

FUJINON



2006/2007 PRODUCT GUIDE



PF

Precision Focus

Perfectly Focused

NEW LENSES FOR 2006

PF



New

**Precision Focus
HA13x4.5BRD**



New

**2/3" HDTV ENG
HA16x6.3BE RM/RD**

PF



New

**Precision Focus
HA22x7.3BRD**



New

**1/2" HDTV ENG
HS16x4.6BERM**

PF



New

**Precision Focus
HA27x6.5BE SM**



New

**HDTV Field
XA66x9.3BE SM**



New

**HDTV Studio
HA27x6.5BE SM**

FUJINON

 **FUJIFILM**

TABLE OF CONTENTS

| | |
|----------------------------------|-------|
| HD & SD ENG Features | 4-5 |
| HD & SD Studio/Field Features | 6 |
| 24p/HD Digital Cine Lenses | 7-9 |
| PF Lenses | 10-12 |
| 1/2" HDTV ENG Lenses | 13 |
| 2/3" HDTV ENG Lenses | 14-17 |
| HDTV Studio Lenses | 18 |
| HDTV Field Lenses | 19-20 |
| SDTV ENG/EFP Broadcast Lenses | 21-23 |
| SDTV ENG/EFP Professional Lenses | 24-25 |
| HDTV Videoconferencing Lens | 26 |
| SDTV Videoconferencing Lenses | 27 |
| SDTV Studio Lenses | 28 |
| SDTV Field Lenses | 29 |
| Accessories | 30-38 |
| Pan & Tilt | 39-41 |

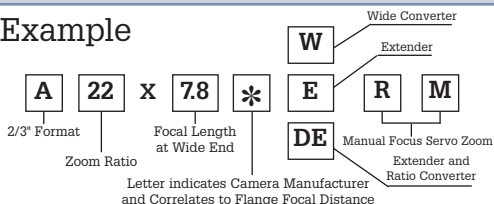
Prefix

| | |
|------------------|--|
| A | 2/3" FORMAT (ENG) |
| Ah | 2/3" FORMAT (EFP) |
| S | 1/2" FORMAT (ENG) |
| T | 1/3" FORMAT (ENG) |
| HA/XA | 2/3" FORMAT (High Definition) |
| HAc | 2/3" FORMAT (High Definition, Cine Compact Zoom) |
| HAe | 2/3" FORMAT (High Definition, Cine Super Zoom) |
| HAeF | 2/3" FORMAT (High Definition, Cine Super Prime) |
| HS/HSs/XS | 1/2" FORMAT (High Definition) |
| MA | 2/3" FORMAT (Macro Zoom) |
| MAF | 2/3" FORMAT (Macro Fixed Focal Length) |
| MS | 1/2" FORMAT (Macro Zoom) |
| MSF | 1/2" FORMAT (Macro Fixed Focal Length) |

Suffix

| | |
|-----------|--|
| MD | Motor Drive |
| RM | Manual Focus Servo Zoom |
| ZM | Manual Focus Servo Zoom with Quick Frame |
| RD | Full Servo (ENG Style) |
| ZD | Full Servo with Quick Frame |
| SM | Manual/Servo Module Interchangeable |

Example



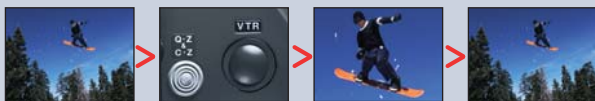
DIGIPOWER

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 0.6sec. / .07 sec.* 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.

* 0.6sec. : Studio and Field lens
0.7sec. : ENG/EFP lens



1. Frame your shot.

2. Press Q-Z button.

3. Lens automatically zooms in. Check focus and release Q-Z button.

4. Lens zooms back to original frame in full focus.

QuickZoom

QUICKZOOM solves the problem of having to reframe a shot after checking focus. This exclusive feature is a standard component on all of DIGI POWER lenses.

Utilizing the QUICKZOOM function can be an extremely time saving and productive production tool, by allowing a quick check if focus after a framed shot has been established. Simply press the Q-Z button and the lens zooms in tight at maximum speed, check focus and release the Q-Z button. The lens zooms out to the pre-selected shot automatically. No more guess work as to what the framed shot was prior to checking 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 (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 operation mode. By using this function, the zoom movement toward both the wide side and the telephoto side can be confined; therefore, zooming can be done

within the desired shot angles. This enables cameramen to operate the zoom switch without any hesitations or worries about shooting unnecessary areas.

Standard on: DIGI POWER Studio and Field lens, DIGIPOWER ENG / EFP lens

AUTO-CRUIISING 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: DIGI POWER Studio and Field lens, DIGIPOWER ENG / EFP lens



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.)

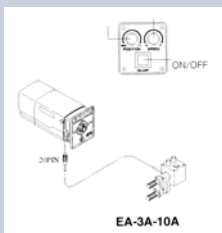
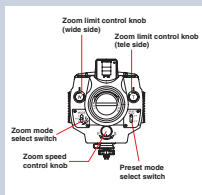
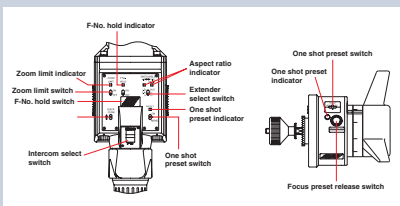


ONE SHOT PRESET

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.



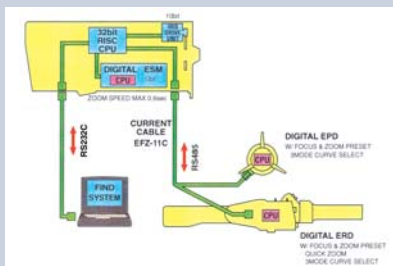
ADVANCED BACK FOCUS: REMOTE MACRO AND FOCUS FADER

This system allows macro shooting as close as 0.3m (0.05m on HA26x6.7) from the object. Focus fades are also possible at the wide side of the zoom range with the use of a simple remote control unit. Focus fader enhances the creative

possibilities of these lenses while adding a unique look to the production. Standard on DigiPower Field lenses and HA27x6.5.

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.



Find System

Fujinon has developed a self-diagnostic system to provide immediate analysis of the lens electronic systems. This system, called "Find" is available as option for all DIGI POWER lenses. Installing software for DIGI POWER in your PC allows a graphical user interface for lens history and diagnostic functions.

The image size of the 2/3" HD camera is 11mm diagonal, that is about 40% of that of a 35mm film format lens which is 27.26mm. The "CINE SUPER" series has been designed to have the same angular field of view as that of the more common 35mm film format lens so that cinematographers can easily adapt to the Digital Cinema format.

