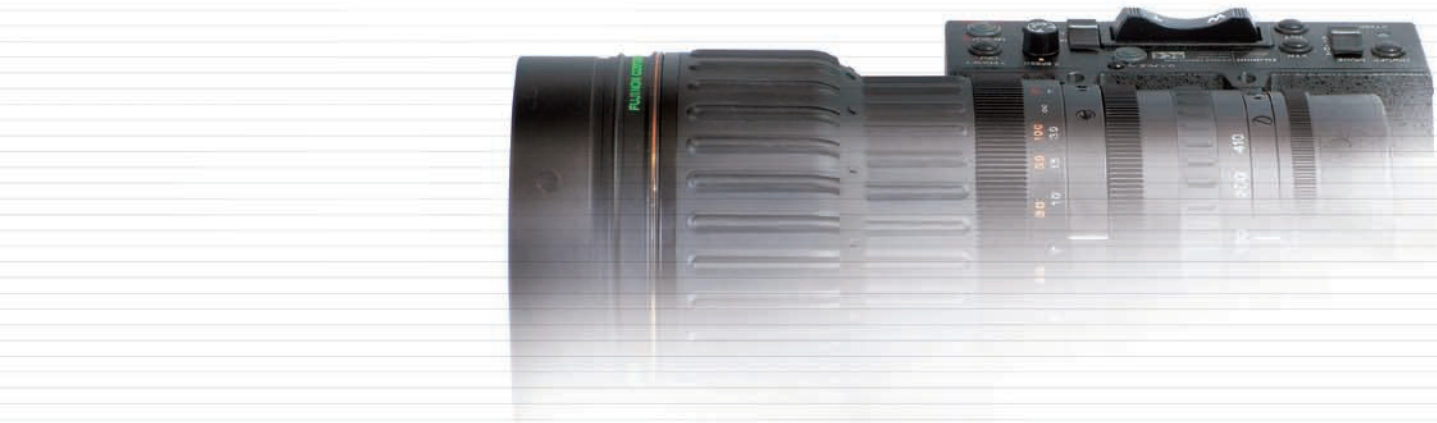
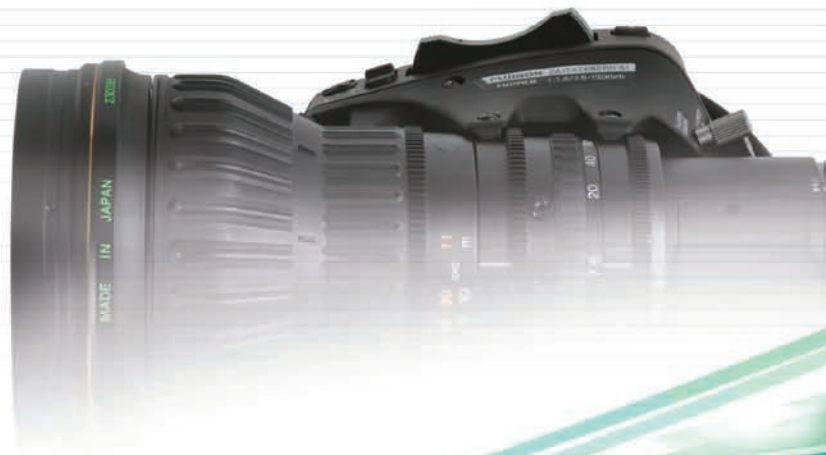


FUJIFILM



FUJINON

Focused on the Future



2011 FUJINON TELEVISION LENS CATALOG

HD
FUJINON

FUJINON

FUJINON Corporation became the FUJIFILM Optical Device Business Division as of July 1, 2010.

As part of this transition, we have also redesigned the "FUJINON" logo.

The new FUJINON brand logo will appear on all Optical Device Division products.

With the consolidation of FUJIFILM and FUJINON, we seek to accelerate the integration of FUJINON's long-accumulated optical technologies into FUJIFILM's imaging and production technologies to enhance FUJINON's TV lens value through consolidation synergies, and to further expand our leadership in the TV lens business.



OS-TECH

Anti-vibration device for telephoto lenses.



The Society of Operating Cameramen New Technology Award

Vformat

Ratio converter maintains proper field of view on switchable 16:9 4:3 format cameras.

Find

Computer controlled digital self diagnostics for Studio and Field lens for rapid trouble shooting and preventative maintenance of lens functions.



EXT

First built-in extender for ENG / EFP lens.

CaF2

Adoption of calcium fluoride for correcting chromatic aberration for TV lens.



AT

Patented glass molding process for aspherical lens elements revolutionized TV zoom lens technology.



Super EBC

Electron Beam Coating dramatically improved zoom lens performance.



IF

First inner focus system for TV broadcasting zoom lens.



Quickframe

For Your Best Shot

New zooming function for Quick Framing.

1996

1995

1994

1993

1992

1986

1978

1973

1969

1967

1962

Vgrip

Adoption of the variable angle servo grip for ENG / EFP lens reduces wrist fatigue.



FS

Microcomputer digitally controlled inner floating lens group corrects field curvature and coma aberration for improved corner resolution.



Started the research and development for TV lens.

PF BUILT-IN LENSES

TECHNOLOGY	P4/5
SPECIFICATION	P4/5
ACCESSORY	P4/5

STUDIO / FIELD LENSES

TECHNOLOGY	P6/7
SPECIFICATION	P8/9
ACCESSORY	P10/11

3D LENSES

TECHNOLOGY	P12/13
SPECIFICATION	P12/13
3D LENS SYSTEM CHART	P12/13

ENG / EFP LENSES

TECHNOLOGY	P14/15
SPECIFICATION	P16/21
ACCESSORY	P22/23

VIDEOCONFERENCING LENSES

SPECIFICATION	P24/25
ACCESSORY	P24/25

OPTICAL ACCESSORIES	P26/P29
REMOTE CONTROLLED PAN-TILT SYSTEM	P30
FUJIFILM TV LENS APPROACHES	P31



PL
MOUNT

PL Mount / Released
35mm PL mount zoom lens
used for both Film and
Digital cinema cameras.

PF

The latest focus
assist system to
support focus
operation.

2009

2008

2006

2005

2003

2002

2001



2009
Recipient of the
Emmy Award

Outstanding Achievement
In Engineering
Development Fujinon
Precision Focus
Assistant System.
(Fujinon and NHK)



2005
Recipient of the
Emmy Award

Recipient of the Emmy Award
For Lens Technology Developments
For Solid State Imagers For Camera In
High Definition.

HD CINE

HD CINE / First Cine Style Lens
for Digital cinema market



3D

Released first 3D lens

DIGI
POWER

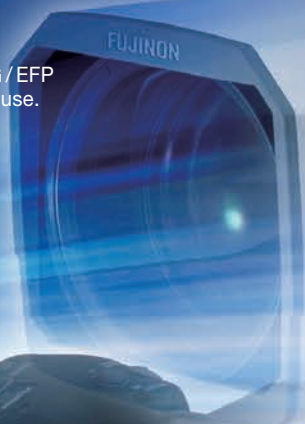
Utilization of Digital Technology provides control of zoom lens.

A2

Improving on the optical performance
mechanism and aspherical lenses.

AF

First auto-focus ENG/EFP
lens for professional use.



PF BUILT-IN LENSES

PF
Precision Focus

PRECISION FOCUS ASSISTANCE SYSTEM

FUJIFILM is the first in the world to incorporate a precision focus assistance system. in broadcast TV lenses. The PF System represents FUJIFILM's thorough determination to enhance the ease and accuracy of the focusing operation for camera operators as no professional assisting tool has ever done before.



Recipient of the Emmy Award

Outstanding Achievement In Engineering
Development Fujinon Precision Focus Assistant
System. (Fujinon and NHK)

2/3"

MODEL NAME	HA13×4.5BRD	HA22×7.3BRD	HA27×6.5BESM	XA88×8.8BESM	XA101×8.9BESM
Focal length (1×) / (2×)	4.5–59mm / –	7.3–161mm / –	6.5–180mm / 13–360mm	8.8–777mm / 17.6–1554mm	8.9–900mm / 17.8–1800mm
Zoom ratio	13 ×	22 ×	27 ×	88 ×	101 ×
Extender	–	–	2 ×	2 ×	2 ×
Maximum relative aperture (F.No.) (1×)	1 : 1.8(4.5–41mm) 1 : 2.6(59mm)	1 : 1.9(7.3–113mm) 1 : 2.7(161mm)	1 : 1.5(6.5–123mm) 1 : 2.2(180mm)	1 : 1.7(8.8–348mm) 1 : 3.8(777mm)	1 : 1.7(8.9–291mm) 1 : 4.7(900mm)
Minimum object distance (M.O.D.) from front lens	0.3m	0.85m	0.6m	2.9m	2.9m
Object dimensions at M.O.D. (1×)	4.5mm 757 × 425mm 59mm 55 × 31mm	7.3mm 1222 × 687mm 161mm 55 × 31mm	6.5mm 1053 × 592mm 180mm 39 × 22mm 13mm 527 × 296mm 360mm 20 × 11mm	8.8mm 2971 × 1670mm 777mm 34 × 19mm 17.6mm 1485 × 835mm 1554mm 17 × 9mm	8.9mm 2865 × 1610mm 900mm 28 × 16mm 17.8mm 1433 × 805mm 1800mm 14 × 8mm
Angular field of view (1×)	4.5mm 93°38' × 61°50' 59mm 9°18' × 5°14'	7.3mm 66°36' × 40°32' 161mm 3°25' × 1°55'	6.5mm 72°50' × 45°02' 180mm 3°03' × 1°43' 13mm 45°30' × 23°25' 360mm 1°32' × 0°51'	8.8mm 57°10' × 34°03' 777mm 0°42' × 0°24' 17.6mm 30°29' × 17°25' 1554mm 0°21' × 0°12'	8.9mm 56°38' × 33°42' 900mm 0°37' × 0°21' 17.8mm 30°09' × 17°13' 1800mm 0°18' × 0°10'
Size H×W×L (Size φ×Length)	φ95×256.1mm	φ110×300.2mm	233×231×590mm	265×270×575mm	233×231×590mm
Mass	2.7kg	3.9kg	22.1kg	24kg	25kg
Available model	HA13×4.5BRD-P11	HA22×7.3BRD-P12	HA27×6.5BESM-FK	XA88×8.8BESM-TK	XA101×8.9BESM-TK
Appearance					

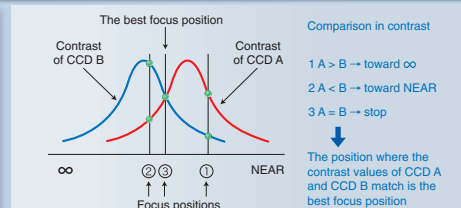
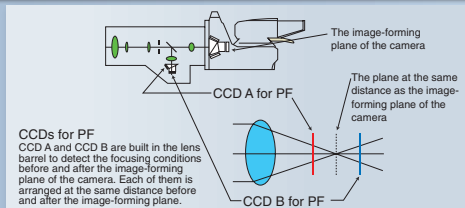


※ 1: Focus ring can be operated manually when the clutch is set in off position, and can be operated by servo only in on position.

※ 2: Focus operation can be changed manual or servo by mechanical clutch on the grip.

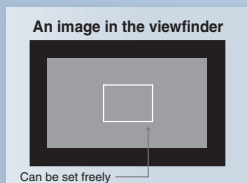
Contrast Focusing Method

The Precision Focus System adopts a contrast method that utilizes differences in optical path length. It can instantly bring shooting objects into perfect focus without searching for focus and can follow moving objects smoothly in focus.



Focus Area Setting

On mounting a PF lens on a camera for PF function, a focus area is shown on the viewfinder. The size and the position of the focus area can be changed at a camera operator's option. This function allows for more effective shooting operation in a production site where versatile imaging is required.



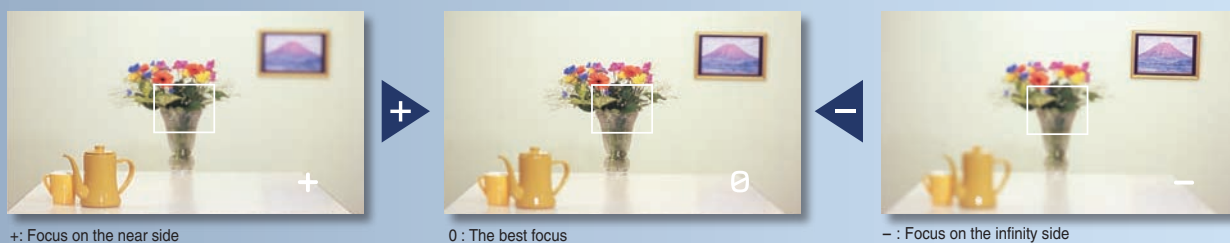
Focus Mode Selection

You can select the momentary mode for PF function operational only when pressing the button, or the continuous mode for continuous PF function. You can enjoy the best focusing in a selected mode according to the shooting situation, whether for a still image or for moving objects.



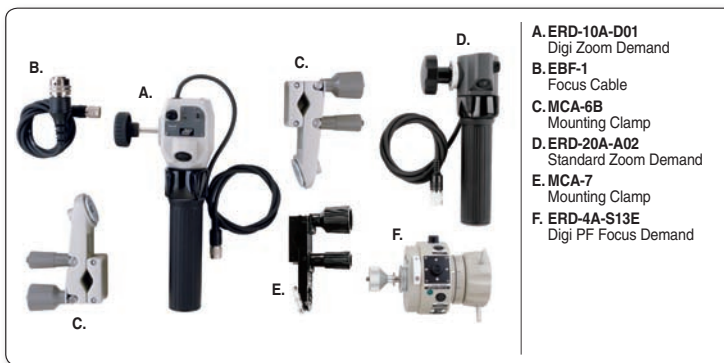
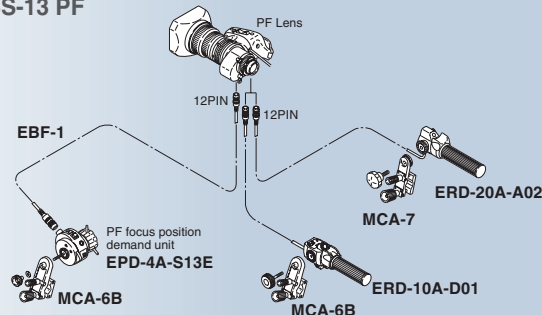
Reducing Camera Operator's Burden

The PF assistance system constantly provides the best precision focusing even when it is hard to see whether the viewfinder image is in perfect focus. You can concentrate on zooming operation, knowing that your subject will be in perfect focus.

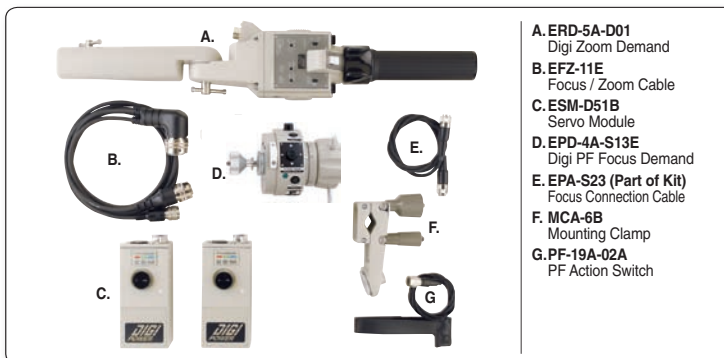
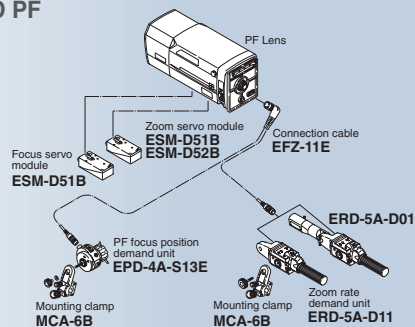


CONTROL ACCESSORIES

SS-13 PF



SS-21D PF



STUDIO / FIELD LENSES

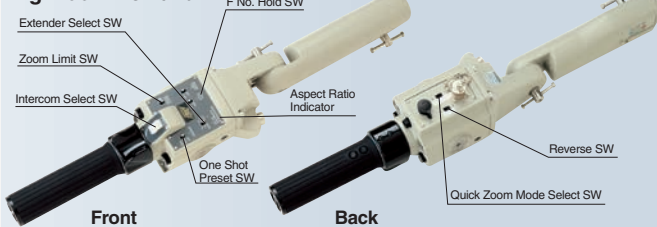
FUJINON's Studio / Field lenses are essential for applications requiring the ultimate in control and optical quality. Our latest box lenses have advanced unique technologies, and they compliment various production styles. All FUJINON box zoom lenses can be utilized for large sporting events, entertainment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



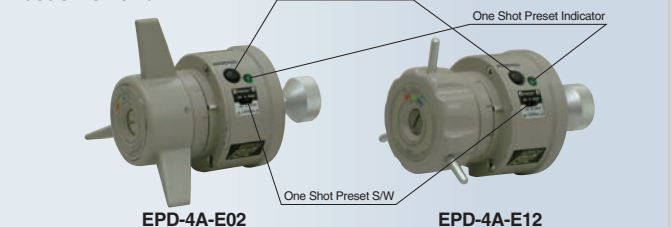
DIGIPower DIGITAL SERVO TECHNOLOGY

Digital technology has been incorporated for a high degree of reliability and accuracy of lens control. FUJIFILM's DIGIPOWER provides vastly improves accuracy and repeatability over previous designs and it enables custom control parameters to be memorized for individual camera operator's preferences.

