

FUJINON
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HD ENG Broadcast Lenses

SONY 1/2" XDCAM HD and PMW-EX3
compatible



HD
DIGITAL

DIGIPOWER

HS16x4.6BE RM



Zoom Ratio / Format	16X / 1/2"
Focal Length	4.6 to 74 mm (2X) 9.2 to 148 mm
Maximum Relative Aperture	1:1.4 (4.6 ~ 47 mm) 1:2.2 (74 mm)
Maximum Photometric Aperture T-No.	1:1.5 (4.6 ~ 47 mm) 1:2.4 (74 mm)
Angular Field of View	4.6 mm 74° 18' x 46° 09'
16:9 Aspect Ratio	74 mm 5° 24' x 3° 02'
M.O.D. from Front of Lens	0.40 m
Object Dimensions at M.O.D.	4.6 mm 710 x 399 mm 74 mm 44 x 25 mm
Filter Size	ø 107 mm P=1
Dia ø x Length (w/o Hood)	ø 95 x 240 mm
Weight (w/o Hood)	1.98 kg
Options	16 Bit Encoder
Features	Inner Focus/Quick Zoom/Zoom Limit
Notes:	Requires ACM-18 adaptor for use with Sony PMW-EX3

HS18x5.5BE RM/RD*



*RD contain servos for zoom and focus.

Zoom Ratio / Format	18X / 1/2"
Focal Length	5.5 to 100 mm (2X) 11 to 200 mm
Maximum Relative Aperture	1:1.4 (5.5 ~ 78 mm) 1:1.8 (100 mm)
Maximum Photometric Aperture T-No.	1:1.5 (5.5 ~ 78 mm) 1:1.9 (100 mm)
Angular Field of View	5.5 mm 64° 43' x 39° 14'
16:9 Aspect Ratio	100 mm 4° 00' x 2° 15'
M.O.D. from Front of Lens	0.60 m
Object Dimensions at M.O.D.	5.5 mm 741 x 417 mm 100 mm 41 x 23 mm
Filter Size	ø 82 mm P=0.75
Dia ø x Length (w/o Hood)	ø 85 x 206.6 mm
Weight (w/o Hood)	1.58 kg (RM) / 1.65 kg (RD)*
Options	16 Bit Encoder
Features	Inner Focus/Quick Zoom/Zoom Limit
Notes:	Requires ACM-18 adaptor for use with Sony PMW-EX3

HSs18x5.5B RM/RD*



*RD contain servos for zoom and focus.

Zoom Ratio / Format	18X / 1/2"
Focal Length	5.5 to 100 mm
Maximum Relative Aperture	1:1.4 (5.5 ~ 77 mm) 1:1.8 (100 mm)
Maximum Photometric Aperture T-No.	1:1.5 (5.5 ~ 77 mm) 1:1.9 (100 mm)
Angular Field of View	5.5 mm 64° 43' x 39° 14'
16:9 Aspect Ratio	100 mm 4° 00' x 2° 15'
M.O.D. from Front of Lens	0.60 m
Object Dimensions at M.O.D.	5.5 mm 741 x 417 mm 100 mm 43 x 24 mm
Filter Size	ø 82 mm P=0.75
Dia ø x Length (w/o Hood)	ø 85 x 206.6 mm
Weight (w/o Hood)	1.58 kg (RM) / 1.60 kg (RD)*
Options	16 Bit Encoder
Features	Inner Focus/Quick Zoom/Zoom Limit
Notes:	Requires ACM-18 adaptor for use with Sony PMW-EX3

XS13x3.3BRM



Zoom Ratio / Format	13X / 1/2"
Focal Length	3.3 to 43 mm
Maximum Relative Aperture	1:1.4 (3.3 ~ 32 mm) 1:1.9 (43 mm)
Maximum Photometric Aperture T-No.	1:1.5 (3.3 ~ 32 mm) 1:2.1 (43 mm)
Angular Field of View	3.3 mm 93° 07' x 61° 25'
16:9 Aspect Ratio	43 mm 9° 16' x 5° 13'
M.O.D. from Front of Lens	0.30 m
Object Dimensions at M.O.D.	3.3 mm 752 x 406 mm 43 mm 58 x 31 mm
Filter Size	ø 127 mm P=0.75
Dia ø x Length (w/o Hood)	ø 95 x 240.5 mm
Weight (w/o Hood)	1.93 kg
Options	16 Bit Encoder
Features	Inner Focus
Notes:	Requires ACM-18 adaptor for use with Sony PMW-EX3