Super E Series Zoom



Lens Comparison for Cine Super E Zooms

| Cine Super E | Super 16 | Academy 35 |
|--------------|---------------|---------------|
| HAe3x5 | 6.6~19.8 mm | 12.4~37.1 mm |
| HAe5x6 | 7.9~39.7 mm | 14.9~74.3 mm |
| HAe10x10 | 13.2~132.3 mm | 24.6~247.5 mm |
| HAe12x9.5 | 12.6~150.8 mm | 23.5~282.2 mm |

Super E Series Prime



Lens Comparison for Cine Super E Primes

| Cine Super E | Super 16 | Academy 35 |
|--------------|----------|------------|
| HAeF5 | 6.6 mm | 12.4 mm |
| HAeF8 | 10.6 mm | 19.8 mm |
| HAeF10 | 11.6 mm | 24.8 mm |
| HAeF12 | 15.9 mm | 29.7 mm |
| HAeF16 | 21.2 mm | 39.6 mm |
| HAeF20 | 26.5 mm | 49.5 mm |
| HAeF34 | 45 mm | 84.2 mm |
| HAeF40 | 52.9 mm | 99 mm |
| HAeF54 | 71.43 mm | 133.7 mm |

Super Zoom



| LENS | HAe3x5 | HAe10x10 |
|-------------------------------------|---|---|
| Focal Length | 5.0 ~ 15mm | 10 ~ 100mm |
| Zoom Ratio / Format | 3X / 2/3" | 10X / 2/3" |
| Max. Photometric Aperture T No. | T1.6 | T1.8 |
| M.O.D. from Image Plane | 0.56m / 1.84ft. | 0.94m / 3.08ft. |
| Object Dimensions at Wide at M.O.D. | 5mm 541x304mm | 10mm 633x356mm |
| Object Dimensions at Tele at M.O.D. | 15mm 178x100mm | 100mm 65x37mm |
| Angular Field of View 16:9 | 5mm 87°36'x56°39' 15mm 35°27'x20°22' | 10mm 51°14'x30°10' 100mm 5°29'x3°05' |
| Focus Rotation | 280° | 280° |
| Zoom Rotation | 160° | 160° |
| Size ø x Length | ø 128x287mm | ø 128x302mm |
| Weight | 5kg | 5.8kg |

Super Zoom



| LENS | HAe5x6 | HAe12x9.5 |
|-------------------------------------|---|--|
| Focal Length | 6.0 ~ 30mm | 9.5 ~ 114mm |
| Zoom Ratio / Format | 5X / 2/3" | 12X / 2/3" |
| Max. Photometric Aperture T No. | T1.8 | T1.6 |
| M.O.D. from Image Plane | 0.56m / 1.84ft. | 1.2m / 3.94ft. |
| Object Dimensions at Wide at M.O.D. | 6mm 458x257mm | 9.5mm 861x484mm |
| Object Dimensions at Tele at M.O.D. | 30mm 92x51mm | 114mm 72x40mm |
| Angular Field of View 16:9 | 6mm 77°16'x48°23' 30mm 18°10'x10°16' | 9.5mm 53°34'x31°41' 114mm 4°49'x2°43' |
| Focus Rotation | 280° | 280° |
| Zoom Rotation | 160° | 160° |
| Size ø x Length | ø 128x277mm | ø 156x433.5mm |
| Weight | 4.7kg | 10kg |

Super Prime


| LENS | HAeF5 | HAeF8 | HAeF10 |
|---------------------------------|---------------|---------------|---------------|
| Format | 2/3" HD | 2/3" HD | 2/3" HD |
| Focal Length | 5mm | 8mm | 10mm |
| M.O.D. from Image Plane | 0.5m/1.64 ft | 0.4m/1.31 ft | 0.5m/1.64 ft |
| Max. Photometric Aperture T-No. | 1.7 | 1.5 | 1.5 |
| Object Dimensions at M.O.D. | 591x332mm | 288x162mm | 335x188mm |
| Angular Field of View 16:9 | 87°36'x56°39' | 61°52'x37°14' | 51°14'x30°10' |
| Filter Size | — | M86x1 | M86x1 |
| Focus Rotation | 280° | 280° | 280° |
| Size ø x Length | ø 95x180.5mm | ø 95 x144mm | ø 95 x144mm |
| Weight | 2.2kg | 1.6kg | 1.62kg |

Super Prime

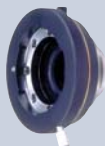

| LENS | HAeF12 | HAeF16 | HAeF20 |
|---------------------------------|---------------|---------------|---------------|
| Format | 2/3" HD | 2/3" HD | 2/3" HD |
| Focal Length | 12mm | 16mm | 20mm |
| M.O.D. from Image Plane | 0.4m/1.31 ft | 0.4m/1.31 ft | 0.45m/1.48 ft |
| Max. Photometric Aperture T-No. | 1.5 | 1.5 | 1.5 |
| Object Dimensions at M.O.D. | 220x124mm | 175x98mm | 165x93mm |
| Angular Field of View | 43°34'x25°19' | 33°22'x19°07' | 26°58'x15°21' |
| Filter Size | M86x1 | M86x1 | M86x1 |
| Focus Rotation | 280° | 280° | 280° |
| Size ø x Length | ø 95x144mm | ø 95 x144mm | ø 95x144mm |
| Weight | 1.65kg | 1.6kg | 1.6kg |

Super Prime


| LENS | HAeF34 | HAeF40 | HAeF54 |
|---------------------------------|--------------|--------------|--------------|
| Format | 2/3" HD | 2/3" HD | 2/3" HD |
| Focal Length | 34mm | 40mm | 54mm |
| M.O.D. from Image Plane | 0.4m/1.31 ft | 0.5m/1.64 ft | 0.6m/1.97 ft |
| Max. Photometric Aperture T-No. | 1.5 | 1.5 | 1.6 |
| Object Dimensions at M.O.D. | 83x47mm | 99x56mm | 92x52mm |
| Angular Field of View | 16°03'x9°04' | 13°40'x7°42' | 10°09'x5°43' |
| Filter Size | M86x1 | M86x1 | M86x1 |
| Focus Rotation | 280° | 280° | 280° |
| Size ø x Length | ø 95 x144mm | ø 95 x144mm | ø 95 x144mm |
| Weight | 1.65kg | 1.65kg | 1.65kg |

**HAeE14-1
1.4x Range Extender**

Provides 1.4 times magnification for added versatility when used with Prime lenses.



The compact “C” series provides the versatility of a zoom lens with features more often associated with film lenses. Focus rotation of 280 degrees, reduced focus breathing and improved flair characteristics make these lenses an attractive choice for any production.