Digi Zoom Demand



Focus Demand



Features

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.



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.

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.

Zoom Mode Select

A zoom mode switch provides the option to change the zoom response from "normal" to more sensitive on the wide or telephoto side. With the 3-zoom mode the user can select the most suitable fine touch.

Zoom Limit

The zoom limit function can be used in servo operational mode. By using this function the zoom movement toward both the wide and telephoto side can be limited.

Serial Digital Remote Control

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

Maximum Speed Adjustment

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

Virtual Connector (Optional)

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.



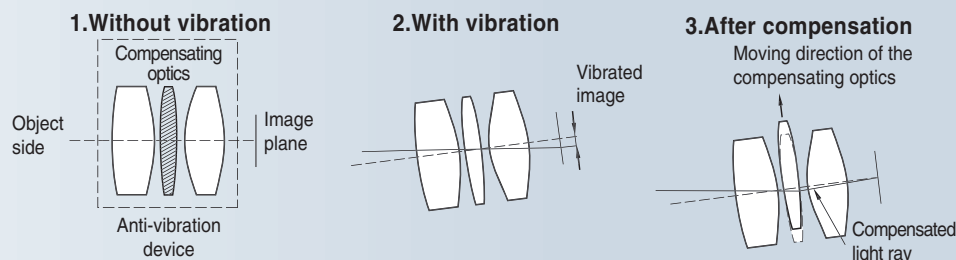
OS-TECH

With high magnification zoom lenses, the possibility of image vibration is a cause of concern at long focal lengths. FUJIFILM developed a unique image stabilization technology called "OS-TECH". This unique system optically compensates for image vibration resulting in stable pictures even at extreme focal lengths.

Features

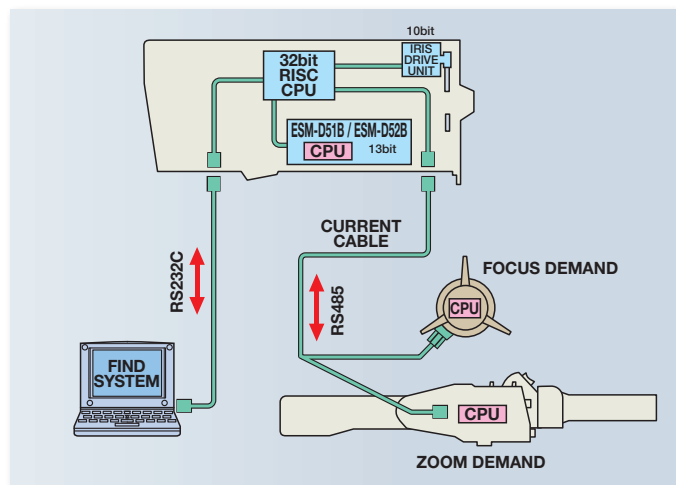
OS-TECH features "The Optical Shift System" where a shift correction signal is generated to optically compensate for vibration according to the amount of the movement detected. This system responds quickly and reduces the phenomenon to a minimum allowing for a natural looking image. The conveniently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

THE PRINCIPLE OF ANTI-VIBRATION DEVICE



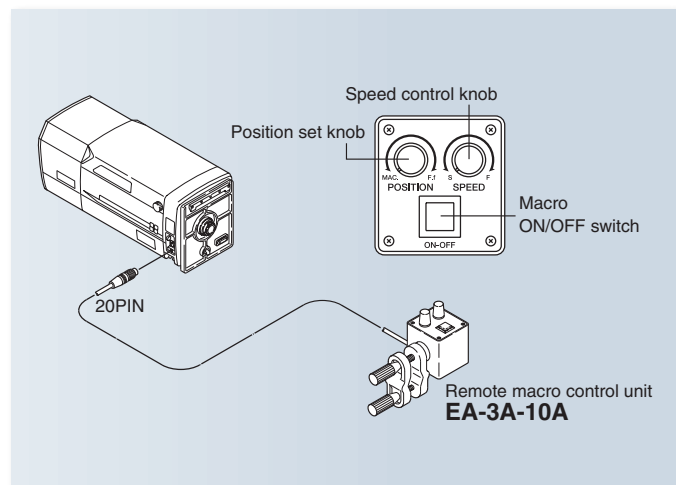
FIND System

"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.



Advanced Back Focus

This system allows macro shooting at 0.3m (HA27x6.5: 0.05m) from the object. Focus fades are also possible at the wide end with the use of a simple remote control unit. The focus fader capability enhances the creative possibilities of these lenses while adding a unique look to the production.



Automatic Compensation Of Focus Breathing

When focusing is operated, the angular field of view normally changes, which creates an effect similar to zooming. This is called focus breathing. This compensation mechanism enables the angular field of view to remain constant by synchronizing the zoom movement to the focus movement, thus reducing image size change when focusing.

Multiple Moving Zoom Group

This system enables the reduction of coma aberration and field curvature caused by zooming to an absolute minimum thus creating sharp high definition images. This technology has also reduced the overall lens size and weight for easier transport and installation in the field.

Dust Proof And Anti-Fogging Design




Studio and field lenses incorporate a fixed front element, which reduces dust contamination and serves as protection for the front focus group. A concealed compartment, which contains a drying agent, serves to reduce fogging of the internal lens components due to humidity.




Floating System

It minimizes variation of aberration due to object distance, and improves the balance between spherical aberration and peripheral image field curvature.

STUDIO/FIELD LENSES

2/3"

MODEL NAME	XA22×7BES	XA25×6.7BESM	HA27×6.5BESM
Focal length (1×) / (2×)	7–154mm / 14–308mm	6.7–168mm / 13.4–336mm	6.5–180mm / 13–360mm
Zoom ratio	22 ×	25 ×	27 ×
Extender	2 ×	2 ×	2 ×
Maximum relative aperture (F-No.)	1 : 1.8(7–116mm) 1 : 2.4(154mm)	1 : 1.5(6.7–123mm) 1 : 2.1(168mm)	1 : 1.5(6.5–123mm) 1 : 2.2(180mm)
Minimum object distance (M.O.D.) from front lens	0.8m	0.6m	0.6m
Object dimensions at M.O.D. (1×)	7mm 1099 × 824mm	6.7mm 937 × 703mm	6.5mm 966 × 725mm
4 : 3 Aspect ratio	154mm 50 × 37mm	168mm 37 × 28mm	180mm 36 × 27mm
(2×)	14mm 550 × 412mm	13.4mm 469 × 352mm	13mm 483 × 362mm
	308mm 25 × 19mm	336mm 19 × 14mm	360mm 18 × 13mm
16 : 9 Aspect ratio (1×)	7mm 1197 × 673mm	6.7mm 1022 × 574mm	6.5mm 1053 × 592mm
	154mm 54 × 31mm	168mm 41 × 23mm	180mm 39 × 22mm
(2×)	14mm 599 × 337mm	13.4mm 511 × 287mm	13mm 527 × 296mm
	308mm 27 × 15mm	336mm 19 × 14mm	360mm 20 × 11mm
Angular field of view (1×)	7mm 64°18' × 50°29'	6.7mm 66°35' × 52°27'	6.5mm 68°11' × 53°50'
4 : 3 Aspect ratio	154mm 3°16' × 2°27'	168mm 3°00' × 2°15'	180mm 2°48' × 2°06'
(2×)	14mm 34°54' × 26°32'	13.4mm 36°21' × 1°30'	13mm 37°24' × 28°29'
	308mm 1°38' × 1°14'	336mm 1°30' × 1°08'	360mm 1°24' × 1°03'
16 : 9 Aspect ratio (1×)	7mm 68°49' × 42°7'	6.7mm 71°11' × 43°49'	6.5mm 72°50' × 45°02'
	154mm 3°34' × 2°00'	168mm 3°16' × 1°50'	180mm 3°03' × 1°43'
(2×)	14mm 37°49' × 21°48'	13.4mm 39°23' × 22°45'	13mm 40°30' × 23°25'
	308mm 1°47' × 1°00'	336mm 1°38' × 0°55'	360mm 1°32' × 0°51'
Size H×W×L	179×187×340mm	236×228×537mm	233×231×539mm
Mass	6.6kg	20.5kg	21kg
Features	Find AC	Find AC D&A FS	Find AC D&A \overline{AB} focus
Option			VC Vformat
Available model	XA22×7BES-D	XA25×6.7BESM-D	HA27×6.5BESM-F / -FR
Appearance			

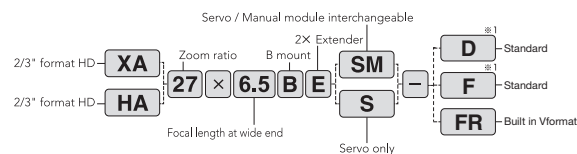
MODEL NAME	XA50×9.5BESM	XA66×9.3BESM	XA72×9.3BESM
Focal length (1×) / (2×)	9.5–475mm / 19–950mm	9.3–615mm / 18.6–1230mm	9.3–675mm / 18.6–1350mm
Zoom ratio	50 ×	66 ×	72 ×
Extender	2 ×	2 ×	2 ×
Maximum relative aperture (F-No.)	1 : 1.7(9.5–311mm) 1 : 2.6(475mm)	1 : 1.7(9.3–327mm) 1 : 3.2(615mm)	1 : 1.7(9.3–328mm) 1 : 3.5(675mm)
Minimum object distance (M.O.D.) from front lens	3.0m	2.7m	2.7m
Object dimensions at M.O.D. (1×)	9.5mm 2573 × 1930mm	9.3mm 2346 × 1760mm	9.3mm 2347 × 1760mm
4 : 3 Aspect ratio	475mm 51 × 39mm	615mm 36 × 27mm	675mm 33 × 24mm
(2×)	19mm 1287 × 965mm	18.6mm 1173 × 880mm	18.6mm 1173 × 880mm
	950mm 26 × 19mm	1230mm 18 × 13mm	1350mm 16 × 12mm
16 : 9 Aspect ratio (1×)	9.5mm 2800 × 1575mm	9.3mm 2558 × 1438mm	9.3mm 2558 × 1438mm
	475mm 56 × 31mm	615mm 39 × 22mm	675mm 36 × 20mm
(2×)	19mm 1400 × 787mm	18.6mm 1279 × 719mm	18.6mm 1279 × 719mm
	950mm 28 × 16mm	1230mm 19 × 11mm	1350mm 18 × 10mm
Angular field of view (1×)	9.5mm 49°42' × 38°19'	9.3mm 50°38' × 39°04'	9.3mm 50°38' × 39°04'
4 : 3 Aspect ratio	475mm 1°04' × 0°48'	615mm 0°49' × 0°37'	675mm 0°45' × 0°34'
(2×)	19mm 26°05' × 19°42'	18.6mm 26°37' × 20°07'	18.6mm 26°37' × 20°07'
	950mm 0°32' × 0°24'	1230mm 0°25' × 0°18'	1350mm 0°22' × 0°17'
16 : 9 Aspect ratio (1×)	9.5mm 53°34' × 31°41'	9.3mm 54°33' × 32°19'	9.3mm 54°33' × 32°19'
	475mm 1°09' × 0°39'	615mm 0°54' × 0°30'	675mm 0°49' × 0°27'
(2×)	19mm 28°20' × 16°09'	18.6mm 28°55' × 16°29'	18.6mm 28°55' × 16°29'
	950mm 0°35' × 0°20'	1230mm 0°27' × 0°15'	1350mm 0°24' × 0°14'
Size H×W×L	343×272×838mm	265×270×634mm	265×270×634mm
Mass	20.5kg	21.5kg	21.5kg
Features	D&A Built-in supporter	Find D&A \overline{AB} focus	Find D&A \overline{AB} focus
Option		VC Vformat	VC Vformat
Available model	XA50×9.5BESM-5L / -D	XA66×9.3BESM-E / -ER	XA72×9.3BESM-E / -ER
Appearance			

2/3"

MODEL NAME	XA76×9.3BESM	XA88×8.8BESM	XA88×12.5BESM
Focal length (1x) / (2x)	9.3–710mm / 18.6–1420mm	8.8–777mm / 17.6–1554mm	12.5–1100mm / 25–2200mm
Zoom ratio	76 ×	88 ×	88 ×
Extender	2 ×	2 ×	2 ×
Maximum relative aperture (F-No.)	1 : 1.7(9.3–334mm) 1 : 3.7(710mm)	1 : 1.7(8.8–348mm) 1 : 3.8(777mm)	1 : 2.3(12.5–477mm) 1 : 5.3(1100mm)
Minimum object distance (M.O.D.) from front lens	2.7m	2.9m	2.9m(12.5–200mm), 3.5m(201–1100mm)
Object dimensions at M.O.D. (1x)	9.3mm 2347 × 1760mm 710mm 31 × 23mm	8.8mm 2726 × 2044mm 777mm 31 × 23mm	12.5mm 1919 × 1439mm 1100mm 22 × 16mm
4 : 3 Aspect ratio (2x)	18.6mm 1173 × 880mm 1420mm 15 × 12mm	17.6mm 1363 × 1022mm 1554mm 15 × 12mm	25mm 959 × 720mm 1800mm 11 × 8mm
16 : 9 Aspect ratio (1x)	9.3mm 2558 × 1438mm 710mm 34 × 19mm	8.8mm 2971 × 1670mm 777mm 34 × 19mm	12.5mm 2091 × 1175mm 1100mm 24 × 13mm
(2x)	18.6mm 1279 × 719mm 1420mm 17 × 9mm	17.6mm 1485 × 835mm 1554mm 17 × 9mm	25mm 1046 × 588mm 360mm 12 × 7mm
Angular field of view (1x)	9.3mm 50°38' × 39°04' 710mm 0°43' × 0°32'	8.8mm 53°08' × 41°07' 777mm 0°39' × 0°29'	12.5mm 38°47' × 29°35' 1100mm 0°28' × 0°21'
4 : 3 Aspect ratio (2x)	18.6mm 26°37' × 20°07' 1420mm 0°21' × 0°16'	17.6mm 28°04' × 21°14' 1554mm 0°19' × 0°15'	25mm 19°58' × 15°02' 1800mm 0°14' × 0°10'
16 : 9 Aspect ratio (1x)	9.3mm 54°33' × 32°19' 710mm 0°46' × 0°26'	8.8mm 57°10' × 34°03' 777mm 0°42' × 0°24'	12.5mm 41°58' × 24°20' 1100mm 0°30' × 0°17'
(2x)	18.6mm 28°55' × 16°29' 1420mm 0°23' × 0°13'	17.6mm 30°29' × 17°25' 1554mm 0°21' × 0°12'	25mm 21°43' × 12°18' 2200mm 0°15' × 0°08'
Size HxWxL	265×270×634mm	265×270×575mm	265×270×593mm
Mass	22.6kg	24kg	24.5kg
Features	Find D&A OS-TECH	Find D&A	Find D&A
Option	Vformat	Vformat OS-TECH	Vformat OS-TECH
Available model	XA76×9.3BESM-T / -TR	XA88×8.8BESM-T / -TR	XA88×12.5BESM-T / -TR
Appearance			

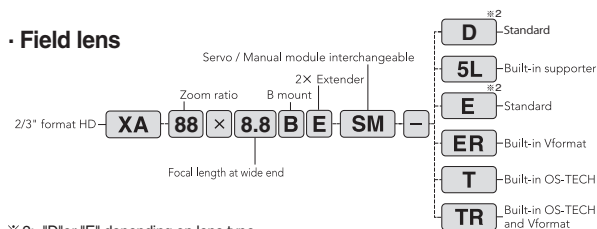
MODEL NAME	XA101×8.9BESM
Focal length (1x) / (2x)	8.9–900mm / 17.8–1800mm
Zoom ratio	101 ×
Extender	2 ×
Maximum relative aperture (F-No.)	1 : 1.7(8.9–291mm) 1 : 4.7(900mm)
Minimum object distance (M.O.D.) from front lens	2.9m
Object dimensions at M.O.D. (1x)	8.9mm 2629 × 1972mm 900mm 26 × 20mm
4 : 3 Aspect ratio (2x)	17.8mm 1315 × 986mm 1800mm 13 × 10mm
16 : 9 Aspect ratio (1x)	8.9mm 2865 × 1610mm 900mm 28 × 16mm
(2x)	17.8mm 1433 × 805mm 1800mm 14 × 8mm
Angular field of view (1x)	8.9mm 52°37' × 40°41' 900mm 0°34' × 0°25'
4 : 3 Aspect ratio (2x)	17.8mm 27°46' × 21°00' 1800mm 0°17' × 0°13'
16 : 9 Aspect ratio (1x)	8.9mm 56°38' × 33°42' 900mm 0°37' × 0°21'
(2x)	17.8mm 30°09' × 17°13' 1800mm 0°18' × 0°10'
Size HxWxL	265×270×660mm
Mass	23.8kg
Features	Find D&A OS-TECH
Option	Vformat
Available model	XA101×8.9BESM-T / -TR
Appearance	

• Studio lens



※ 1: "D" or "F" depending on lens type.