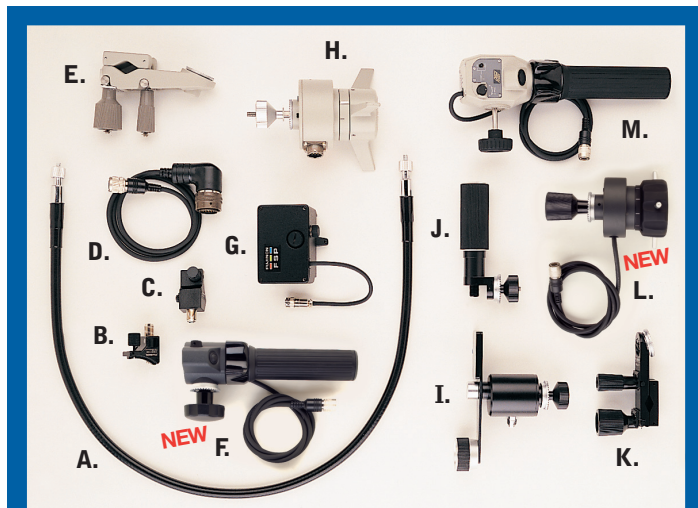
XS17x5.5BRM



Zoom Ratio / Format	17X / 1/2"
Focal Length	5.5 to 94 mm
Maximum Relative Aperture	1:1.4 (5.5 ~ 77 mm) 1:1.7 (94 mm)
Maximum Photometric Aperture T-No.	1:1.5 (5.5 ~ 77 mm) 1:1.8 (94 mm)
Angular Field of View	5.5 mm 64° 43' x 39° 14'
16:9 Aspect Ratio	94 mm 4° 15' x 2° 23'
M.O.D. from Front of Lens	0.60 m
Object Dimensions at M.O.D.	5.5 mm 741 x 417 mm 94 mm 41 x 23 mm
Filter Size	ø 82 mm P=0.75
Dia ø x Length (w/o Hood)	ø 85 x 206.6 mm
Weight (w/o Hood)	1.53 kg
Options	16 Bit Encoder
Features	Inner Focus
Notes:	Requires ACM-18 adaptor for use with Sony PMW-EX3

NOTE: All above lenses require ACM-18 adaptor for use with Sony PMW-EX3 camera

ACCESSORIES



- A. CFC-990 Flex Cable
- B. FMM-6B Focus Manual Module
- C. ZMM-6 Zoom Manual Module
- D. ESF-1 Focus Cable
- E. MCA-6 Mounting Clamp
- F. ERD-20A-A02 Zoom Demand
- G. FSP-13G Focus Positional Module
- H. EPD-4A-E02 Digi Focus Demand
- I. CZH-14 Zoom Handle
- J. CFH-11 Focus Handle
- K. MCA-7 Mounting Clamp
- L. EPD-21A-A01/A02 Focus Demand
- M. ERD-10A-D01 Digi Zoom Demand

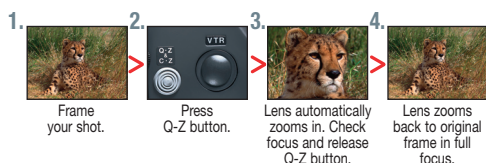
FEATURES

DIGIPOWER

In order to enhance the newest optical design technology, Fujinon has developed the digital servo control system DIGI POWER offering advanced performance of its zoom lenses. In addition to improved specification and performance, the utilization of digital circuitry in our DIGI POWER product line has made many new features available that were virtually impossible in the past. DIGI POWER lenses provide for vastly improved accuracy and repeatability over previous designs and enable custom control parameters to be memorized for individual camera operator's preferences. An optional 16 bit processor for zoom, focus and iris is available for applications requiring a high degree of accuracy.

QUICKZOOM

QUICKZOOM speed is 0.7 seconds from end to end. QUICKZOOM provides a rapid zoom movement to the telephoto position to check focus by the simple push of a button. Releasing the button returns the lens to the previously selected zoom position. Furthermore, by setting the switch, QUICKZOOM can be performed remotely from zoom rate demand units.



QuickZoom

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 (10-zoom mode on ENG/EFP) the user can select the most suitable fine touch. These zooming mode settings are ideal when switching between productions such as drama and sports.



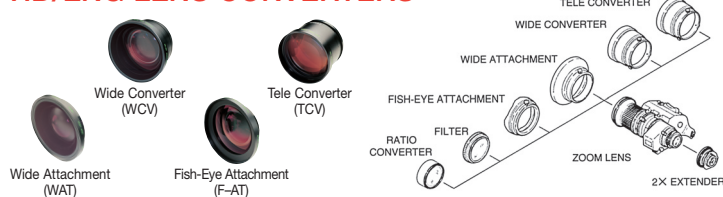
ZOOM LIMIT

The zoom limit function can be used in the servo operational mode. By using this function, the zoom movement toward both the wide side and the telephoto side can be limited. An override switch quickly returns the lens to normal mode.