Compact C Series Zoom



Lens Comparison for Cine Compact C Zooms

| Cine Compact C | Super 16 | Academy 35 |
|----------------|--------------|---------------|
| HAc13x4.5B | 5.6~78 mm | 11.1~146 mm |
| HAc15x7.3B | 9.7~145.5 mm | 18.1~272.3 mm |
| HAc18x7.6B | 8.8~158 mm | 18.8~339 mm |

Zoom



| | |
|---------------------------------|---|
| LENS | HAc13x4.5B |
| Zoom Ratio / Format | 13X / 2/3" HD |
| Focal Length | 4.5 – 59mm |
| M.O.D. from Image Plane | 0.59m/1.92 ft |
| Max. Photometric Aperture T-No. | 2 (4.5-39.2mm) 2.9 (59mm) |
| Object Dimensions at M.O.D. | 4.5mm 757x425mm 59mm 56x31mm |
| Angular Field of View | 4.5mm 93°38'x61°50' 59mm 9°18'x5°14' |
| Filter Size | — |
| Focus Rotation | 280.0° |
| Size ø x Length | ø 95x238.5mm |
| Weight | 1.7kg |

Zoom



| | | |
|---------------------------------|--|--|
| LENS | HAc15x7.3B | HAc18x7.6B |
| Zoom Ratio / Format | 15X / 2/3" HD | 18X / 2/3" HD |
| Focal Length | 7.3 – 110mm | 7.6 – 137mm |
| M.O.D. from Image Plane | 1.18m/3.87 ft | .87m/2.85 ft |
| Max. Photometric Aperture T-No. | 2 (7.3 – 110mm) | 1.9 (7.6 – 105mm) 2.6 (137mm) |
| Object Dimensions at M.O.D. | 7.3mm 1222x687mm 110mm 79x44mm | 7.6mm 738x415mm 137mm 41x23mm |
| Angular Field of View | 7.3mm 66°36'x40°32' 110mm 5°00'x2°48' | 7.6mm 64°30'x39°03' 137mm 4°01'x2°15' |
| Filter Size | — | — |
| Focus Rotation | 280° | 280° |
| Size ø x Length | ø 110x287.3mm | ø 85x204mm |
| Weight | 2.9kg | 1.6kg |



PF-BUILT-IN LENSES

Fujinon's Precision Focus Assist enables camera operators the ability to ensure fast accurate focusing of high definition images under varying conditions.

The PF system is the first to incorporate Fujinon's patented system which utilizes a unique contrast method of achieving precise focus.

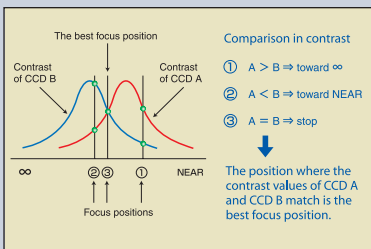


FEATURES AND FUNCTIONS

Contrast focusing method

The Precision Focus System adopts a contrast method that utilizes differences in optical path length. It can instantly focus the image without searching for focus and can maintain precise focus even when following moving objects.

CCD A and CCD B are built into the lens barrel to detect the focusing conditions and are positioned at equal distances before and after the camera image-forming plane.



Can be mounted on any 2/3" camera

The PF function is built into the lens and can be operational with the lens mounted on a 2/3" camera with no additional settings or optional devices. (On lens mounting, the focus area is initially fixed in the central area of the screen.)

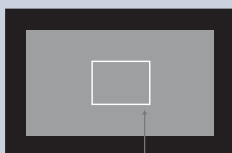
Focus mode selection

The momentary mode provides for PF function only when pressing the button or the continuous mode may be selected for continuous PF function. These two modes of operation provide precise focusing according to the shooting situation, whether a still or moving image.

Focus area setting

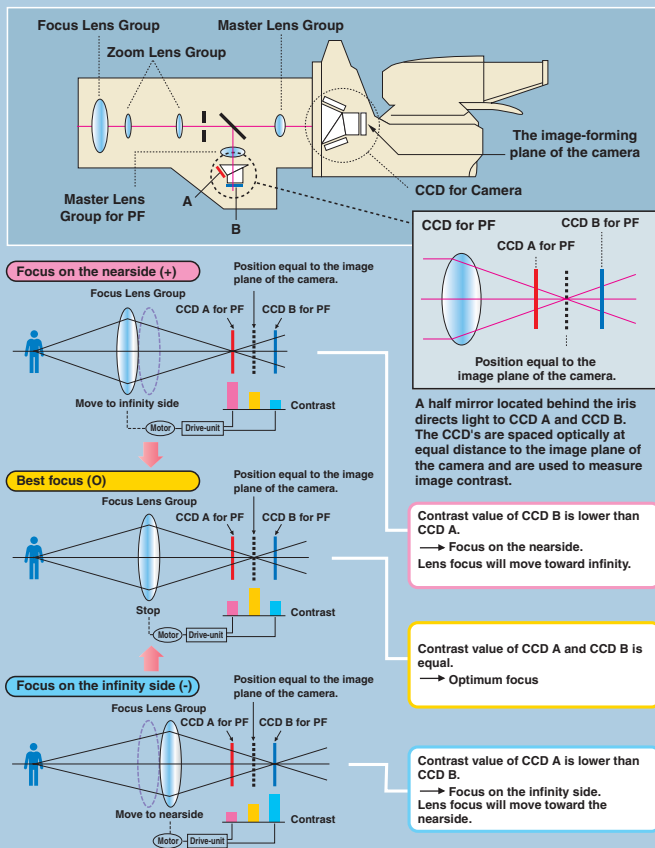
When the PF lens is mounted on a camera, a focus area is shown on the viewfinder. The size and the position of the focus area can be changed at the camera operator's discretion. This function allows greater flexibility in the selection of the focus area depending on the type of production.

Camera viewfinder image



User selectable

Fujinon's exclusive Precision Focus Assist is now in the third generation and features improved focusing response, lower light loss and reduced size. The PF system is the only focusing system that can maintain focus at any zoom position from the narrowest to the widest angle.



Reducing camera operator's burden

The PF assistance system constantly provides precise focusing when it is difficult to see whether the viewfinder image is in perfect focus. The operator can concentrate on framing the shot, knowing that the subject will be in perfect focus. It is especially effective when focusing is difficult, as when the camera is in a very low or a high position.




HA13x4.5BRD
HA22x7.3BRD

| LENS | HA13x4.5BRD | HA22x7.3BRD |
|------------------------------------|---|---|
| Zoom Ratio / Format | 13X / 2/3" | 22X / 2/3" |
| Focal Length | 4.5 to 59 mm | 7.3 to 161 mm |
| Maximum Relative Aperture | 1:1.8 (4.5 ~ 41 mm) | 1:1.9 (7.3 ~ 113 mm) |
| Maximum Photometric Aperture T-No. | 1:2.6 (59 mm) | 1:2.7 (161 mm) |
| Angular Field of View | 4.5 mm 93° 38' x 61° 50' | 7.3 mm 66° 36' x 40° 32' |
| 16:9 Aspect Ratio | 59 mm 9° 18' x 5° 14' | 161 mm 3° 25' x 1° 55' |
| M.O.D. from Image Plane | 0.30 m | 0.85 m |
| Object Dimensions at M.O.D. | 4.5 mm 757 x 425 mm 59 mm 55 x 31 mm | 7.3 mm 1222 x 687 mm 161 mm 55 x 31 mm |
| Dia ø x Length (w/o Hood) | ø95 x 256.1 mm | ø110 x 300.2 mm |
| Weight (w/o Hood) | 2.7kg | 3.9kg |
| Options | 16 Bit Encoder | 16 Bit Encoder |
| Features | Inner Focus, Zoom Limit | |