• Field lens



※ 2: "D" or "E" depending on lens type.

Advanced Back Focus

Dust proof & anti-fogging

Optical Stabilized Technology

Automatic compensation of focus breathing

Find System

Variable Format

Floating system

Virtual Connector

CONTROL ACCESSORIES

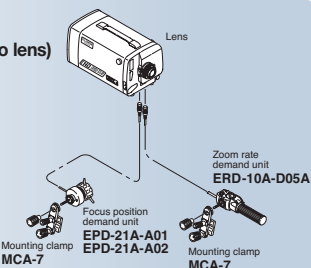
STUDIO / FIELD LENSES

Provide Digital Control and Functions of DIGIPOWER Series.

XA22x7BES

(Compact studio lens)

Servo focus
Servo zoom

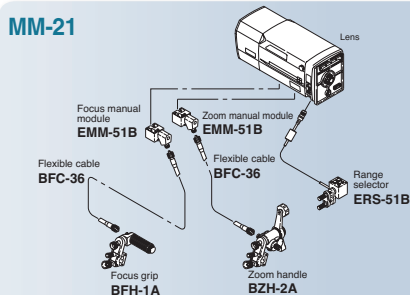


※ The lens supporter (ALH-117C-02A) is required.

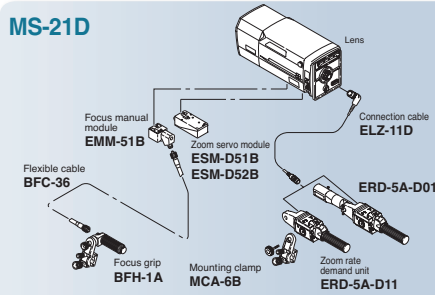


- A. MCA-7
Mounting Clamp
- B. EPD-21A-02A
Focus Demand
- C. ERD-10A-D05A
Digi Zoom Demand
- D. ALH-117C-02A
Lens Supporter for XA22x7

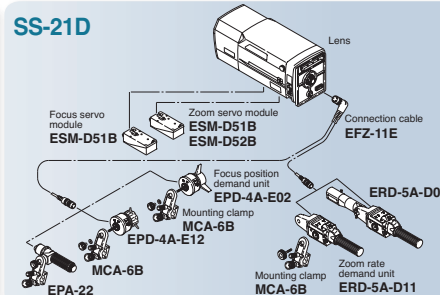
MM-21



MS-21D

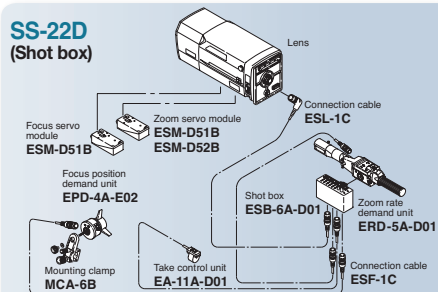


SS-21D



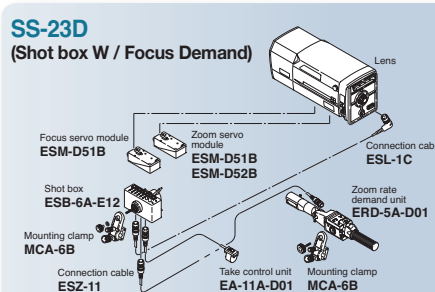
SS-22D

(Shot box)



SS-23D

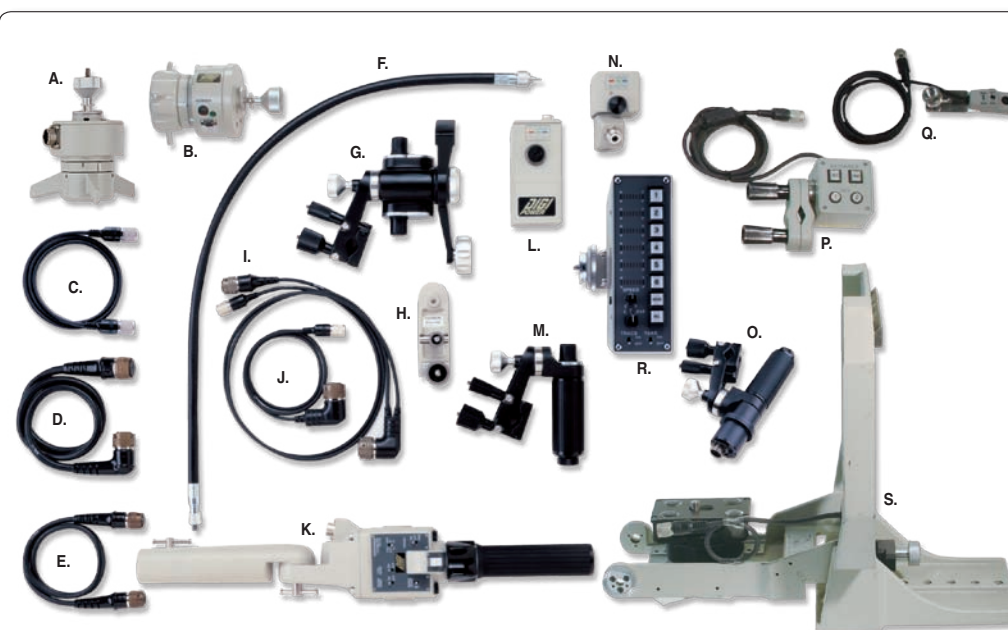
(Shot box W / Focus Demand)



MM: Manual focus / Manual zoom
MS: Manual focus / Servo zoom
SS: Servo focus / Servo zoom

ESM-D51B Normal speed 1sec.
ESM-D52B High speed 0.6sec. (only for zoom)

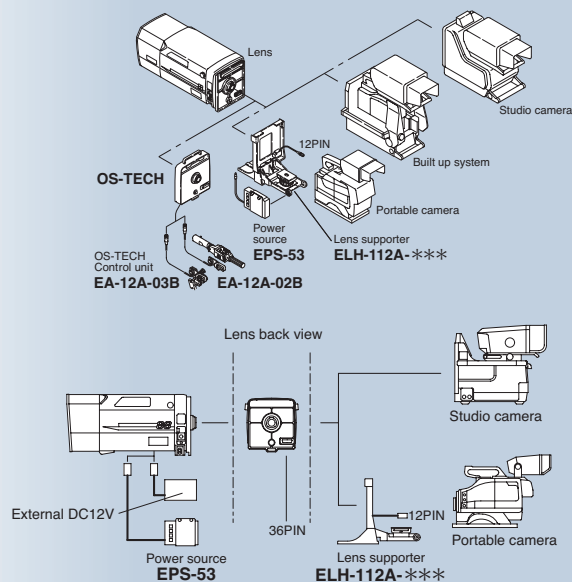
Can be used on Non-DIGIPOWER lenses for basic functions.



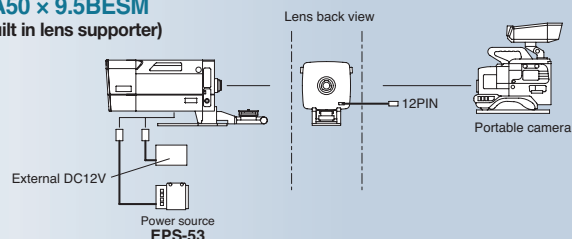
- A. EPD-4A-E02
Digi Focus Demand
- B. EPD-4A-E12
Digi Focus Demand
- C. ESZ-12
Zoom Demand Cable
- D. ESL-1C
Shot Box Cable
- E. ESF-1C
Focus Shot Box Cable
- F. BFC-36
Flex Cable
- G. BZH-2A
Zoom Handle
- H. MCA-6B
Mounting Clamp
- I. EFZ-11E
Focus / Zoom Cable
- J. ELZ-11D
Zoom Demand Cable
- K. ERD-5A-D01
Digi Zoom Rate Demand
- L. ESM-D51B / D52B
Servo Module
- M. BFH-1A
Focus Grip
- N. EMM-51B
Manual Module
- O. EPA-22A
Manual Focus Position Demand
- P. ERS-51B
Range Selector
- Q. EA-12A-02A
OS-TECH Control Unit
- R. ESB-6A-E12
Shot Box
- S. ELH-112A-※※
Lens Supporter

MOUNT COMPATIBILITY

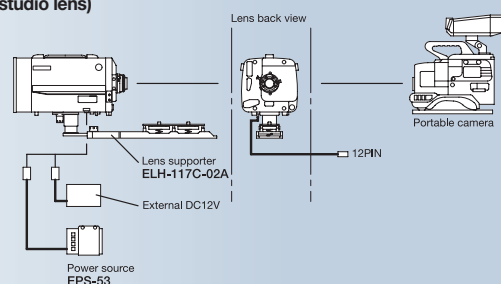
STUDIO / FIELD LENS SYSTEM



XA50 × 9.5BESM (Built in lens supporter)



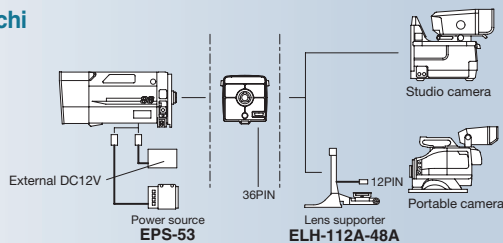
XA22 × 7BES (Compact studio lens)



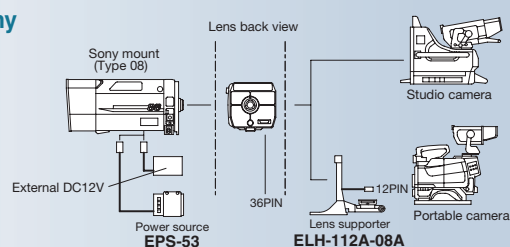
EPS-53 can not be used in EU and Oceania region. For more information, please consult with your nearest Fujinon sales office.

LENS CAMERA SYSTEM

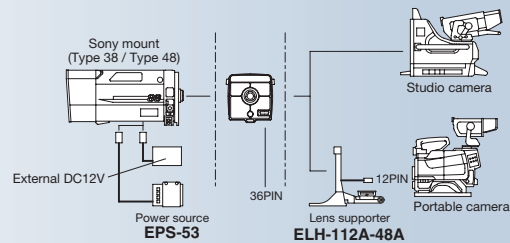
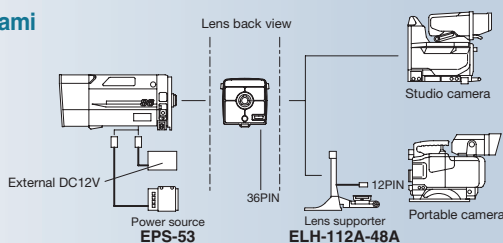
Hitachi



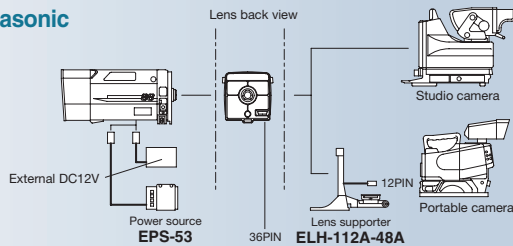
Sony



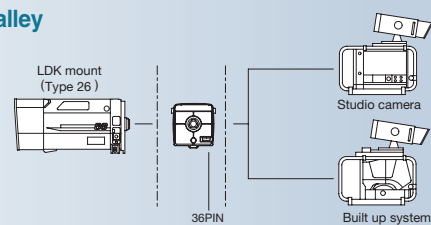
Ikegami



Panasonic



Grass Valley



3D LENSES

3D SYNCHRONOUS SYSTEM

In order to create 3D images, the left and right lens must be at precisely the same focal length and focus position. For 3D applications, it is imperative that gear backlash must be minimized to the greatest extent possible. This requires very high optical quality and mechanical stability. FUJINON 3D lenses with our Precision Servo Controllers meet these requirements by incorporating the highest quality HD optics, close tolerance mechanical design and precise zoom and focus control servos.



2/3"

MODEL NAME	XA4×7.5BMD-D3L / D3R		A8×12BMD-DNL / DNR		HA14×4.5BEZD-T5DD	
Focal length (1×) / (2×)	7.5–30mm / –		12–96mm / –		4.5–63mm / 9.9–139mm	
Zoom ratio	4 ×		8 ×		14 ×	
Extender	–		–		2.2 ×	
Maximum relative aperture (F-No.) (1×)	1: 2.8 (7.5–30mm)		1: 2.8 (12–96mm)		1:1.8 (4.5–41mm) 1:2.8 (63mm)	
Minimum object distance (M.O.D.) from front lens	0.45m		1.0m		0.3m	
Object dimensions at M.O.D. (1×) 16 : 9 Aspect ratio	7.5mm	629 × 354mm	12mm	761 × 428mm	4.5mm	743 × 418mm
	30mm	156 × 88mm	96mm	95 × 84mm	63mm	51 × 29mm
(2×)	–	–	–	–	9.9mm	329 × 185mm
	–	–	–	–	138mm	24 × 13mm
Angular field of view (1×) 16 : 9 Aspect ratio	7.5mm	65°11' × 39°32'	12mm	43°34' × 25°19'	4.5mm	93°38' × 61°50'
	30mm	18°32' × 10°16'	30mm	5°44' × 3°13'	63mm	8°42' × 4°54'
(2×)	–	–	–	–	9.9mm	51°41' × 30°27'
	–	–	–	–	138mm	3°57' × 2°13'
Size φ×Length	φ54 × 119mm		φ54 × 119mm		φ95 × 238.5mm	
Filter thread	M52 × 0.75		M52 × 0.75		M127 × 0.75*1	
Mass	0.8kg		0.8kg		2.2kg	
Option	–		–		–	
System chart	3D-SS-MD06 / 3D-SS-MD08		3D-SS-MD06 / 3D-SS-MD08		3D-SS-ZD06 / 3D-SS-ZD08	
Appearance						

*1 : Filter attaches to the lens hood.