Standard on DIGIPOWER ENG/EFP lenses

HD/ENG LENS CONVERTERS



Model	Type	ø Size	Converter*	Mag.	Converted Focal Length (mm)	M.O.D. (m)	Weight (kg)
XS17x5.5	TELE	85 mm	TCV-H85	1.5x	94.0→141.0	1.35	1.10
	WIDE	85 mm	WCV-H85	0.8x	5.5→4.4	0.38	1.05
	WIDE	85 mm	WAT-H85	0.7x	5.5→3.8	0.29	0.36
	FISHEYE	85 mm	F-ATH85	0.57x	5.5→3.1	0.19	0.36
HS18x5.5	TELE	85 mm	TCV-H85	1.5x	100.0→150.0	1.35	1.10
HSs18x5.5	WIDE	85 mm	WCV-H85	0.8x	5.5→4.4	0.38	1.05
	WIDE	85 mm	WAT-H85	0.7x	5.5→3.8	0.29	0.36
	FISHEYE	85 mm	F-ATH85	0.57x	5.5→3.1	0.19	0.36

*TCV/WCV are zoom thru type.

Wide attachment and fisheye attachment can be used at WIDE END. Number of M.O.D. is at wide end.

DIGI ZOOM DEMAND - ERD-10A-D01



(New Digital features only available on ERM/ERD-M/S)

AUTO-CRUISE ZOOM

Pressing the C-Z button while zooming will fix the zoom speed at the existing rate. Pressing the seesaw switch a second time slightly will return the zoom speed to normal.

Standard on DIGIPOWER ENG/EFP lenses

ZOOM MAXIMUM SPEED ADJUSTMENT

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



16 BIT ACCURACY FOR REMOTE CONTROL

Remote control of zoom, focus and iris for all DIGI POWER lenses is possible via 13 bit serial digital connection. Optional 16 bit processing is available for more accurate positioning in virtual studios and other applications.



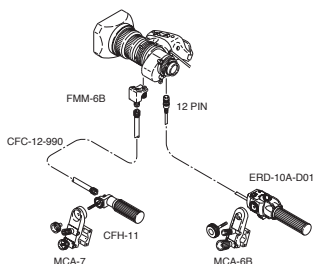
ACCESSORY COMPATIBILITY

Analog control accessories can be used with the DIGI POWER lens. (Some functions may be limited.)

DIGI POWER REAR CONTROL KITS

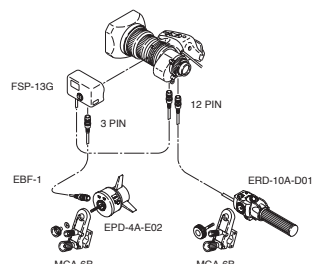
MS-11D Manual Focus/Servo Zoom

For use with RM/ZM type lenses.



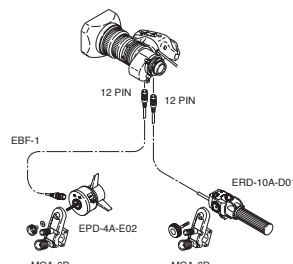
SS-11D Servo Focus/Servo Zoom

For use with RM/ZM type lenses.



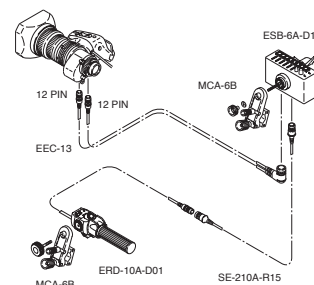
SS-13D Servo Focus/Servo Zoom

For use with RD/ZD type lenses.



SS-14S Servo Focus/Servo Zoom

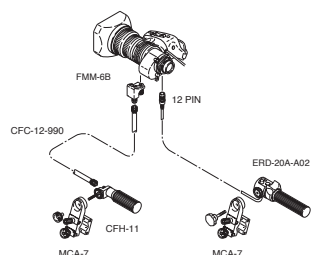
For use with RD/ZD type lenses.



STANDARD REAR CONTROL KITS

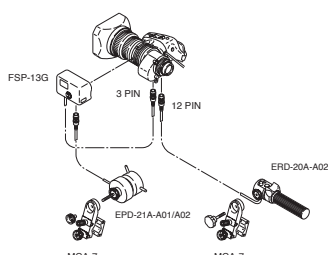
MS-11 Manual Focus/Servo Zoom

For use with RM/ZM type lenses.



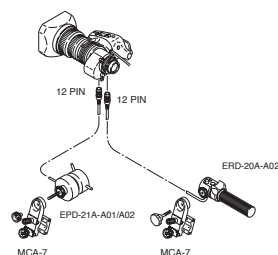
SS-11 Servo Focus/Servo Zoom

For use with RM/ZM type lenses.

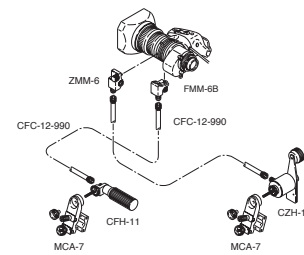


SS-13A Servo Focus/Servo Zoom

For use with RD/ZD type lenses.



MM-11 Manual Focus/Manual Zoom



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