HA27x6.5BE SM

| LENS | HA27x6.5BE SM |
|--|--|
| Zoom Ratio / Format | 27X / 2/3" |
| Focal Length | 6.5 ~ 180 mm (2X) 13 ~ 360 mm |
| Maximum Relative Aperture | 1:1.5 (6.5 ~ 123 mm) 1:2.2 (180 mm) |
| Maximum Photometric Aperture T-No. | 1:1.9 (7.2 ~ 149 mm) 1:2.0 (158 mm) |
| Angular Field of View (Hor. x Vert. in °) | 6.5 mm 72° 50' x 45° 02' |
| 16:9 Aspect Ratio | 180 mm 3° 03' x 1° 43' (2X) 13 mm 40° 30' x 23° 25' 360 mm 1° 32' x 0° 51' |
| M.O.D. from Front of Lens | 0.6 m |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) | 6.5 mm 1053 x 592 mm 180 mm 39 x 22 mm (2X) 13 mm 527 x 296 mm |
| 16:9 Aspect Ratio | 360 mm 20 x 21 mm |
| Size (HxWxL) | 228 x 231 x 588 mm |
| Weight (w/o Hood) | 21.5 kg |


XA101x8.9BE SM

| LENS | XA101x8.9BE SM |
|--|---|
| Zoom Ratio / Format | 101X / 2/3" |
| Focal Length | 8.9 ~ 900 mm (2X) 17.8 ~ 1800 mm |
| Maximum Relative Aperture | 1:1.7 (8.9 ~ 291 mm) 1:4.7 (900 mm) |
| Maximum Photometric Aperture T-No. | 1:2.1 (8.9 ~ 291 mm) 1:5.8 (900 mm) |
| Angular Field of View (Hor. x Vert. in °) | 8.9 mm 56° 38' x 33° 42' |
| 16:9 Aspect Ratio | 900 mm 0° 37' x 0° 21' (2X) 17.8 mm 30° 09' x 17° 13' 1800 mm 0° 18' x 0° 10' |
| M.O.D. from Front of Lens | 2.9 m |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) | 8.9 mm 2865 x 1610 mm 900 mm 28 x 16 mm (2X) 17.8 mm 1433 x 805 mm |
| 16:9 Aspect Ratio | 1800 mm 14 x 8 mm |
| Size (HxWxL) | 252 x 252 x 720 mm |
| Weight (w/o Hood) | 24.7 kg |

The introduction of HD cameras utilizing the 1/2 inch imager brought on the need for high quality 1/2 inch HD lenses for News and Production applications. Fujinon has introduced the HS16x4.6BERM-M38, a versatile performer that combines wide angle, 16X zoom range plus a 2X extender and the HSs18x5.5BRM/BRD featuring an 18X zoom range. Both lenses utilize Fujinon's exclusive DigiPower servo system for precise control over zoom functions.

**DIGI
POWER**
QuickZoom



New

HS16x4.6BERM

| | |
|-----------------------------|---|
| Zoom Ratio / Format | 16X / 1/2" |
| Focal Length | 4.6 to 74 mm |
| Maximum Relative Aperture | 1:1.4 (4.6 ~ 47 mm) |
| | 1:2.2 (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) | ø107 x 240 mm |
| Weight (w/o Hood) | 1.98 kg |
| Options | 16 Bit Encoder |
| Features | Inner Focus/Quick Zoom/Zoom Limit |

**DIGI
POWER**
QuickZoom



HSs18x5.5B RM/RD*

| | |
|-----------------------------|--|
| 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) |
| 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 | 0.6 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) | ø85 x 206.6 mm |
| Weight (w/o Hood) | 1.6 kg |
| Options | 16 Bit Encoder |
| Features | Inner Focus/Quick Zoom/Zoom Limit |

*RD contain servos for zoom and focus.

HD ENG style lenses for the 2/3 inch format are the mainstay in HDTV production and Fujinon offers the broadest range of lenses available. From the widest angle HA13x4.5BE RM/RD to the extreme telephoto HA42x13.5 BE RD there is a Fujinon product to cover every production application.

The introduction of the new HA16x6.3BE RM/RD brings about a new era of lenses that combine both wide angle and a high magnification in one versatile package.

DIGI POWER
WIDE POWER
QuickZoom



HA13x4.5BE RM/RD*

| | | |
|------------------------------------|--|-------------------|
| Zoom Ratio / Format | 13X / 2/3" | |
| Focal Length | 4.5 to 59 mm | |
| Extender | (2X) 9 to 118 mm | |
| Maximum Relative Aperture | 1:1.8 (4.5 ~ 39.2 mm) | |
| | 1:2.6 (59 mm) | |
| Maximum Photometric Aperture T-No. | 1:2.0 (4.5 ~ 39.2 mm) | |
| | 1:2.9 (59 mm) | |
| Angular Field of View | 4.5 mm | 93° 38' x 61° 50' |
| 16:9 Aspect Ratio | 59 mm | 9° 18' x 5° 14' |
| | (2X) 9 mm | 56° 06' x 33° 20' |
| | 118 mm | 4° 39' x 2° 37' |
| M.O.D. from Image Plane | 0.59 m | |
| Object Dimensions at M.O.D. | 4.5 mm | 750 x 422 mm |
| | 59 mm | 55 x 31 mm |
| | (2X) 9 mm | 369 x 207 mm |
| | 118 mm | 28 x 16 mm |
| Filter Size | ø 127 mm P=0.75 (In Hood) | |
| Dia ø x Length (w/o Hood) | ø95 x 238.5 mm | |
| Weight (w/o Hood) | 1.88 kg / 1.95 kg* | |
| Options | Quick Frame / Ratio Converter / 16 Bit Encoder | |
| Features | Inner Focus / Zoom Limit / Quick Zoom | |

DIGI POWER
WIDE POWER
QuickZoom



HA16x6.3BE RM/RD*

| | | |
|------------------------------------|---------------------------------------|-------------------|
| Zoom Ratio / Format | 16X / 2/3" | |
| Focal Length | 6.3 to 101 mm | |
| Extender | (2X) 12.6 to 202 mm | |
| Maximum Relative Aperture | 1:1.8 (6.3 ~ 63 mm) | |
| | 1:2.9 (101 mm) | |
| Maximum Photometric Aperture T-No. | 1:1.9 (6.3 ~ 63 mm) | |
| | 1:3.1 (101 mm) | |
| Angular Field of View | 6.3 mm | 74° 33' x 46° 19' |
| 16:9 Aspect Ratio | 101 mm | 4° 00' x 3° 03' |
| | (2X) 12.6 mm | 41° 40' x 24° 09' |
| | 202 mm | 2° 43' x 1° 32' |
| M.O.D. from Image Plane | 0.4 m | |
| Object Dimensions at M.O.D. | 6.3 mm | 712 x 400 mm |
| | 101 mm | 45 x 25 mm |
| | (2X) 12.6 mm | 356 x 200 mm |
| | 202 mm | 22 x 13 mm |
| Filter Size | ø 107 mm P=0.75 (In Hood) | |
| Dia ø x Length (w/o Hood) | ø95 x 238.5 mm | |
| Weight (w/o Hood) | 1.98 kg / 2.05 kg* | |
| Options | Quick Frame / 16 Bit Encoder | |
| Features | Inner Focus / Zoom Limit / Quick Zoom | |

*RD contain servos for zoom and focus.