SYNCHRONOUS CONTROL JOINT BOX

FUJIFILM's 3D lens joint box synchronizes two lenses so that the zooming and focusing move in precise union.

HJ-303A-06A

- Built in standard Focus Demand



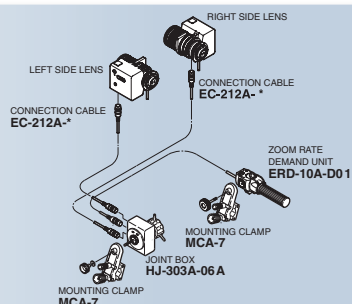
HJ-303A-08A

- Operates with all current focus and zoom demands (Both DIGIPOWER and standard features can be used)
- Built in encoder connector and serial Remote Control
- Operates with all current standard extension cables (between the Focus / Zoom demands and Joint Box)

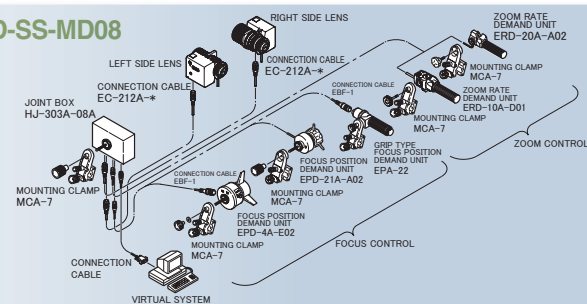


3D LENS SYSTEM CHART

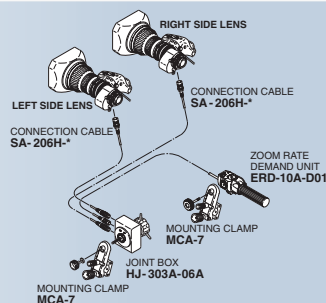
3D-SS-MD06



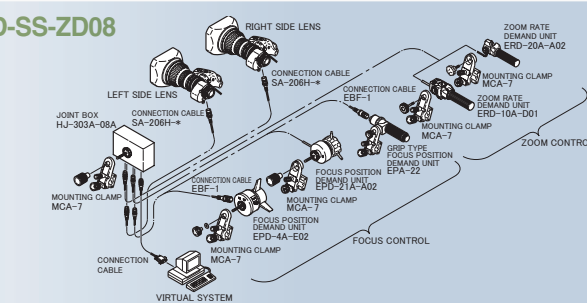
3D-SS-MD08



3D-SS-ZD06



3D-SS-ZD08



MODEL NAME	HA16×6.3BEZD-T5DD	HA18×7.6BEZD-T5DD	HA23×7.6BEZD-T5DD
Focal length (1×) / (2×)	6.3–101mm / 12.6–202mm	7.6–137mm / 15.2–274mm	7.6–175mm / 15.2–350mm
Zoom ratio	16 ×	18 ×	23 ×
Extender	2 ×	2 ×	2 ×
Maximum relative aperture (F-No.) (1×)	1:1.8 (6.3–63mm) 1:2.9 (101mm)	1:1.8 (7.6–103mm) 1:2.4 (137mm)	1:1.8 (7.8–122mm) 1:2.65 (175mm)
Minimum object distance (M.O.D.) from front lens	0.4m	0.6m	0.8m
Object dimensions at M.O.D. (1×)	6.3mm 712 × 400mm	7.6mm 696 × 392mm	7.6mm 915 × 514mm
16 : 9 Aspect ratio	101mm 45 × 25mm	137mm 41 × 23mm	175mm 41 × 23mm
(2×)	12.6mm 356 × 200mm	15.2mm 362 × 204mm	15.2mm 473 × 266mm
	202mm 22 × 13mm	274mm 21 × 12mm	350mm 21 × 12mm
Angular field of view (1×)	6.3mm 74°33' × 46°19'	7.6mm 64°30' × 39°03'	7.6mm 64°30' × 39°03'
16 : 9 Aspect ratio	101mm 5°26' × 3°03'	137mm 4°01' × 2°15'	175mm 3°08' × 1°46'
(2×)	12.6mm 41°40' × 24°90'	15.2mm 35°01' × 20°07'	15.2mm 35°01' × 20°07'
	202mm 2°43' × 1°32'	274mm 2°00' × 1°08'	350mm 1°34' × 0°53'
Size φ×Length	φ95 × 238.5mm	φ95 × 238.5mm	φ100 × 223.6mm
Filter thread	M107 × 1	M82 × 0.75	M82 × 0.75
Mass	2.1kg	1.7kg	2.01kg
Option	–	WE (HAS18x7.6BZD-T5DD)	–
System chart	3D-SS-ZD06 / 3D-SS-ZD08	3D-SS-ZD06 / 3D-SS-ZD08	3D-SS-ZD06 / 3D-SS-ZD08
Appearance			

WE Without Extender

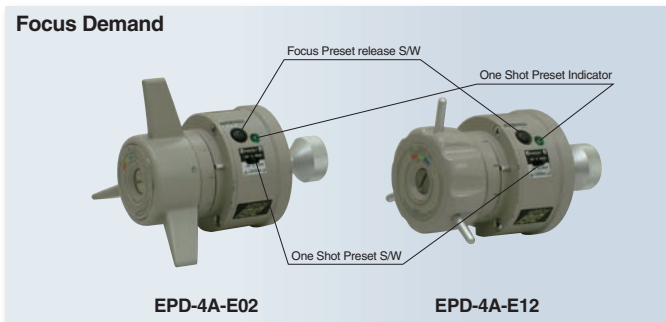
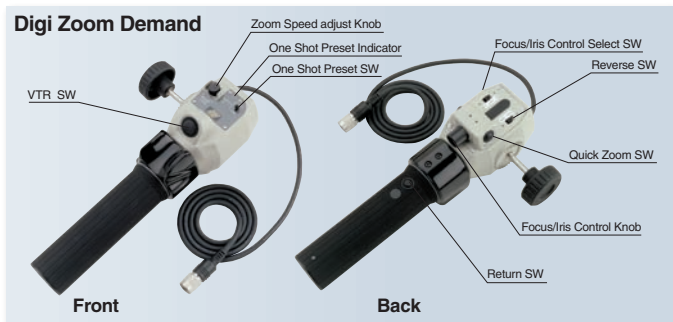
ENG / EFP LENSES

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.



DIGITAL SERVO SYSTEM

Many FUJINON ENG / EFP lenses feature our digital servo control system, known as DIGIPOWER. All DIGIPOWER ENG / EFP lenses provide vastly improved accuracy and repeatability compared to previous designs and enable custom control parameters to be memorized for individual camera operator's preferences.



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.

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.

Quick Frame (Optional)

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

Quickframe
For Your Best Shot



Virtual Connector (Optional)

FUJIFILM has developed a small, lightweight encoder device installed within the drive unit. Available optionally, the DIGIPOWER drive unit built-in high resolution encoders feature more accurate positioning in virtual studio, robotics and other applications.



HD ENG / EFP LENS SERIES



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.



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.



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.

NEW DIGITAL GRIP

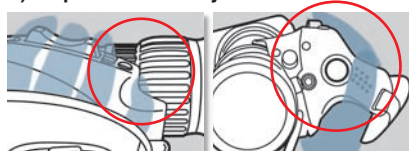
FUJIFILM has designed a new, unique Digital Grip for all DIGIPOWER portable lenses. The new Grip is designed to enhance our already exceptional operation performance.

Features

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.

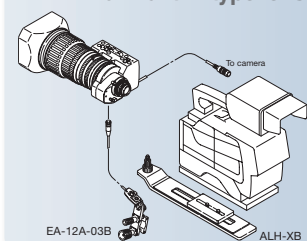
Other

OS-TECH

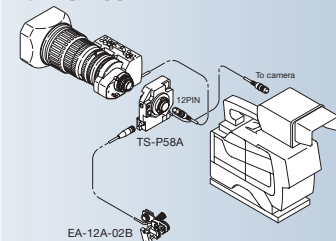
FUJIFILM's HA42x lenses are equipped with built-in OS-TECH, our Optical Stabilized Technology. This feature optically compensates for image vibration by use of the optical shift system. In addition, the TS-P58A adapter provides stabilization for any applicable ENG lens. As an additional feature, the adapter increases the lens magnification by 1.25 times making extreme close-up shots possible with shorter focal length lenses.



HA42x For Built-in type lens



For TS-P58A



MODEL NAME	TS-P58A OS-TECH
Stabilization system	Optical shift system
Magnification of focal length	1.25 x
Power consumption	DC12V, 4.2W (from camera)
Size H x W x L	150 x 120 x 58mm
Mass	0.84kg
Applicable lens	HA36x, HA25x, HA23x, HA22x, HA18x, HA13x, HA10x, A36x, A23x, A22x, A18x, A13x, A42x, HA20x, HA16x

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

V format

There are two types of switchable format cameras available. One type utilizes 16:9 format CCD's and switches to the 4:3 aspect ratio. The other utilizes 4:3 CCD's and switches to the 16:9 format. When the 16:9 CCD type system is employed it is necessary to compensate for an approximately 20% loss in angle of view when switching to the 4:3 aspect ratio. FUJIFILM offers an optional ratio converter, which is located in the extender turret with this converter built into an enlarged extender housing.



PREMIER Series **HD**

2/3"

MODEL NAME	HA14×4.5BE	HA16×6.3BE	HA18×7.6BE
Focal length (1×) / (2×)	4.5–63mm / 9.9–138mm	6.3–101mm / 12.6–202mm	7.6–137mm / 15.2–274mm
Zoom ratio	14 ×	16 ×	18 ×
Extender	2.2 ×	2 ×	2 ×
Maximum relative aperture (F-No.)	1 : 1.8(4.5–41mm) 1 : 2.8(59mm)	1 : 1.8(6.3–63mm) 1 : 2.9(101mm)	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. (1×)	4.5mm 743 × 418mm	6.3mm 712 × 400mm	7.6mm 696 × 392mm
16 : 9 Aspect ratio	63mm 51 × 29mm	101mm 45 × 25mm	137mm 41 × 23mm
(2×)	9.9mm 329 × 185mm	12.6mm 356 × 200mm	15.2mm 362 × 204mm
	138mm 24 × 13mm	202mm 22 × 13mm	274mm 21 × 12mm
Angular field of view (1×)	4.5mm 93°38' × 61°50'	6.3mm 74°33' × 46°19'	7.6mm 64°30' × 39°03'
16 : 9 Aspect ratio	63mm 8°42' × 4°54'	101mm 5°26' × 3°03'	137mm 4°01' × 2°15'
(2×)	9.9mm 51°41' × 30°27'	12.6mm 41°40' × 24°90'	15.2mm 35°01' × 20°07'
	138mm 3°57' × 2°13'	202mm 2°43' × 1°32'	274mm 2°00' × 1°08'
Macro	Standard	Standard	Standard
Filter thread	M127×0.75 (Filter attaches to the lens hood.)	M107×1 (Filter attaches to the lens hood.)	M82×0.75
Size Φ×Length	Φ95×238.5mm	Φ95×238.5mm	Φ85×204mm
Mass (without lens hood)	2.08kg(RM) / 2.14kg(RD)	1.98kg(RM) / 2.05kg(RD)	1.58kg(RM) / 1.65kg(RD)
Features	IF QZ ZL 2.2	IF QZ ZL	IF QZ ZL
Option	QF VC	QF VC	QF Vformat WE VC
Available model	HA14×4.5BERM / BERD / BEZM / BEZD	HA16×6.3BERM / BERD / BEZM / BEZD	HA18×7.6BERM / BERD / BEZM / BEZD HA18×7.6BDERM / BDERD / BDEZM / BDEZD HA18×7.6BRM / BRD
Appearance			

MODEL NAME	HA22×7.3BE	HA23×7.6BE
Focal length (1×) / (2×)	7.3–161mm / 14.6–322mm	7.6–175mm / 15.2–350mm
Zoom ratio	22 ×	23 ×
Extender	2 ×	2 ×
Maximum relative aperture (F-No.)	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	0.85m	0.8m
Object dimensions at M.O.D. (1×)	7.3mm 1222 × 687mm	7.6mm 915 × 514mm
16 : 9 Aspect ratio	161mm 55 × 31mm	175mm 41 × 23mm
(2×)	14.6mm 609 × 342mm	15.2mm 473 × 266mm
	322mm 28 × 16mm	350mm 21 × 12mm
Angular field of view (1×)	7.3mm 66°36' × 40°32'	7.6mm 64°30' × 39°03'
16 : 9 Aspect ratio	161mm 3°25' × 1°55'	175mm 3°08' × 1°46'
(2×)	14.6mm 36°22' × 20°55'	15.2mm 35°01' × 20°07'
	322mm 1°42' × 0°58'	350mm 1°34' × 0°53'
Macro	Standard	Standard
Filter thread	M127×0.75 (Filter attaches to the lens hood.)	M95×1 / M107×1 (Filter attaches to the lens hood.)
Size Φ×Length	Φ110×287.3mm	Φ100×223.6mm
Mass (without lens hood)	3.15kg(RM) / 3.22kg(RD)	1.88kg(RM) / 1.95kg(RD)
Features	IF QZ ZL	IF QZ ZL
Option	QF Vformat VC	QF Vformat VC
Available model	HA22×7.3BERM / BERD / BEZM / BEZD HA22×7.3BDERM / BDERD / BDEZM / BDEZD	HA23×7.6BERM / BERD / BEZM / BEZD HA23×7.6BDERM / BDERD / BDEZM / BDEZD
Appearance		

IF Inner Focus

QF QuickFrame

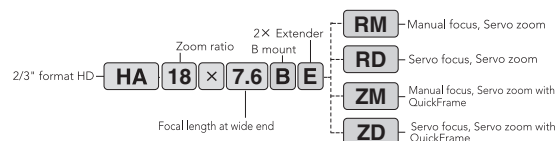
QZ Quick Zoom

Vformat Variable Format

ZL Zoom limit [※]

WE Without Extender **VC** Virtual Connector **2.2** Extender ×2.2

※New Grip's Zoom Limit function is controlled by Digi Zoom Demand.



2/3"

MODEL NAME	HA25×11.5BERD	HA25×16.5BERD	HA42×9.7BERD	HA42×13.5BERD
Focal length (1x) / (2x)	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. (1x)	11.5mm 1740 × 978mm	16.5mm 1213 × 682mm	9.7mm 2619 × 1472mm	13.5mm 1888 × 1061mm
16 : 9 Aspect ratio	288mm 70 × 39mm	413mm 49 × 27mm	410mm 64 × 36mm	570mm 45 × 25mm
(2x)	23mm 870 × 489mm	33mm 606 × 341mm	19.4mm 1339 × 753mm	27mm 944 × 530mm
	576mm 35 × 20mm	826mm 24 × 14mm	820mm 33 × 19mm	1140mm 22 × 13mm
Angular field of view (1x)	11.5mm 45°16' × 26°23'	16.5mm 32°25' × 18°33'	9.7mm 52°37' × 31°03'	13.5mm 39°07' × 22°35'
16 : 9 Aspect ratio	288mm 1°54' × 1°04'	413mm 1°20' × 0°45'	410mm 1°20' × 0°45'	570mm 0°58' × 0°33'
(2x)	23mm 23°33' × 13°22'	33mm 16°32' × 9°20'	19.4mm 27°46' × 15°49'	27mm 20°08' × 11°24'
	576mm 0°57' × 0°32'	826mm 0°40' × 0°22'	820mm 0°40' × 0°23'	1140mm 0°29' × 0°16'
Macro	Standard	Standard	Standard	Standard
Filter thread	M107×1	M107×1	M127×0.75	M127×0.75
Size ϕ ×Length	ϕ 110×265mm	ϕ 110×278mm	ϕ 130×338.5mm	ϕ 130×358.5mm
Mass (without lens hood)	2.8kg	2.9kg	5.3kg	5.4kg
Features	IF QZ	IF QZ	IF QZ ZL OS-TECH Lens supporter is required	IF QZ ZL OS-TECH Lens supporter is required
Option				
Available model	HA25×11.5BERD-S / -F	HA25×16.5BERD-S / -F	HA42×9.7BERD-S / -F / -U / -G	HA42×13.5BERD-S / -F / -U / -G
Appearance				

1/2"

MODEL NAME	HS16×4.6BE	HS18×5.5BE	HTs18×4.2BE
Focal length (1x) / (2x)	4.6–74mm / 9.2–148mm	5.5–100mm / 11.0–200mm	4.2–76mm / 8.4–152mm
Zoom ratio	16 ×	18 ×	18 ×
Extender	2 ×	2 ×	2 ×
Maximum relative aperture (F-No.)	1 : 1.4(4.6–47mm) 1 : 2.2(74mm)	1 : 1.4(5.5–77mm) 1 : 1.8(100mm)	1 : 1.4(4.2–76mm) 1 : 2.8(8.4–152mm)
Minimum object distance (M.O.D.) from front lens	0.4m	0.6m	0.6m
Object dimensions at M.O.D. (1x)	4.6mm 710 × 399mm	5.5mm 692 × 398mm	4.2mm 697 × 392mm
16 : 9 Aspect ratio	74mm 41 × 23mm	100mm 40 × 23mm	76mm 41 × 23mm
(2x)	9.2mm 355 × 199mm	11.0mm 359 × 202mm	8.2mm 360 × 202mm
	148mm 22 × 12mm	200mm 21 × 12mm	152mm 21 × 12mm
Angular field of view (1x)	4.6mm 74°18' × 46°9'	5.5mm 64°43' × 39°14'	4.2mm 63°49' × 38°35'
16 : 9 Aspect ratio	74mm 5°24' × 3°02'	100mm 4°00' × 2°15'	76mm 3°56' × 2°13'
(2x)	9.2mm 41°30' × 24°03'	11.0mm 35°09' × 20°12'	8.2mm 34°35' × 19°51'
	148mm 2°42' × 1°31'	200mm 2°00' × 1°07'	152mm 1°58' × 1°6'
Macro	Standard	Standard	Standard
Filter thread	M107×1 (Filter attaches to the lens hood.)	M82×0.75	M82×0.75
Size ϕ ×Length	ϕ 95×240mm	ϕ 85×206.6mm	ϕ 85×206.6mm
Mass (without lens hood)	1.98kg	1.6kg	1.58kg
Features	IF QZ ZL	IF QZ ZL	IF QZ ZL
Option		WE	WE
Available model	HS16×4.6BERM	HS18×5.5BERM / BERD HSs18×5.5BRM / BRD	HTs18×4.2BERM HTs18×4.2BRM
Appearance			

IF Inner Focus

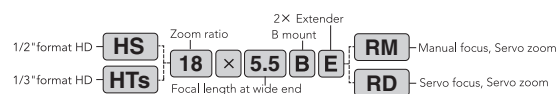
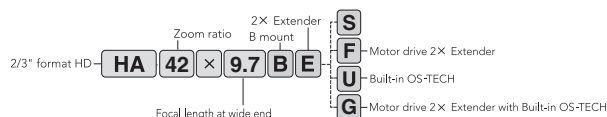
QZ Quick Zoom

ZL Zoom limit*

OS-TECH Optical Stabilized Technology

WE Without Extender

*New Grip's Zoom Limit function is controlled by Digi Zoom Demand.



SELECT Series **HD**

2/3"

MODEL NAME	ZA12×4.5BE	ZA17×7.6BE	ZA22×7.6BE
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. (1×)	4.5mm 757 × 425mm	7.6mm 696 × 392mm	7.6mm 915 × 514mm
16 : 9 Aspect ratio	54mm 59 × 33mm	130mm 43 × 24mm	167mm 43 × 24mm
(2×)	9mm 373 × 210mm	15.2mm 362 × 204mm	15.2mm 473 × 266mm
	108mm 31 × 17mm	260mm 22 × 12mm	334mm 22 × 12mm
Angular field of view (1×)	4.5mm 93°38' × 61°50'	7.6mm 64°30' × 39°03'	7.6mm 64°30' × 39°03'
16 : 9 Aspect ratio	54mm 10°09' × 5°43'	130mm 4°13' × 2°23'	167mm 3°17' × 1°51'
(2×)	9mm 56°06' × 33°20'	15.2mm 35°01' × 20°07'	15.2mm 35°01' × 20°07'
	108mm 5°05' × 2°52'	260mm 2°07' × 1°11'	334mm 1°39' × 0°55'
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.)
Size ϕ ×Length	ϕ 95×237.5mm	ϕ 85×203mm	ϕ 100×222.6mm
Mass (without lens hood)	1.93kg(RM) / 2.0kg(RD)	1.53kg(RM) / 1.6kg(RD)	1.83kg(RM) / 1.9kg(RD)
Features	IF QZ ZL	IF QZ ZL	IF QZ ZL
Option	WE	WE	WE
Available model	ZA12×4.5BERM / BERD ZA12×4.5BRM / BRD	ZA17×7.6BERM / BERD ZA17×7.6BRM / BRD	ZA22×7.6BERM / BERD ZA22×7.6BRM / BRD
Appearance			

IF Inner focus **QZ** QUICKZOOM **ZL** Zoom limit* **WE** Without Extender

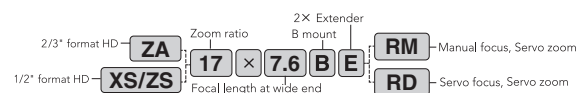
*New Grip's Zoom Limit function is controlled by Digi Zoom Demand.

1/2"

MODEL NAME	XS13×3.3BRM	XS17×5.5BRM	NEW ZS17×5.5BE
Focal length (1×) / (2×)	3.3–43mm / –	5.5–94mm / –	5.5–94mm / 11–188mm
Zoom ratio	13 ×	17 ×	17 ×
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(5.5–77mm) 1 : 1.7(94mm)
Minimum object distance (M.O.D.) from front lens	0.3m	0.6m	0.6m
Object dimensions at M.O.D. (1×)	3.3mm 752 × 423mm	5.5mm 692 × 389mm	5.5mm 692 × 389mm
16 : 9 Aspect ratio	43mm 54 × 30mm	94mm 42 × 24mm	94mm 42 × 24mm
(2×)	–	–	11mm 362 × 204mm
	–	–	188mm 22 × 12mm
Angular field of view (1×)	3.3mm 93°38' × 61°50'	5.5mm 64°43' × 39°14'	5.5mm 64°43' × 39°14'
16 : 9 Aspect ratio	43mm 10°09' × 5°43'	94mm 4°15' × 2°23'	94mm 4°15' × 2°23'
(2×)	–	–	11mm 35°09' × 20°12'
	–	–	188mm 2°07' × 1°12'
Macro	Standard	Standard	Standard
Filter thread	M127×0.75 (Filter attaches to the lens hood.)	M82×0.75	M82×0.75
Size ϕ ×Length	ϕ 95×240.5mm	ϕ 85×206.6mm	ϕ 85 × 206.6mm
Mass (without lens hood)	1.93kg	1.53kg	1.58kg
Features	IF QZ ZL	IF QZ ZL	IF QZ ZL
Option			
Available model	XS13×3.3BRM	XS17×5.5BRM	ZS17×5.5BERM / BERD
Appearance			

IF Inner focus **QZ** QUICKZOOM **ZL** Zoom limit*

*New Grip's Zoom Limit function is controlled by Digi Zoom Demand.



eXceed Series **HD**

2/3"

MODEL NAME	XA16s×8BRAM	XA20s×8.5BRM
Focal length (1×) / (2×)	8.0–128mm / –	8.5–170mm / –
Zoom ratio	16 ×	20 ×
Extender	–	–
Maximum relative aperture (F-No.)	1 : 1.9(8mm) 1 : 2.8(128mm)	1 : 1.8(8.5–113mm) 1 : 2.7(170mm)
Minimum object distance (M.O.D.) from front lens	0.8m	0.9m
Object dimensions at M.O.D. (1×)	8mm 1023 × 575mm	8.5mm 910 × 511mm
16 : 9 Aspect ratio	128mm 98 × 55mm	170mm 47 × 26mm
(2×)	–	–
Angular field of view (1×)	8mm 61°52' × 37°14'	8.5mm 58°51' × 35°11'
16 : 9 Aspect ratio	128mm 4°17' × 2°25'	170mm 3°14' × 1°49'
(2×)	–	–
Macro	Standard ^{*1}	Standard
Filter thread	M82×0.75	M82×0.75
Size ϕ×Length	ϕ85×163.8mm	ϕ85×180.8mm
Mass (without lens hood)	1.52kg	1.48kg
Features	RF	IF QZ ^{*2}
Option		
Available model	XA16×8BRAM	XA20s×8.5BRM
Appearance		

1/2"

MODEL NAME	XS20s×6.3BRM	XT17s×4.5BRM	XT20s×4.7BRM
Focal length (1×) / (2×)	6.3–126mm / –	4.5–77mm / –	4.7–94mm / –
Zoom ratio	20 ×	17 ×	20 ×
Extender	–	–	–
Maximum relative aperture (F-No.)	1 : 1.4(6.3–88mm) 1 : 2.0(126mm)	1 : 1.6(4.5–77mm)	1 : 1.4(4.7–87.7mm) 1 : 1.5(94mm)
Minimum object distance (M.O.D.) from front lens	0.9m	0.95m	0.9m
Object dimensions at M.O.D. (1×)	6.3mm 904 × 508mm	4.5mm 500 × 281mm	4.7mm 901 × 506mm
16 : 9 Aspect ratio	126mm 47 × 26mm	77mm 30 × 17mm	94mm 47 × 26mm
(2×)	–	–	–
Angular field of view (1×)	6.3mm 57°54' × 34°34'	4.5mm 60°19' × 36°11'	4.7mm 58°11' × 34°44'
16 : 9 Aspect ratio	126mm 3°10' × 1°47'	77mm 3°53' × 2°11'	94mm 3°11' × 1°48'
(2×)	–	–	–
Macro	Standard	Standard	Standard
Filter thread	M82×0.75	M82×0.75	M82×0.75
Size ϕ×Length	ϕ85×181.9mm	ϕ85×175.6mm	ϕ85×189.8mm
Mass (without lens hood)	1.4kg (RM)	1.28kg	1.48kg
Features	IF QZ ^{*2}	IF QZ ^{*2}	IF QZ ^{*2}
Option			
Available model	XS20s×6.3BRM	XT17s×4.5BRM	XT20s×4.7BRM
Appearance			

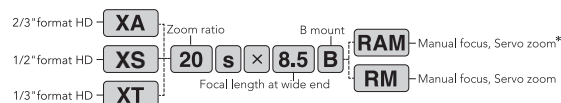
IF Inner Focus

QZ Quick Zoom

RF Rear Focus

*1 : XA16s×8BRAM lens macro mode is enabled, when you slide focus ring.

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



* : Lens focus operation requires power of camera.

ENG / EFP LENSES

BROADCAST ENG / EFP LENSES (SDTV)

FUJINON's standard definition lenses offer a wide range wide to telephoto and super telephoto zoom ENG and EFP lenses. The exclusive DIGIPOWER servo system is incorporated for smooth, fast zooming.

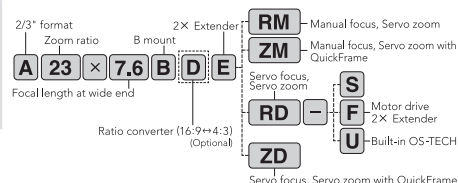
2/3"

MODEL NAME	A13×4.5BE	A18×7.6BE	A23×7.6BE
Focal length (1×) / (2×)	4.5–59mm / 9–118mm	7.6–137mm / 15.2–274mm	7.6–175mm / 15.2–350mm
Zoom ratio	13 ×	18 ×	23 ×
Extender	2 ×	2 ×	2 ×
Maximum relative aperture (F-No.)	1 : 1.8(4.5–41mm) 1 : 2.6(59mm)	1 : 1.8(7.6–103mm) 1 : 2.4(137mm)	1 : 1.8(7.6–122mm) 1 : 2.65(175mm)
Minimum object distance (M.O.D.) from front lens	0.3m	0.6m	0.8m
Object dimensions at M.O.D. (1×) 4 : 3 Aspect ratio	4.5mm 692 × 519mm 59mm 50 × 38mm	7.6mm 641 × 481mm 137mm 37 × 28mm	7.6mm 843 × 632mm 175mm 38 × 29mm
(2×)	9mm 340 × 255mm 118mm 26 × 20mm	15.2mm 333 × 249mm 274mm 19 × 14mm	15.2mm 434 × 326mm 350mm 20 × 15mm
Object dimensions at M.O.D. (1×) 16 : 9 Aspect ratio	4.5mm 757 × 425mm 59mm 55 × 31mm	7.6mm 696 × 392mm 137mm 41 × 23mm	7.6mm 915 × 514mm 175mm 41 × 23mm
(2×)	9mm 373 × 210mm 118mm 29 × 16mm	15.2mm 362 × 204mm 274mm 21 × 12mm	15.2mm 473 × 266mm 350mm 21 × 12mm
Angular field of view (1×) 4 : 3 Aspect ratio	4.5mm 88°43' × 72°30' 59mm 8°32' × 6°24'	7.6mm 60°08' × 46°57' 137mm 3°41' × 2°46'	7.6mm 60°08' × 46°57' 175mm 2°53' × 2°10'
(2×)	9mm 52°06' × 40°16' 118mm 4°16' × 3°12'	15.2mm 32°17' × 24°30' 274mm 1°50' × 1°23'	15.2mm 32°17' × 24°30' 350mm 1°26' × 1°05'
Angular field of view (1×) 16 : 9 Aspect ratio	4.5mm 93°38' × 61°50' 59mm 9°18' × 5°14'	7.6mm 64°30' × 39°03' 137mm 4°01' × 2°15'	7.6mm 64°30' × 39°03' 175mm 3°08' × 1°46'
(2×)	9mm 56°06' × 33°20' 118mm 4°39' × 2°37'	15.2mm 35°01' × 20°07' 274mm 2°00' × 1°08'	15.2mm 35°01' × 20°07' 350mm 1°34' × 0°53'
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.)
Size Φ×Length	Φ95×237.5mm	Φ85×203mm	Φ100×222.6mm
Mass (without lens hood)	1.93kg(RM) / 2.0kg(RD)	1.53kg(RM) / 1.6kg(RD)	1.83kg(RM) / 1.9kg(RD)
Features	IF QZ ZL	IF QZ ZL	IF QZ ZL
Option	QF Vformat	QF Vformat	QF Vformat
Available model	A13×4.5 BERM / BERD / BEZM / BEZD A13×4.5 BDERM / BDERD / BDEZM / BDEZD	A18×7.6 BERM / BERD / BEZM / BEZD A18×7.6 BDERM / BDERD / BDEZM / BDEZD	A23×7.6 BERM / BERD / BEZM / BEZD A23×7.6 BDERM / BDERD / BDEZM / BDEZD
Appearance			

MODEL NAME	A42×9.7BERD	A42×13.5BERD
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 : 2.0(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. (1×) 4 : 3 Aspect ratio	9.7mm 2404 × 1803mm 410mm 58 × 44mm	13.5mm 641 × 481mm 570mm 37 × 28mm
(2×)	19.4mm 1229 × 922mm 820mm 30 × 23mm	27mm 333 × 249mm 1140mm 19 × 14mm
Object dimensions at M.O.D. (1×) 16 : 9 Aspect ratio	9.7mm 2619 × 1472mm 410mm 64 × 36mm	13.5mm 641 × 481mm 570mm 37 × 28mm
(2×)	19.4mm 1339 × 753mm 820mm 33 × 19mm	27mm 333 × 249mm 1140mm 19 × 14mm
Angular field of view (1×) 4 : 3 Aspect ratio	9.7mm 48°48' × 37°35' 410mm 1°14' × 0°55'	13.5mm 36°06' × 27°28' 570mm 0°53' × 0°40'
(2×)	19.4mm 25°33' × 19°18' 820mm 0°37' × 0°28'	27mm 18°31' × 13°56' 1140mm 0°27' × 0°20'
Angular field of view (1×) 16 : 9 Aspect ratio	9.7mm 52°37' × 31°03' 410mm 1°20' × 0°45'	13.5mm 39°07' × 22°35' 570mm 0°58' × 0°33'
(2×)	19.4mm 27°46' × 15°49' 820mm 0°40' × 0°23'	27mm 20°08' × 11°24' 1140mm 0°29' × 0°16'
Macro	Standard	Standard
Filter thread	M127×0.75	M127×0.75
Size Φ×Length	Φ130×337.5mm	Φ130×357.5mm
Mass (without lens hood)	5.1kg	5.2kg
Features	IF QZ ZL	IF QZ ZL
Option		
Available model	A42×9.7BERD-S / -F / -U	A42×13.5BERD-S / -F / -U
Appearance		

IF Inner Focus **QF** QuickFrame **QZ** Quick Zoom **Vformat** Variable Format **ZL** Zoom limit*

*New Grip's Zoom Limit function is controlled by Digi Zoom Demand.