HA18x7.6BE RM/RD*



| | | |
|------------------------------------|--|-------------------|
| Zoom Ratio / Format | 18X / 2/3" | |
| Focal Length | 7.6 to 137 mm | |
| Extender | (2X) 15.2 to 274 mm | |
| Maximum Relative Aperture | 1:1.8 (7.6 ~ 105 mm) | |
| | 1:2.4 (137 mm) | |
| Maximum Photometric Aperture T-No. | 1:1.9 (7.6 ~ 105 mm) | |
| | 1:2.6 (137 mm) | |
| Angular Field of View | 7.6 mm | 64° 30' x 39° 03' |
| 16:9 Aspect Ratio | 137 mm | 4° 01' x 2° 15' |
| (2X) | 15.2 mm | 35° 01' x 20° 07' |
| | 274 mm | 2° 00' x 1° 08' |
| M.O.D. from Image Plane | 0.87 m | |
| Object Dimensions at M.O.D. | 7.6 mm | 738 x 415 mm |
| | 137 mm | 41 x 23 mm |
| (2X) | 15.2 mm | 369 x 207 mm |
| | 274 mm | 21 x 12 mm |
| Filter Size | ø 82 mm P=0.75 (On Barrel) | |
| Dia ø x Length (w/o Hood) | ø85 x 204 mm | |
| Weight (w/o Hood) | 1.58 kg / 1.65 kg* | |
| Options | Quick Frame / Ratio Converter/16 Bit Encoder | |
| Features | Inner Focus/Zoom Limit/Quick Zoom | |

HAs18x7.6B RM/RD*



| | | |
|-----------------------------|----------------------|-------------------|
| LENS | HAs18x7.6B RM/RD* | |
| Zoom Ratio / Format | 18X / 2/3" | |
| Focal Length | 7.6 to 137 mm | |
| Maximum Relative Aperture | 1:1.8 (7.6 ~ 103 mm) | |
| | 1:2.4 (137 mm) | |
| Angular Field of View | 7.6 mm | 64° 30' x 39° 03' |
| 16:9 Aspect Ratio | 137 mm | 4° 01' x 2° 15' |
| M.O.D. from Front of Lens | 0.6 m | |
| Object Dimensions at M.O.D. | 7.6 mm | 738 x 415 mm |
| | 137 mm | 41 x 23 mm |
| Filter Size | ø 82 mm P=0.75 | |
| Dia ø x Length (w/o Hood) | ø85 x 204 mm | |
| Weight (w/o Hood) | 1.26 kg / 1.33 kg* | |
| Options | 16 Bit Encoder | |
| Features | Inner Focus | |

HA22x7.3BE RM/RD*



| | | |
|------------------------------------|--|-------------------|
| Zoom Ratio/Format | 22X / 2/3" | |
| Focal Length | 7.3 to 161 mm | |
| Extender | (2X) 14.6 to 322 mm | |
| Maximum Relative Aperture | 1:1.9 (7.3 ~ 113mm) | |
| | 1:2.7 (161 mm) | |
| Maximum Photometric Aperture T-No. | 1:2.0 (7.3 ~ 113mm) | |
| | 1:2.9 (161 mm) | |
| Angular Field of View | 7.3 mm | 66° 36' x 40° 32' |
| 16:9 Aspect Ratio | 161 mm | 3° 25' x 1° 55' |
| (2X) | 14.6 mm | 36° 22' x 20° 55' |
| | 322 mm | 1° 42' x 0° 58' |
| M.O.D. from Image Plane | 1.18m | |
| Object Dimensions at M.O.D. | 7.3 mm | 1222 x 687 mm |
| | 161 mm | 55 x 31 mm |
| (2X) | 14.6 mm | 609 x 342 mm |
| | 322 mm | 28 x 16 mm |
| Filter Size | ø 127 mm P=0.75 (On Hood) | |
| Dia ø x Length (w/o Hood) | ø110 x 287.3 mm | |
| Weight (w/o Hood) | 3.15 kg / 3.22 kg* | |
| Options | Quick Frame / Ratio Converter/16 Bit Encoder | |
| Features | Inner Focus/Quick Zoom / Zoom Limit | |

*RD contain servos for zoom and focus.

HA22x7.8BE RM/RD*

QuickZoom


| | | |
|------------------------------------|--|-------------------|
| Zoom Ratio/Format | 22X / 2/3" | |
| Focal Length | 7.8 to 172 mm | |
| Extender | (2X) 15.6 to 344 mm | |
| Maximum Relative Aperture | 1:1.8 (7.8 ~ 122mm) | |
| Aperture | 1:2.5 (172 mm) | |
| Maximum Photometric Aperture T-No. | 1:1.9 (7.8 ~ 124 mm) | |
| Aperture T-No. | 1:2.7 (172 mm) | |
| Angular Field of View | 7.8 mm | 63° 10' x 38° 07' |
| 16:9 Aspect Ratio | 172 mm | 3° 12' x 1° 48' |
| (2X) | 15.6 mm | 34° 10' x 19° 36' |
| | 344 mm | 1° 36' x 0° 54' |
| M.O.D. from Image Plane | 1.07m | |
| Object Dimensions at M.O.D. | 7.8 mm | 936 x 526 mm |
| | 172 mm | 43 x 24 mm |
| (2X) | 15.6 mm | 468 x 263 mm |
| | 344 mm | 21 x 12 mm |
| Filter Size | ø 95 mm (On Barrel) / ø 107 mm P=1 (On Hood) | |
| Dia ø x Length (w/o Hood) | ø100 x 218.6 mm | |
| Weight (w/o Hood) | 1.78 kg / 1.85 kg* | |
| Options | Quick Frame / Ratio Converter / 16 Bit Encoder | |
| Features | Inner Focus / Quick Zoom / Zoom Limit | |