PROFESSIONAL LENSES (SDTV)

FUJINON's professional lenses offer high optical quality and a range of focal lengths for 2/3", 1/2" and 1/3" format camera applications.

2/3"

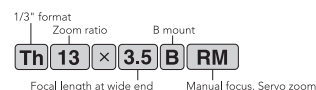
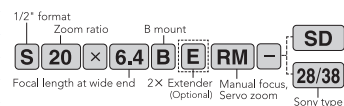
MODEL NAME	A13×6.3BRM / BERM	A17×9BRM	A20×8.6BRM / BERM
Focal length (1×) / (2×)	6.3–82mm / 12.6–164mm (BERM)	9–155mm / –	8.6–172mm / 17.2–344mm (BERM)
Zoom ratio	13 ×	17 ×	20 ×
Extender	2 × (BERM)	–	2 × (BERM)
Maximum relative aperture (F-No.)	1 : 2(6.3–61mm) 1 : 2.7(82mm)	1 : 1.9(9–115mm) 1 : 2.6(155mm)	1 : 1.8(8.6–115mm) 1 : 2.7(172mm)
Minimum object distance (M.O.D.)	0.4m	0.9m	0.9m
Object dimensions at M.O.D. (1×)	6.3mm 617 × 463mm 82mm 47 × 36mm	9mm 815 × 611mm 155mm 47 × 36mm	8.6mm 866 × 650mm 172mm 43 × 33mm
4 : 3 Aspect ratio (2×)	12.6mm 309 × 231mm 164mm 24 × 18mm	–	17.2mm 433 × 325mm 344mm 21 × 16mm
Angular field of view (1×)	6.3mm 69°52' × 55°18' 82mm 6°09' × 4°37'	9mm 52°06' × 40°16' 155mm 3°15' × 2°26'	8.6mm 54°11' × 41°59' 172mm 2°56' × 2°12'
4 : 3 Aspect ratio (2×)	12.6mm 38°30' × 29°21' 164mm 3°04' × 2°18'	–	17.2mm 28°42' × 21°43' 344mm 1°28' × 1°06'
Macro	Standard	Standard	Standard
Filter thread	M82×0.75	M82×0.75	M82×0.75
Size Ø×Length	Ø85×232mm	Ø85×178mm	Ø85×186.3mm(BRM) / Ø85×200.3mm(BERM)
Mass (without lens hood)	1.68kg(BRM) / 1.78kg(BERM)	1.25kg	1.4kg(BRM) / 1.5kg(BERM)
Features	IF	IF	IF
Available model	A13×6.3BRM / A13×6.3BERM	A17×9BRM	A20×8.6BRM / A20×8.6BERM
Appearance			

1/2"

MODEL NAME	S13×4.6BRM / BERM	S17×6.6BRM	S20×6.4BRM / BERM
Focal length (1×) / (2×)	4.6–60mm / 9.2–120mm (BERM)	6.6–114mm / –	6.4–128mm / 12.8–256mm (BERM)
Zoom ratio	13 ×	17 ×	20 ×
Extender	2 × (BERM)	–	2 ×
Maximum relative aperture (F-No.)	1 : 1.5(4.6–45mm) 1 : 2(60mm)	1 : 1.5(6.6–90mm) 1 : 1.9(114mm)	1 : 1.4(6.4–90mm) 1 : 2(128mm)
Minimum object distance (M.O.D.)	0.4m	0.9m	0.9m
Object dimensions at M.O.D. (1×)	4.6mm 633 × 475mm 60mm 49 × 37mm	6.6mm 808 × 606mm 114mm 47 × 35mm	6.4mm 846 × 635mm 128mm 42 × 32mm
4 : 3 Aspect ratio (2×)	9.2mm 315 × 236mm 120mm 24 × 18mm	–	12.8mm 423 × 317mm 256mm 21 × 16mm
Angular field of view (1×)	4.6mm 69°39' × 55°06' 60mm 6°06' × 4°35'	6.6mm 51°44' × 39°58' 114mm 3°13' × 2°25'	6.4mm 53°08' × 41°07' 128mm 2°52' × 2°09'
4 : 3 Aspect ratio (2×)	9.2mm 38°21' × 29°15' 120mm 3°03' × 2°17'	–	12.8mm 28°04' × 21°14' 256mm 1°26' × 1°04'
Macro	Standard	Standard	Standard
Filter thread	M82×0.75	M82×0.75	M82×0.75
Size Ø×Length	Ø85×235.9mm	Ø85×181.8mm	Ø85×190mm(BRM) / Ø85×204.1mm(BERM)
Mass (without lens hood)	1.68kg(BRM) / 1.78kg(BERM)	1.25kg	1.4kg(BRM) / 1.5kg(BERM)
Features	IF	IF	IF
Available model	S13×4.6BR M-SD / -28, S13×4.6BERM-SD / -28	S17×6.6BRM-SD / -38	S20×6.4BRM-SD / -38, S20×6.4BERM-SD / -38
Appearance			

1/3"

MODEL NAME	Th13×3.5BRM	Th17×5BRM
Focal length (1×) / (2×)	3.5–46mm / –	5–85mm / –
Zoom ratio	13 ×	17 ×
Extender	–	–
Maximum relative aperture (F-No.)	1 : 1.4(3.5–43mm) 1 : 1.5(46mm)	1 : 1.4(5–85mm)
Minimum object distance (M.O.D.)	0.4m	0.9m
Object dimensions at M.O.D. (1×)	3.5mm 605 × 454mm 46mm 49 × 36mm	5mm 800 × 600mm 85mm 47 × 35mm
4 : 3 Aspect ratio (2×)	–	–
Angular field of view (1×)	3.5mm 68°53' × 54°26' 46mm 5°58' × 4°29'	5mm 51°17' × 39°36' 85mm 3°14' × 2°26'
4 : 3 Aspect ratio (2×)	–	–
Macro	Standard	Standard
Filter thread	M82×0.75	M82×0.75
Size Ø×Length	Ø85×228mm	Ø85×185.5mm
Mass (without lens hood)	1.68kg	1.3kg
Features	IF	IF
Available model	Th13×3.5BRM	Th17×5BRM
Appearance		



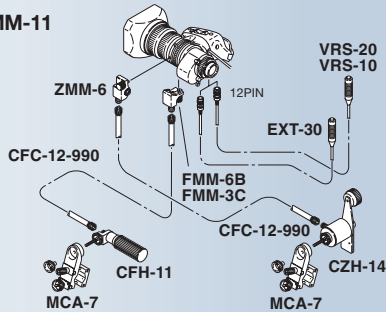
IF Inner Focus

CONTROL ACCESSORIES

RM / ZM

MM-11

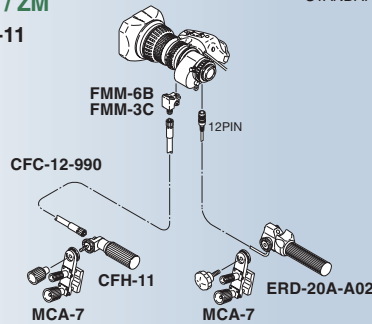
STANDARD



RM / ZM

MS-11

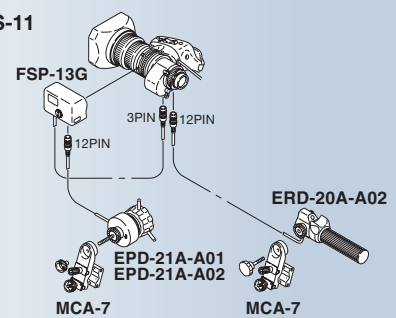
STANDARD



RM / ZM

SS-11

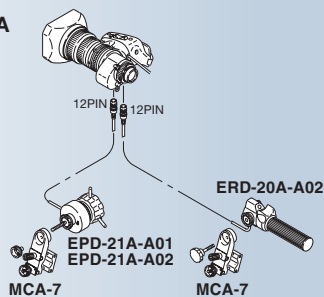
STANDARD



RD / ZD

SS-13A

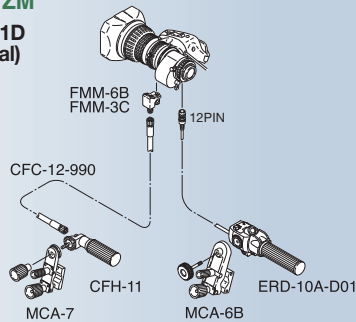
STANDARD



RM / ZM

MS-11D (Digital)

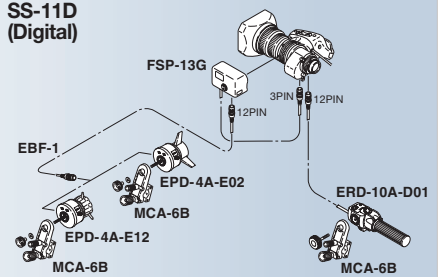
DIGIPOWER



RM / ZM

SS-11D (Digital)

DIGIPOWER

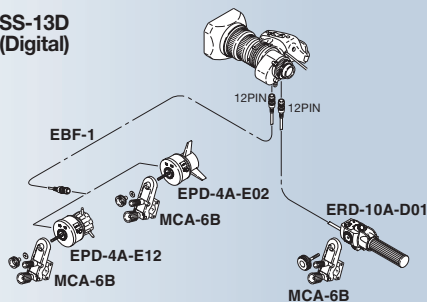


Some DIGIPOWER functions of EPD-4A-E02 / E12 may be limited.

RD / ZD

SS-13D (Digital)

DIGIPOWER

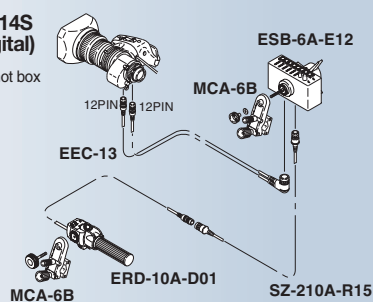


RD / ZD

SS-14S (Digital)

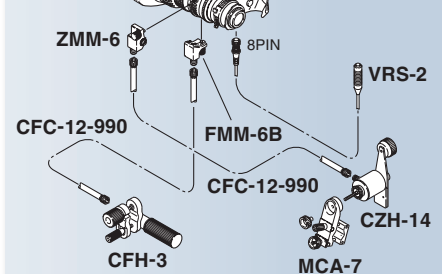
w / Shot box

DIGIPOWER



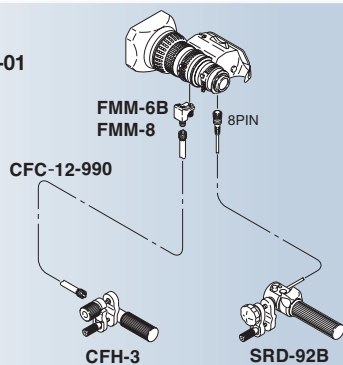
RM

MM-01



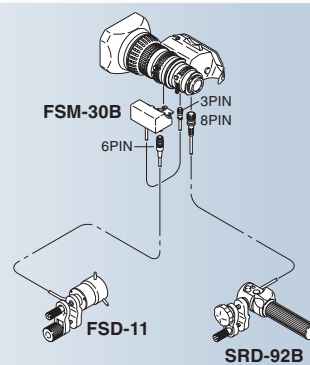
RM

MS-01



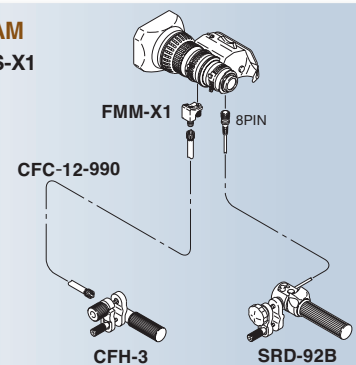
RM

SS-01



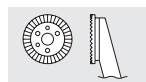
RAM

MS-X1



MM: Manual focus / Manual zoom
MS: Manual focus / Servo zoom
SS: Servo focus / Servo zoom

MCA-7 / MCA-6B



※ A variety of Conversion and Extension cables are available. For details, please ask our sales office.



CONTROL ACCESSORIES COMPATIBILITY

		Standard				Digital DIGI POWER				Standard			
		MM-11	MS-11	SS-11	SS-13A	MS-11D	SS-11D	SS-13D	SS-14S	MM-01	MS-01	MS-X1	SS-01
HDTV	Premier series	RM/ZM	RM/ZM	RM/ZM	RD/ZD	RM/ZM	RM/ZM	RD/ZD	RD/ZD				
	Select Series	RM/ZM	RM/ZM	RM/ZM	RD/ZD	RM/ZM	RM/ZM	RD/ZD	RD/ZD				
	eXceed Series									●	●	●※	●
SDTV	Broadcast lens series	RM/ZM	RM/ZM	RM/ZM	RD/ZD	RM/ZM	RM/ZM	RD/ZD	RD/ZD				
	Professional series									●	●		●

※XA16sx8BRAM is available

WIRELESS CONTROL KIT **NEW**

New FUJIFILM Wireless control system

The newly designed Wireless control system is designed to operate in a wide variety of applications; from jibs and cranes, to hazardous locations, to everyday studios. The robust signal transmission system prevents outside source interference and features an operational distance of up to 100 meters. All lens operation features are controllable and operate smoothly. The change between wired and wireless is fast and it is possible to easily go from a tripod mounted camera with rear wireless controls, to on the shoulder use instantly. FUJINON's Wireless control system will work with any DIGIPOWER lens and zoom and focus controls. And, of course, it will control lenses in 3D configuration.



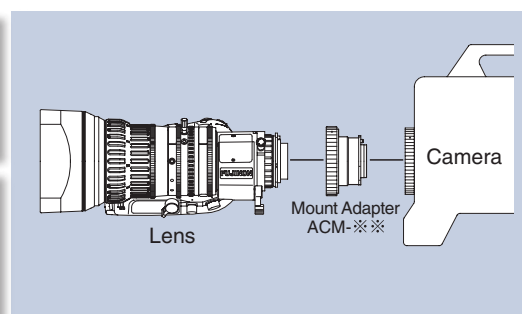
MOUNT ADAPTERS

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-12	1/3" Bayonet Mount	1/2" 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

ACM-17



ACM-21



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

VIDEOCONFERENCING LENSES

VIDEOCONFERENCING LENSES

FUJINON Videoconferencing series offer a complete line of remote control lenses from wide to telephoto, SD to HD.

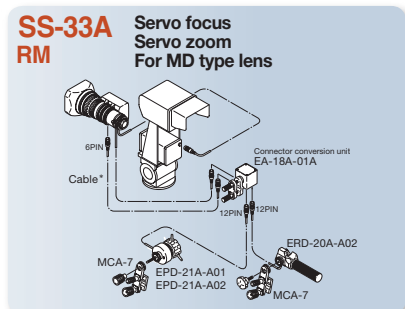
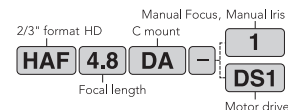
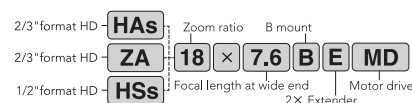
FUJINON Videoconferencing lenses are ideal for a wide variety of applications.

HD




2/3"

1/2"

MODEL NAME	HAs18×7.6BMD	HSs18×5.5BMD
Focal length	7.6–137mm	5.5–100mm
Zoom ratio	18×	18×
Maximum relative aperture (F-No.)	1 : 1.8(7.6–105mm) 1 : 2.4(137mm)	1 : 1.4(5.5–77mm) 1 : 1.8(100mm)
Minimum object distance (M.O.D.)	0.6m	0.6m
Object dimensions at M.O.D.	7.6mm 738 × 415mm	5.5mm 741 × 417mm
16 : 9 Aspect ratio	137mm 41 × 23mm	100mm 41 × 23mm
Angular field of view	7.6mm 64°30' × 39°03'	5.5mm 64°43' × 39°14'
16 : 9 Aspect ratio	137mm 4°01' × 2°15'	100mm 4°00' × 2°15'
Macro	Standard	Standard
Filter thread	M82×0.75	M82×0.75
Size Φ×Length	Φ85×204mm	Φ85×206.6mm
Mass (without lens hood)	1.55kg	1.55kg
Available model	HAs18×7.6BMD	HSs18×5.5BMD-D18
Appearance		



HD 2/3"

MODEL NAME	ZA12×4.5BMD / BEMD	ZA17×7.6BMD / BEMD	ZA22×7.6BMD / BEMD
Focal length (1×) / (2×)	4.5–54mm / 9–108mm(BEMD)	7.6–130mm / 15.2–260mm(BEMD)	7.6–167mm / 15.2–334mm(BEMD)
Zoom ratio	12×	17×	22×
Extender	2 ×(BEMD)	2 ×(BEMD)	2 ×(BEMD)
Maximum relative aperture (F-No.)	1 : 1.8(4.5–41mm) 1 : 2.4(54mm)	1 : 1.8(7.6–102mm) 1 : 2.4(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. (1×)	4.5mm 757 × 425mm 54mm 59 × 33mm	7.6mm 696 × 392mm 137mm 41 × 23mm	7.6mm 915 × 514mm 167mm 43 × 24mm
16 : 9 Aspect ratio (2×)	9mm 373 × 210mm 118mm 31 × 17mm	15.2mm 362 × 204mm 274mm 21 × 12mm	15.2mm 473 × 266mm 334mm 22 × 12mm
Angular field of view (1×)	4.5mm 93°38' × 61°50' 54mm 10°09' × 5°43'	7.6mm 64°30' × 39°03' 137mm 4°01' × 2°15'	7.6mm 64°30' × 39°03' 167mm 3°17' × 1°51'
16 : 9 Aspect ratio (2×)	9mm 56°06' × 33°20' 108mm 5°05' × 2°52'	15.2mm 35°01' × 20°07' 274mm 2°00' × 1°08'	15.2mm 35°01' × 20°07' 334mm 1°39' × 0°55'
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.)
Size Φ×Length	Φ95×237.5mm	Φ85×203mm	Φ100×220.4mm
Mass (without lens hood)	1.9kg(BMD) / 2.0kg(BEMD)	1.5kg(BMD) / 2.0kg(BEMD)	1.8kg(BMD) / 1.9kg(BEMD)
Available model	ZA12×4.5BMD / ZA12×4.5BEMD	ZA17×7.6BMD / ZA17×7.6BEMD	ZA22×7.6BMD / ZA22×7.6BEMD
Appearance			

HD 2/3"

NEW

C Mount Lenses

MODEL NAME	XA20s×8.5BMD	HAF4.8DA	XA4×7.5DA
Focal length	8.5–170mm	4.8mm	7.5–30mm
Zoom ratio	20×	–	4×
Maximum relative aperture (F-No.)	1:1.8(8.5–113mm) 1:2.7(170mm)	1 : 2.2	1 : 2.8
Minimum object distance (M.O.D.)	0.9m	0.1m	0.45m
Object dimensions at M.O.D.	8.5mm 910×511mm	214 × 120mm	7.5mm 623× 350mm
16 : 9 Aspect ratio	170mm 47×26mm		30mm 125× 70mm
Angular field of view	8.5mm 58°51' × 35°11'	89°56' × 58°37'	7.5mm 65°11' × 39°32'
16 : 9 Aspect ratio	170mm 3°14' × 1°49'		30mm 18°10' × 10°16'
Macro	Standard	–	–
Filter thread	M82×0.75	M55×0.75(1)*1 / M67×0.75(DS1)*2	M52×0.75
Size Φ×Length	Φ85×180.8mm	Φ42×35.6mm / 71×70×37.8mm(H×W×L)	Φ54×161.4mm
Mass (without lens hood)	1.48kg	0.095kg(1) / 0.36kg(DS1)	0.5kg(1) / 0.82kg(DS1)
Available model	XA20s×8.5 BMD	HAF4.8DA-1 / -DS1	HAF4×7.5DA-1 / -DS1
Appearance			

*1: An attached ring(EFL-55-R) is required to install a filter to the lens. *2: An attached ring(EFL-67-R) is required to install a filter to the lens.

SDTV 2/3"

MODEL NAME	A13×6.3BMD / BEMD	A20×8.6BMD / BEMD
Focal length (1×) / (2×)	6.3–82mm / 12.6–164mm	8.6–172mm / 17.2–344mm
Zoom ratio	13 ×	20 ×
Maximum relative aperture (F-No.)	1 : 2(6.3–61mm) 1 : 2.7(82mm)	1 : 1.8(8.6–115mm) 1 : 2.7(172mm)
Minimum object distance (M.O.D.)	0.4m	0.9m
Object dimensions at M.O.D.	6.3mm 617×463mm	8.6mm 866×650mm
4 : 3 Aspect ratio	82mm 47 × 36mm	172mm 43 × 33mm
Angular field of view	6.3mm 69°52' × 55°18'	8.6mm 54°11' × 41°59'
4 : 3 Aspect ratio	82mm 6°09' × 4°37'	172mm 2°56' × 2°12'
Macro	Standard	Standard
Filter thread	M82×0.75	M82×0.75
Size φ×Length	φ85×232mm(BMD), φ85×232mm(BEMD)	φ85×186.3mm(BMD), φ85×200.3mm(BEMD)
Mass (without lens hood)	1.73kg(BMD), 1.83kg (BEMD)	1.45kg(BMD), 1.55kg(BEMD)
Available model	A13×6.3BMD-DSD, A13×6.3BEMD-DSD	A20×8.6BMD-DSD, A20×8.6BEMD-DSD
Appearance		

2/3" format
Zoom ratio B mount
A 20 × 8.6 B E MD - DSD
Focal length at wide end 2X Extender Motor drive (Optional)

SDTV 1/2"


MODEL NAME	S13×4.6BMD / BEMD	S17×6.6BMD	S20×6.4BMD / BEMD
Focal length (1×) / (2×)	4.6–60mm / 9.2–120mm(BEMD)	6.6–114mm / –	6.4–128mm / 12.8–256mm(BEMD)
Zoom ratio	13 ×	17 ×	20 ×
Extender	2 ×(BEMD)	–	2 ×(BEMD)
Maximum relative aperture (F-No.)	1 : 1.5(4.6–45mm) 1 : 2(60mm)	1 : 1.5(6.6–90mm) 1 : 1.9(114mm)	1 : 1.4(6.4–90mm) 1 : 2(128mm)
Minimum object distance (M.O.D.)	0.4m	0.9m	0.9m
Object dimensions at M.O.D. (1×)	4.6mm 633 × 475mm 60mm 49 × 37mm	6.6mm 808 × 606mm 114mm 47 × 35mm	6.4mm 846 × 635mm 128mm 42 × 32mm
4 : 3 Aspect ratio (2×)	9.2mm 315 × 236mm 120mm 24 × 18mm	–	12.8mm 423 × 317mm 256mm 21 × 16mm
Angular field of view (1×)	4.6mm 69°39' × 55°06' 60mm 6°06' × 4°35'	6.6mm 51°44' × 39°58' 114mm 3°13' × 2°25'	6.4mm 53°08' × 41°07' 128mm 2°52' × 2°09'
4 : 3 Aspect ratio (2×)	9.2mm 38°21' × 29°15' 120mm 3°03' × 2°17'	–	12.8mm 28°04' × 21°14' 256mm 1°26' × 1°04'
Macro	Standard	Standard	Standard
Filter thread	M82×0.75	M82×0.75	M82×0.75
Size φ×Length	φ85×235.9mm	φ85×181.8mm	φ85×190mm(BMD), φ85×204.1mm (BEMD)
Mass (without lens hood)	1.73kg(BMD), 1.83kg (BEMD)	1.3kg	1.45kg(BMD), 1.55kg (BEMD)
Available model	S13×4.6BMD-DSD / -D18 / -D38*1 S13×4.6BEMD-DSD / -D18 / -D38*1	S17×6.6BMD-DSD / -D18 / -D38*1	S20×6.4BMD-DSD / -D18 / -D38*1 S20×6.4BEMD-DSD / -D18 / -D38*1
Appearance			

The captioned figures of length are applied to DSD type.

*1 : Zoom, Focus and Iris should be operated by Sony's control unit.

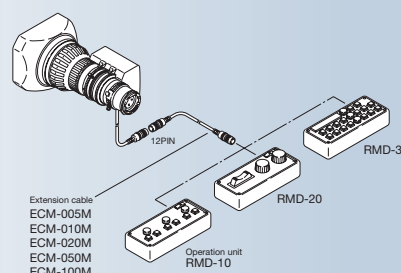
1/2" format
Zoom ratio B mount
S 20 × 6.4 B E MD - DSD
Focal length at wide end 2X Extender (Optional)
DSD
D18 - Sony type
D38 / D48 - Sony type

SDTV 1/3"

MODEL NAME	Th17×5BMD
Focal length	5–85mm
Zoom ratio	17 ×
Maximum relative aperture (F-No.)	1 : 1.4 (5–85mm)
Minimum object distance (M.O.D.) from front lens	0.9m
Object dimensions at M.O.D. (1×)	5mm 800 × 600mm
4 : 3 Aspect ratio	85mm 47 × 35mm
Angular field of view (1×)	5mm 51°17' × 39°36'
4 : 3 Aspect ratio	85mm 3°14' × 2°26'
Macro	Standard
Filter thread	M82×0.75
Size φ×Length	φ85×185.5mm
Mass (without lens hood)	1.3kg
Available model	Th17×5BMD
Appearance	

The captioned figures of length are applied to DSD type.

CONTROL ACCESSORIES



RMD-10

The RMD-10 provides push-button control over the zoom, focus and the iris. The iris can be controlled by auto or remote.



RMD-20

Zoom can be controlled by a rocker switch and the focus and the iris are operated by two control knobs. The iris can be controlled by auto or remote.



RMD-30

Features eight preset positions in addition to manual control of zoom and focus. The iris can be controlled by auto or remote.

OPTICAL ACCESSORIES

Optical accessories expand the capabilities of FUJIFILM 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.



Ratio Converter(RCV) 16:9 ↔ 4:3

- Converts the 4:3 image size of a 16:9 4:3 camera match that of a standard 2/3" 4:3 camera.
- Zooming possible.
- The F-No. on the master lens remains unchanged.
- M.O.D. is decreased.



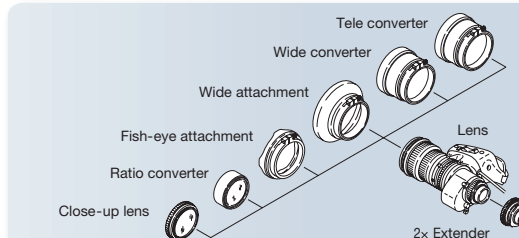
2x Extender (AE, SE)

- 2x 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.



Close-up Lens (HCL, ECL)

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



Front lens diameter

MODEL NAME	Magnification	Mass(kg)
TCV - H85	1.5 ×	1.10
TCV - H95		1.00
TCV - H100		1.00
TCV - H110		1.10
TCV - 85C	1.6 ×	1.15
TCV - 100C		1.06
WCV - X85	0.8 ×	0.75
WCV - H85		1.05
WCV - H95		1.00
WCV - H100	0.8 ×	1.05
WCV - H110		1.10
WCV - 52SC	0.75 ×	0.25
WCV - 65		0.35
WCV - 75D	0.8 ×	1.03
WCV - 80D		1.03
WCV - 85D		1.09
WCV - L85		0.57
WCV - 90D		1.01
WCV - 100D		1.09
WAT - H85	0.7 ×	0.36
WAT - H100		0.53
WAT - H110		0.59
WAT - 75C		0.47
WAT - 80C		0.48
WAT - 85C		0.55
WAT - 90C		0.49
WAT - 95SC		0.41
WAT - 100C		0.50
F - ATH85	0.57 ×	0.36
F - ATH100		0.63
F - ATH110		0.69
F - AT75C	0.55 ×	0.54
F - AT80C		0.55
F - AT85C		0.62
F - AT90C		0.56
F - AT95SC		0.48
F - AT100C		0.55
RCV-82SC	0.82 ×	0.25
AE20B - 2	2 ×	0.17
SE20B - 2		0.16
HAeE14 - 1	1.4 ×	0.30
Object Distance		
HCL - H8082SC	0.8m	
HCL - H8095SC		
HCL - H80107SC		
HCL - 80107NSC		
HCL - H5085	0.5m	
HCL - H50100		
HCL - H50110		
ECL - 8052	0.8m	
ECL - 8072		
ECL - 8077		
ECL - 8082		
ECL - 8095		

	A4×7.5 A8×12 S4×5.5 S8×8.8	S14×7.3 S16×7.3MD S16×7.3SDA	S12×7.5 S14×7.5	A14×8.5 A16×9.5 A16×9 S16×7 S16×6.7	XA16s×8 XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7	HA17×7.8 HA18×7.6 HA18×7.6 HA21×7.8 XA17×7.6 XS17×5.5 HS18×5.5 ZA17×7.6 XT17×4.5	A15×8 A17×7.8 A18×7.6 A17×9 A18×9 A19×8.7 A20×8.6 S16×7.3SD68 S17×6.6 S18×6.7 S19×6.5 S20×6.4	A13×6.3 S12×5 S13×4.6	A18×8.5	HA10×5.2 HA13×4.5 HA14×4.5 A10×4.8 XS13×3.3 ZA12×4.5	HA15×8 HA22×7.8 HA23×7.6 ZA22×7.6	A20×8.6 A23×7.6	A12×6.8	HA20×7.8	HA20×7.5 HA22×7.3	HA16×6.3 HS16×4.6
	M52×0.75	φ65	φ75	φ80	φ85				φ90	φ95	φ100			φ110		φ95
						●										●
											●			●	●	
							●	●				●	●			
					●											
						●										●
											●			●		
	●	●	●	●												
							●	●*1								
							●		●							
											●					
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									●							
												●*7				
												●				
			●													
				●												
							●									
									●							
												●*7				
												●				
	A			A			●*2*8	A	A			A	A			A
	S*3	S*3	S*3	S*3		A		S*3						A	A	A
										A	A					
						●*6										
												●*7				
														●*8		●
						●										
												●				
	●		●*4											●		
				●*5												
							●*6	●*6								
									●*7			●*7	●*7			●*9

A For 2/3" lens S For 1/2" lens

*1 : A shade may be generated at four corners on the image when WCV-85C is used with some kinds of camera. *2 : RCV-82SC is not available with 1/2" lens.

*3 : SE20B-2 is not available with Sony type lens. *4 : M72×0.75 *5 : M77×0.75 *6 : M82×0.75 *7 : M95×1 *8 : M107×1

*9 : WCV-L85 is not available with A18×7.6.

*10 : An attached ring (ECL-8095-R) is required to install a close-up lens. In this case, the lens hood has to be removed, and shading error may be generated at the wide side.

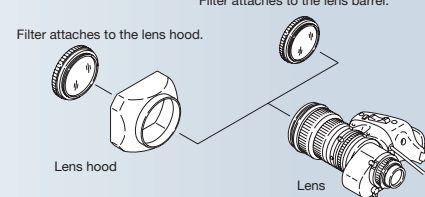
OPTICAL ACCESSORIES

Optical accessories expand the capabilities of FUJIFILM TV lenses.

Effects Filter

Optical accessories expand the capabilities of FUJIFILM TV lenses.