HA25x11.5BE RD*

QuickZoom


| | | |
|------------------------------------|--|-------------------|
| Zoom Ratio/Format | 25X / 2/3" | |
| Focal Length | 11.5 to 288 mm | |
| Extender | (2X) 23 to 576 mm | |
| Maximum Relative Aperture | 1:2.0 (11.5 ~ 206mm) | |
| Aperture | 1:2.8 (288 mm) | |
| Maximum Photometric Aperture T-No. | 1:2.1 (11.5 ~ 206mm) | |
| Aperture T-No. | 1:2.9 (288 mm) | |
| Angular Field of View | 11.5 mm | 45° 16' x 26° 23' |
| 16:9 Aspect Ratio | 288 mm | 1° 54' x 1° 04' |
| (2X) | 23 mm | 23° 33' x 13° 22' |
| | 576 mm | 0° 57' x 0° 32' |
| M.O.D. from Image Plane | 2.5m | |
| Object Dimensions at M.O.D. | 11.5 mm | 1740 x 978 mm |
| | 288 mm | 70 x 39 mm |
| (2X) | 23 mm | 870 x 489 mm |
| | 576 mm | 35 x 20 mm |
| Filter Size | ø 107m (On Barrel) | |
| Dia ø x Length (w/o Hood) | ø110 x 265 mm | |
| Weight (w/o Hood) | 2.8 kg | |
| Features | Inner Focus / Quick Zoom / Inner Focus | |

HA25x16.5BE RD*

QuickZoom


| | | |
|------------------------------------|-------------------------|-------------------|
| Zoom Ratio / Format | 25X / 2/3" | |
| Focal Length | 16.5 to 413 mm | |
| Extender | (2X) 33 to 826 mm | |
| Maximum Relative Aperture | 1:2.8 (16.5 ~ 289mm) | |
| Aperture | 1:4.0 (413 mm) | |
| Maximum Photometric Aperture T-No. | 1:2.9 (16.5 ~ 289 mm) | |
| Aperture T-No. | 1:4.2 (413 mm) | |
| Angular Field of View | 16.5 mm | 32° 25' x 18° 33' |
| 16:9 Aspect Ratio | 413 mm | 1° 20' x 0° 45' |
| (2X) | 33 mm | 16° 32' x 9° 20' |
| | 826 mm | 0° 40' x 0° 22' |
| M.O.D. from Image Plane | 2.5m | |
| Object Dimensions at M.O.D. | 16.5 mm | 1213 x 682 mm |
| | 413 mm | 49 x 27 mm |
| (2X) | 33 mm | 606 x 341 mm |
| | 826 mm | 24 x 14 mm |
| Filter Size | ø 107m | |
| Dia ø x Length (w/o Hood) | ø110 x 278 mm | |
| Weight (w/o Hood) | 2.9 kg | |
| Features | Quick Zoom / Zoom Limit | |


OS-TECH 


HA42x9.7BE RD

| | |
|--|--|
| Zoom Ratio / Format | 42X / 2/3" |
| Focal Length | 9.7 ~ 410 mm |
| Extender | (2X) 19.4 ~ 820 mm |
| Maximum Relative Aperture | 1:2.0 (9.7 ~ 225 mm) 1:3.7 (410 mm) |
| Maximum Photometric Aperture T-No. | 1:2.2 (9.7 ~ 225 mm) 1:4.0 (410 mm) |
| Angular Field of View 16:9 Aspect Ratio | 9.7 mm 52° 37' x 31° 03' 410 mm 1° 20' x 0° 45' (2X) 19.4 mm 27° 46' x 15° 49' 820 mm 0° 40' x 0° 23' |
| M.O.D. from Image Plane | 3.2 m |
| Object Dimensions at M.O.D. | 9.7 mm 2619 x 1472 mm 410 mm 64 x 36 mm (2X) 19.4 mm 1339 x 753 mm 820 mm 33 x 19 mm |
| Filter Size | ø 127 mm P=0.75 (On Barrel) |
| Dia ø x Length (w/o Hood) | ø130 x 338.5 mm |
| Weight (w/o Hood) | 5.3 kg |
| Options | Built In OS-TECH |
| Features | Inner Focus / Zoom Limit / Built In OS-TECH / Quick Zoom |


OS-TECH 

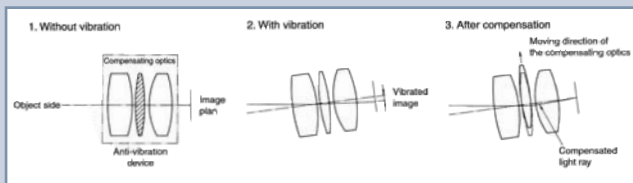

HA42x13.5BE RD

| | |
|--|--|
| Zoom Ratio / Format | 42X / 2/3" |
| Focal Length | 13.5 ~ 570 mm |
| Extender | (2X) 27 ~ 1140 mm |
| Maximum Relative Aperture | 1:2.8 (13.5 ~ 307 mm) 1:5.2 (570 mm) |
| Maximum Photometric Aperture T-No. | 1:3.0 (13.5 ~ 307 mm) 1:5.6 (570 mm) |
| Angular Field of View 16:9 Aspect Ratio | 13.5 mm 39° 07' x 22° 35' 570 mm 0° 58' x 0° 33' (2X) 27 mm 20° 08' x 11° 24' 1140 mm 0° 29' x 0° 16' |
| M.O.D. from Image Plane | 3.2 m |
| Object Dimensions at M.O.D. | 13.5 mm 1888 x 1061 mm 570 mm 45 x 25 mm (2X) 27 mm 944 x 530 mm 1140 mm 22 x 13 mm |
| Filter Size | ø 127 mm P=0.75 (On Barrel) |
| Dia ø x Length (w/o Hood) | ø130 x 358.5 mm |
| Weight (w/o Hood) | 5.4 kg |
| Options | Built In OS-TECH |
| Features | Inner Focus / Zoom Limit / Built In OS-TECH / Quick Zoom |

*RD contain servos for zoom and focus.

OS-TECH

The HA42x9.7 and HA42x13.5 are equipped with Fujinon's built-in optical stabilization technology (OS-TECH). This feature optically compensates for image vibration as shown below.



Studio lenses are essential for applications requiring the ultimate in control and optical quality. New for 2006 is the HA27X6.5BE SM featuring sharp images to the corners of the picture, reduced ghosting, improved color balance, and reduced operating noise in a smaller compact design.