Effects Filter



Lens barrel filter thread size

Hood filter thread size

MODEL NAME

EFL - 77UV

EFL - 82UV

EFL - 95UV

EFL - 107UV

EFL - 127UV

EFL - 77SL

EFL - 82SL

EFL - 95SL

EFL - 107SL

EFL - 127SL

EFL - 77N2

EFL - 82N2

EFL - 95N2

EFL - 107N2

EFL - 127N2

EFL - 77N4

EFL - 82N4

EFL - 95N4

EFL - 107N4

EFL - 127N4

EFL - 77N8

EFL - 82N8

EFL - 95N8

EFL - 107N8

EFL - 127N8

EFL - 77CS

EFL - 82CS

EFL - 95CS

EFL - 107CS

EFL - 127CS

EFL - 77SN

EFL - 82SN

EFL - 95SN

EFL - 107SN

EFL - 127SN

EFL - 77SU

EFL - 82SU

EFL - 95SU

EFL - 107SU

EFL - 127SU

EFL - 77SF

EFL - 82SF

EFL - 95SF

EFL - 107SF

EFL - 127SF

EFL - 77PL

EFL - 82PL

EFL - 95PL

EFL - 107PLA

EFL - 127PL

UV Filter (UV)

- UV filter absorbs ultraviolet rays, cuts haze.
- No effect on exposure and color temperature.
- Protects front lens element of master lens.

Skylight Filter (SL)

- Skylight filter ideal for clear days reduces blue-green look in shadow areas.
- No effect on exposure and color temperature.
- Protect front lens element of master lens.

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.

Cross Filter

Cross filter is used to enhance the beauty of a shot by creating a "Cross" effect around a point of light or spectral highlight. Cross filter can produce from four to as many as sixteen star points and are commonly used in concerts or outdoor productions.

Cross Screen Filter (CS)

- 4 cross.

Snow Screen Filter (ND)

- 6 cross.

Sunny Cross Filter (CS)

- 8 cross.

Soft Focus Filter (SF)

- Soft focus filter produces an overall softness while creating a luminous glow to highlights.

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

	A14×8.5 A16×9.5 A16×9 S16×7 S16×6.7	HA17×7.8 HA18×7.6 HAs18×7.5 HA21×7.8 A17×7.8 A18×7.6 A18×9 A20×8.6	S13×4.6 S17×6.6 S18×6.7 S19×6.5 S20×6.4 XS17×5.5 XA17×7.6 XT17s×4.5 XT20s×4.7	XA16s×8 XA20s×8.5 Xs20s×6.3 XT17s×4.5 XT20s×4.7	A8.5×5.5 A12×6.8	HA14×8 A18×8.5	HA15×8 HA20×7.8 HA22×7.8 HA23×7.6 A20×8.6 A23×7.6 ZA22×7.6	HA20×7.5 A24×11.5 A24×16.5	HA10×5.2 HA10×5 HA13×4.5 HA14×4.5 HA22×7.3 A10×4.8 A13×4.5 XS13×3.3 ZA12×4.5	HA36×10.5 HA42×9.7 HA42×13.5 A36×10.5 A36×14.5 A42×9.7 A42×13.5	HA16×6.3 HS16×4.6	HA25×11.5 HA25×16.5
	M77×0.75	M82×0.75	M95×1	-	M95×1	M107×1	-	M127×0.75	-	M107×1		
	-	-	-	M95×1	M107×1	-	M127×0.75	-	M107×	M127×0.75		
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* An attached ring (EFL-107-R) is required to install a filter to the threaded lens barrel of the HA16×6.3 lens. In this case, the lens hood has to be removed.

REMOTE CONTROLLED PAN-TILT SYSTEM

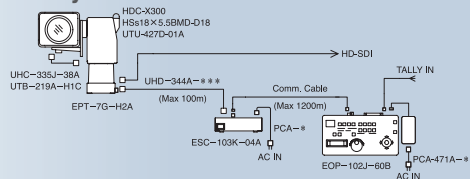
FUJIFILM remote controlled Pan-Tilt systems are suitable for broadcast production, conference, public security and other applications. The system consists of a main body, an operation unit and a power source unit. It can be installed at a very high level where shooting is difficult or on a place where fixed observation is needed, such as for surveillance. Remote control operation allows Pan and Tilt movement of the head and zoom, focus and iris operation of the lens. FUJIFILM's proprietary servo technology is fully implemented to preset the controls delivering high quality images.

High Grade Indoor

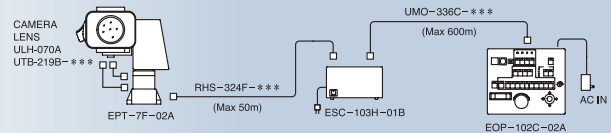
7 Series			
SYSTEM NAME	EPT-7G	EPT-7F	EPT-7D
Pan range	300°	330°	360°
Tilt range	±95°	±40°	±40°
Pan speed	25°/s	25°/s	30°/s
Tilt speed	20°/s	15°/s	20°/s
Speed ratio	1 : 40	1 : 100	1 : 1000
Stopping accuracy	±10'	±5'	±1'
Applicable lens	MD type	MD type RD type	MD type RD type
Acoustic noise level	NC40(15°/s)	NC30(10°/s)	NC30(20°/s)
Maximum cable length	1280m ^{*1}	650m ^{*1}	600m ^{*1}
Load capacity	4kg	4kg	15kg
Power consumption	DC15V, 30W	DC15V, 50W	AC100-240V, 50W
Size HxWxL	222 × 130 × 102mm	300 × 140 × 121mm	233 × 277 × 226mm
Mass	2.3kg	4.3kg	10kg

* 1 : Operation unit : The possible cable length between the Pan-Tilt heads.

7GA-A11a-4 System chart



7F1-A11a-0 System chart



For more information, please consult with your nearest FUJIFILM sales office.

Standard Indoor

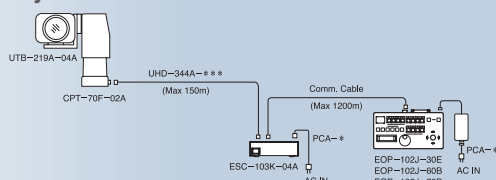
CPT-70 SYSTEM			
PAN-TILT HEAD MODEL NAME	CPT-70F-02A	CPT-70D-02A	
Pan range	300°	300°	
Tilt range	±95°	±95°	
Pan speed	25°/s	9°/s	
Tilt speed	20°/s	9°/s	
Speed ratio	1 : 40	1 : 30	
Stopping accuracy	±5'	±15'	
Applicable lens	MD type	MD type	
Acoustic noise level	NC40(15°/s)	NC40(9°/s)	
Maximum cable length	1350m ^{*1}	1350m ^{*1}	
Load capacity	4kg	10kg	
Power consumption	DC15V, 30W(MAX)	DC15V, 40W	
Size H × W × L	222 × 130 × 102mm	233 × 277 × 226mm	
Mass	2.2kg	7kg	
Applicable camera	Lightweight small-box camera	ENG style camera	

*1: Picture shows CPT-70F-02A with tally light unit (option).

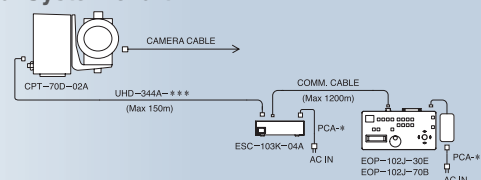
CPT-70 SYSTEM			
OPERATION UNIT MODEL NAME	EOP-102J-30E	EOP-102J-60B	EOP-102J-70B
Controllable function	Head	Pan, Tilt	Pan, Tilt
	Lens	Zoom, Focus, Iris	Zoom, Focus, Iris
Preset	8 shots	32 shots × 4 heads	32 shots × 4 heads
Size H × W × L	210 × 117 × 84mm	210 × 117 × 84mm	210 × 117 × 84mm
Mass	0.8kg*	0.8kg*	0.8kg*
Features	1 head control	4 heads control, Camera control	4 heads control

* : Excluding power supply.

S1-BA1 System chart



S1-A1a System chart



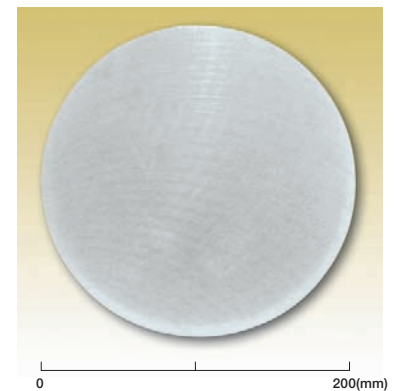
For more information, please consult with your nearest FUJIFILM sales office.

FUJIFILM TV LENS APPROACHES

In pursuit of extreme chromatic aberration reduction

Correction of chromatic aberration is one of the most important tasks in designing a zoom lens. Chromatic aberration is an aberration that is generated by differences in refractive index depending on wavelength of light. For lenses featuring long focal lengths or those offering wide focal lengths, it is more difficult to reduce chromatic aberration. Chromatic aberration is corrected by combining many types of optical glass each of which has a different optical performance. However, using this method, complete correction of chromatic aberration is not feasible. Lenses will typically still exhibit chromatic aberration of approximately 1/2000th of the focal length. For further correction, it is required to use an optical component which has a dispersing pattern different from that of conventional types of optical glass.

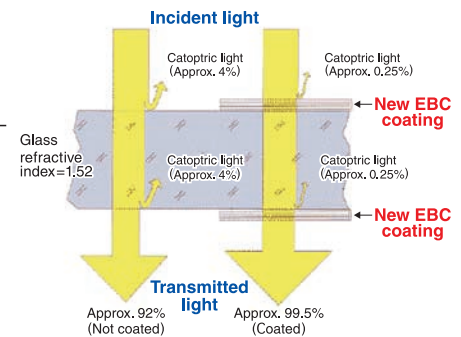
Such an optical component is crystal fluorite (CaF₂), which is not an amorphous material like glass. While fluorite is superior in optical properties, it is difficult to process. It is especially difficult to process fluorite into large-aperture lens elements which are used in broadcast zoom lenses. FUJIFILM's proprietary design technologies to optimally arrange optical components, the advanced processing technologies amassed through many years of experience and the manufacturing technologies that are held to uncompromising standards have allowed fluorite to be used in the broadcast zoom lenses. Combining the use of fluorite and the use of special highly-refractive, low-dispersion optical glass, we have succeeded in extreme chromatic aberration reduction throughout the whole zoom and focus range.



CaF₂ (Before polishing)

New EBC coating : Electron Beam Coating

Every Fujinon lens receives a multi-layer coating, called the "New EBC Coating." This coating of vaporized chemicals is deposited on the lens surface by an electron beam in a vacuum chamber and results in reduced reflection, greater transmittance as well as reduced flares and ghosts.



Ecological Design

Every FUJIFILM TV Lens product is designed to reduce the use of harmful and hazardous substances that could pollute the environment. Especially, optical glass containing harmful heavy metals such as lead, which are harmful to the environment. Previously, disposing of the excess glass materials produced when grinding lenses has been a major issue for optical manufactures. Furthermore, it has become more difficult to get such glass because of the growing concern for environmental protection in recent years. FUJIFILM is making environmental-friendly products by using "Ecological Glass", which does not contain heavy metals.

The Basic Policy for a Better Environment

"All employees, in every department, will try his or her best to make FUJIFILM products environmentally friendly."

ISO 9001

ISO 9001 series Certificates have been granted and we are continually working to obtain certificates for additional subsidiary companies.



ISO 14001

FUJIFILM has received ISO 14001 certification for high standards in continual environmental improvements.



FUJIFILM

Japan / North East Asia

FUJIFILM Corporation

Optical Device Business Div.

1-324 Uetake, Kita-ku, Saitama City, Saitama, 331-9624, Japan
TEL: +81 (0)48-668-2142 FAX: +81 (0)48-651-8517
<http://www.fujifilm.co.jp/>

North & Latin America

FUJIFILM North America Corporation

Optical Devices Division (Headquarters)

10 High Point Dr. Wayne, NJ 07470-7434, U.S.A.
TEL: +1-973-633-5600 FAX: +1-973-633-5216
<http://www.fujinon.com/>

West : California

West Bay Business Park 2621 Manhattan Beach Blvd.
Redondo Beach, CA 90278-1604, U.S.A.
TEL: +1-310-536-0800 FAX: +1-310-536-0022

West : Washington

P.O. Box 36, Mercer Island, WA 98040-0036, U.S.A.
TEL: +1-206-230-0237

South Central : Texas

18601 LBJ Freeway Suite 100 Mesquite, TX 75150-5600, U.S.A.
TEL: +1-972-385-8902 FAX: +1-972-392-3251

South East : Florida

4101 N 48th Terrace Hollywood FL, 33021-1752, U.S.A.
TEL: +1-954-966-0484 FAX: +1-954-966-1368

South East : Georgia

1231 Collier Road, Suite G Atlanta, GA 30318-2322, U.S.A.
TEL: +1-404-351-1470 FAX: +1-404-351-7035

Midwest : Illinois

655 Deerfield Road Ste. 100, #206, Deerfield, IL 60015-3241, U.S.A.
TEL: +1-847-945-8923 FAX: +1-847-945-8943

Latin America: Florida

TEL: +1-305-785-0421 FAX: +1-973-633-5216

Canada : Ontario

12 - 16715 Yonge St., Suite 203 Newmarket, Ontario L3X 1X4 Canada
TEL: +1-905-898-1382 FAX: +1-905-898-3350

Europe / Middle East / Africa

FUJINON (EUROPE) GmbH

Halskestrasse 4, 47877 Willich, Germany
TEL: +49-2154-924-253 FAX: +49-2154-924-259
<http://www.fujinon.de/>

FUJIFILM France S.A.S.

Etablissement de Montigny 43, avenue des 3 peuples
MONTIGNY-LE-BRETONNEUX 78185 ST-QUENTIN-EN-YVELINES CEDEX
TEL: +33-1-3930-1616 FAX: +33-1-3930-0248
<http://www.fujifilm.fr/>

FUJINON (EUROPE) GmbH Russian Branch

1st Magistralnyi tupik 5A Business Centre "Magistral Plaza" 4th floor c/o CJSC
(ZAO) Fujifilm-Ru 123290, Moscow, Russian Federation
TEL: +7-495-797-3512 FAX: +7-495-797-3513
<http://www.fujinon.ru>

FUJINON (EUROPE) GmbH Dubai Branch

P.O. BOX 18408 LOB 16, Room 419 Jubel Ali, Dubai, U.A.E.
TEL: +971-4-8873074 FAX: +971-4-8873053

China

FUJIFILM (China) Investment Co., Ltd.

Optical Device Headquarter

28F ONELUJIAZUI, No. 68 Yinchengzhong Rd,
Pudong New Area, Shanghai, China 200120
TEL: +86 (0)21-5010-6000 FAX: +86 (0)21-5010-6730
<http://www.fujinon.com.cn>

Beijing Office

Unit 1109, Beijing East Ocean Center 24A Jianguomenwai Avenue, Beijing,
China 100004
TEL: +86 (0)10-6515-5741 FAX: +86 (0)10-6515-5743

Shenzhen Office

Unit 8, Tianan gongye-qu, Nanshan, Shenzhen, China 518054
TEL: +86 (0)755-8146-0435 FAX: +86 (0)755-8146-0957

Hong Kong / Taiwan

FUJIFILM Hong Kong Limited

Optical Devices Business Division

Suites 2512-14, 25/F., Tower 6, The Gateway, Harbour City,
9 Canton Road, Tsimshatsui, Kowloon, Hong Kong
TEL: +852-2311-1228 FAX: +852-2724-1118
<http://www.fujinon.com.cn>

Southeast Asia & West Asia

FUJIFILM Regional Services (Singapore) Pte Ltd.

10 New Industrial Road, Fujifilm Building Singapore 536201
TEL: +65 (0)63805318 FAX: +65 (0)63835666
<http://www.fujinon.com.sg/>

Oceania

FUJIFILM Australia Pty Ltd.

114 Old Pittwater Road, Brookvale, N.S.W. 2100, Australia
TEL: +61 (0)2-9466-2790 FAX: +61 (0)2-9938-1975
<http://www.fujifilm.com.au/>

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For your safety

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

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