HA22x7.2BE SM


Vformat


| | | |
|--|--|--|
| Zoom Ratio / Format | 22X / 2/3" | |
| Focal Length | 7.2 ~ 158 mm (2X) 14.4 ~ 316 mm | |
| Maximum Relative Aperture | 1:1.7 (7.2 ~ 149 mm) 1:1.8 (158 mm) | |
| Maximum Photometric Aperture T-No. | 1:1.9 (7.2 ~ 149 mm) 1:2.0 (158 mm) | |
| Angular Field of View (Hor. x Vert. in °) 16:9 Aspect Ratio | 7.2 mm 67° 20' x 41° 03' 158 mm 3° 29' x 1° 57' (2X) 14.4 mm 36° 50' x 21° 12' 316 mm 1° 44' x 0° 59' | |
| M.O.D. from Front of Lens | 0.6 m | |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) 16:9 Aspect Ratio | 7.2 mm 1047 x 589 mm 158 mm 48 x 27 mm (2X) 14.4 mm 524 x 294 mm 316 mm 24 x 13 mm | |
| Size (HxWxL) | 228 x 231 x 543 mm | |
| Weight | 19.5 kg | |
| Options | Ratio Converter / FIND | |
| Features | Floating System / Auto Compensation of Focus Breathing | |

HA27x6.5BE SM


Vformat


| | | |
|--|---|--|
| Zoom Ratio / Format | 27X / 2/3" | |
| Focal Length | 6.5 ~ 180 mm (2X) 13 ~ 360 mm | |
| Maximum Relative Aperture | 1:1.5 (6.5 ~ 123 mm) 1:2.2 (180 mm) | |
| Maximum Photometric Aperture T-No. | 1:1.6 (6.5 ~ 123 mm) 1:2.4 (180 mm) | |
| Angular Field of View (Hor. x Vert. in °) 16:9 Aspect Ratio | 6.5 mm 72° 50' x 45° 02' 180 mm 3° 03' x 1° 43' (2X) 13 mm 40° 30' x 23° 25' 360 mm 1° 32' x 0° 51' | |
| M.O.D. from Front of Lens | 0.6 m | |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) 16:9 Aspect Ratio | 6.5 mm 1053 x 592 mm 180 mm 39 x 22 mm (2X) 13 mm 527 x 296 mm 360 mm 20 x 21 mm | |
| Size (HxWxL) | 233 x 231 x 537 mm | |
| Weight (w/o Hood) | 19.7 kg | |
| Options | Ratio Converter / FIND | |
| Features | Advanced Back Focus / Remote Macro / Focus Fader Auto Compensation of Focus Breathing / Dust Proof & Anti Fogging | |



Field lenses are utilized in applications such as sporting events, concerts and houses of worship and require precise zooming and focusing and rugged construction. Fujinon's field lenses feature an exclusive compartment that utilizes a desiccant to remove damaging moisture which prolongs the life of the lens and reduces maintenance.



XA66x9.3BE SM*



| | | |
|---|---|-------------------|
| Zoom Ratio/Format | 9.3 ~ 615 mm | |
| Focal Length | (2X) 18.6 ~ 1230 mm | |
| Maximum Relative Aperture | 1:1.7 (9.3 ~ 325 mm) | |
| | 1:3.5 (615 mm) | |
| Maximum Photometric Aperture T-No. | 1:1.8 (9.3 ~ 325 mm) | |
| | 1:3.5 (615 mm) | |
| Angular Field of View (Hor. x Vert. in °) | 9.3 mm | 50° 38' x 39° 04' |
| 4:3 Aspect Ratio | (2X) 615 mm | 0° 49' x 0° 37' |
| | 18.6 mm | 29° 37' x 20° 07' |
| | 1230 mm | 0° 25' x 0° 18' |
| Angular Field of View (Hor. x Vert. in °) | 9.3 mm | 54° 33' x 32° 19' |
| 16:9 Aspect Ratio | (2X) 615 mm | 0° 54' x 0° 30' |
| | 18.6 mm | 28° 55' x 16° 29' |
| | 1350 mm | 0° 27' x 0° 15' |
| M.O.D. from Front of Lens | 2.7 m | |
| Object Dimensions at M.O.D. | 9.3 mm | 2346 x 1760 mm |
| (Hor. x Vert. in mm) | (2X) 615 mm | 36 x 27 mm |
| 4:3 Aspect Ratio | 18.6 mm | 1173 x 880 mm |
| | 1230 mm | 18 x 13 mm |
| Object Dimensions at M.O.D. | 9.3 mm | 2558 x 1438 mm |
| (Hor. x Vert. in mm) | (2X) 615 mm | 39 x 22 mm |
| 16:9 Aspect Ratio | 18.6 mm | 1279 x 719 mm |
| | 1230 mm | 19 x 11 mm |
| Size (HxWxL) | 252 x 252 x 644 mm | |
| Weight | 21.5 kg | |
| Options | Ratio Converter/FIND | |
| Features | Advanced Back Focus/Remote Macro/Focus Fader Dust Proof & Anti Fogging | |

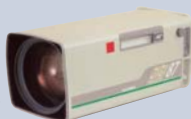
XA72x9.3BE SM*

XA76x9.3BE SM*



| LENS | XA72X9.3BE SM | XA76X9.3BE SM |
|---|--|--------------------------------|
| Zoom Ratio/Format | 72X / 2/3" | 76X / 2/3" |
| Focal Length | 9.3 ~ 675 mm | 9.3 ~ 710 mm |
| | (2X) 18.6 ~ 1350 mm | (2X) 18.6 ~ 1420 mm |
| Maximum Relative Aperture | 1:1.7 (9.3 ~ 328 mm) | 1:1.7 (9.3 ~ 334 mm) |
| | 1:3.5 (675 mm) | 1:3.6 (710 mm) |
| Maximum Photometric Aperture T-No. | 1:1.8 (9.3 ~ 328 mm) | 1:1.8 (9.3 ~ 334 mm) |
| | 1:3.7 (675 mm) | 1:3.8 (710 mm) |
| Angular Field of View (Hor. x Vert. in °) | 9.3 mm 50° 38' x 39° 04' | 9.3 mm 50° 38' x 39° 04' |
| 4:3 Aspect Ratio | (2X) 675 mm 0° 45' x 0° 34' | 710 mm 0° 43' x 0° 32' |
| | 18.6 mm 26° 37' x 20° 07' | (2X) 18.6 mm 26° 37' x 20° 07' |
| | 1350 mm 0° 22' x 0° 17' | 1420 mm 0° 21' x 0° 16' |
| Angular Field of View (Hor. x Vert. in °) | 9.3 mm 54° 33' x 32° 19' | 9.3 mm 54° 33' x 32° 19' |
| 16:9 Aspect Ratio | (2X) 675 mm 0° 49' x 0° 27' | 710 mm 0° 46' x 0° 26' |
| | 18.6 mm 28° 55' x 16° 29' | (2X) 18.6 mm 28° 55' x 16° 29' |
| | 1350 mm 0° 24' x 0° 14' | 1420 mm 0° 23' x 0° 13' |
| M.O.D. from Front of Lens | 2.7 m | |
| Object Dimensions at M.O.D. | 9.3 mm 2346 x 1760 mm | 9.3 mm 2347 x 1760 mm |
| (Hor. x Vert. in mm) | (2X) 675 mm 33 x 24 mm | 710 mm 31 x 23 mm |
| 4:3 Aspect Ratio | 18.6 mm 1173 x 880 mm | (2X) 18.6 mm 1173 x 880 mm |
| | 1350 mm 16 x 12 mm | 1420 mm 15 x 12 mm |
| Object Dimensions at M.O.D. | 9.3 mm 2558 x 1438 mm | 9.3 mm 2558 x 1438 mm |
| (Hor. x Vert. in mm) | (2X) 675 mm 36 x 20 mm | 710 mm 34 x 19 mm |
| 16:9 Aspect Ratio | 18.6 mm 1279 x 719 mm | (2X) 18.6 mm 1279 x 719 mm |
| | 1350 mm 18 x 10 mm | 1420 mm 17 x 9 mm |
| Size (HxWxL) | 252 x 252 x 644 mm | |
| Weight | 21 kg | 21.8 kg |
| Options | Ratio Converter / FIND | |
| Features | Advanced Back Focus / Remote Macro / Focus Fader Dust Proof & Anti Fogging / Built-In OS-TECH (XA76X) | |

*B3 Ikegami mount also available.


OS-TECH
Vformat

XA87x9.3BE SM* / XA87x13.2BE SM*

| Zoom Ratio / Format | 87X / 2/3" | 87X / 2/3" |
|--|---|---|
| Focal Length | 9.3 ~ 810 mm (2X) 18.6 ~ 1620 mm | 13.2 ~ 1150 mm (2X) 26.4 ~ 2300 mm |
| Maximum Relative Aperture | 1:1.7 (9.3 ~ 336 mm) 1:4.1 (810 mm) | 1:2.4 (13.2 ~ 476 mm) 1:5.8 (1150 mm) |
| Maximum Photometric Aperture T-No. | 1:1.9 (9.3 ~ 336 mm) 1:4.5 (810 mm) | 1:2.6 (13.2 ~ 476 mm) 1:6.4 (1150 mm) |
| Angular Field of View (Hor. x Vert. in °) 4:3 Aspect Ratio | 9.3 mm 50° 38' x 39° 04' 810 mm 0° 37' x 0° 28' (2X) 18.6 mm 26° 37' x 20° 07' 1620 mm 0° 19' x 0° 14' | 13.2 mm 36° 52' x 28° 04' 1150 mm 0° 26' x 0° 20' (2X) 26.4 mm 18° 55' x 14° 15' 2300 mm 0° 13' x 0° 10' |
| Angular Field of View (Hor. x Vert. in °) 16:9 Aspect Ratio | 9.3 mm 54° 33' x 32° 19' 810 mm 0° 41' x 0° 23' (2X) 18.6 mm 28° 55' x 16° 29' 1620 mm 0° 20' x 0° 11' | 13.2 mm 39° 56' x 23° 05' 1150 mm 0° 29' x 0° 16' (2X) 26.4 mm 20° 35' x 11° 39' 2300 mm 0° 14' x 0° 08' |
| M.O.D. from Front of Lens | 2.7 m | 2.7 m / 4 m (133 - 1150 m) |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) 4:3 Aspect Ratio | 9.3 mm 2346 x 1760 mm 810 mm 27 x 20 mm (2X) 18.6 mm 1173 x 880 mm 1620 mm 13 x 10 mm | 13.2 mm 1654 x 1240 mm 1150 mm 29 x 22 mm (2X) 26.4 mm 827 x 620 mm 2300 mm 14 x 11 mm |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) 16:9 Aspect Ratio | 9.3 mm 2558 x 1438 mm 810 mm 29 x 17 mm (2X) 18.6 mm 1279 x 719 mm 1620 mm 15 x 8 mm | 13.2 mm 1802 x 1013 mm 1150 mm 32 x 18 mm (2X) 26.4 mm 901 x 506 mm 2300 mm 16 x 9 mm |
| Size (HxWxL) | 252 x 252 x 644 mm | 252 x 252 x 669 mm |
| Weight | 22 kg | 22.5 kg |
| Options | Ratio Converter / FIND | |
| Features | Advanced Back Focus / Remote Macro / Focus Fader Built-In OS-TECH / Dust Proof & Anti Fogging | |



OS-TECH
Vformat
XA101x8.9BE SM*

| Zoom Ratio / Format | 101X / 2/3" |
|--|---|
| Focal Length | 8.9 ~ 900 mm (2X) 17.8 ~ 1800 mm |
| Maximum Relative Aperture | 1:1.7 (8.9 ~ 291 mm) 1:4.7 (900 mm) |
| Maximum Photometric Aperture T-No. | 1:1.8 (8.9 ~ 291 mm) 1:5.0 (900 mm) |
| Angular Field of View (Hor. x Vert. in °) 4:3 Aspect Ratio | 8.9 mm 52° 37' x 40° 41' 900 mm 0° 34' x 0° 25' (2X) 17.8 mm 27° 46' x 21° 00' 1800 mm 0° 17' x 0° 13' |
| Angular Field of View (Hor. x Vert. in °) 16:9 Aspect Ratio | 8.9 mm 56° 38' x 33° 42' 900 mm 0° 37' x 0° 21' (2X) 17.8 mm 30° 09' x 17° 13' 1800 mm 0° 18' x 0° 10' |
| M.O.D. from Front of Lens | 2.9 m |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) 4:3 Aspect Ratio | 8.9 mm 2629 x 1972 mm 900 mm 26 x 20 mm (2X) 17.8 mm 1315 x 986 mm 1800 mm 13 x 10 mm |
| Object Dimensions at M.O.D. (Hor. x Vert. in mm) 16:9 Aspect Ratio | 8.9 mm 2865 x 1610 mm 900 mm 28 x 16 mm (2X) 17.8 mm 1433 x 805 mm 1800 mm 14 x 8 mm |
| Size (HxWxL) | 252 x 252 x 666 mm |
| Weight | 22.9 kg |
| Options | Ratio Converter / FIND |
| Features | Advanced Back Focus / Remote Macro / Focus Fader Built-In OS-TECH / Dust Proof & Anti Fogging |

*B3 Ikegami mount also available.

While standard definition is slowly being phased out in favor of the newer high definition formats there are still many applications that require high quality SDTV lenses. Fujinon will continue to refine and support our complete line of SDTV lenses for many years in the future.

All Fujinon Broadcast series lenses feature the optimum in optical quality and rugged, reliable design. The exclusive DigiPower servo system for smooth, fast zooms.

A13x4.5BE RM/RD*


WIDE POWER
QuickZoom


| | |
|---|---|
| Zoom Ratio / Format | 13X / 2/3" |
| Focal Length | 4.5 to 59 mm (2X) 9 to 118 mm |
| Maximum Relative Aperture | F1.8 (to 41 mm) F2.6 (at 59 mm) |
| Angular Field of View (Hor. x Vert. in °) 4:3 | 4.5 mm 88° 43' x 72° 30' 59 mm 8° 32' x 6° 24' |
| M.O.D. from Front of Lens | 0.3 m |
| Object Area (at Wide) at M.O.D. 4:3 (at Tele) | 4.5mm 687 x 515 mm 59 mm 50 x 38 mm |
| Filter Size | ø 127 mm P=0.75 (In Hood) |
| Dia ø x Length (w/o Hood) | ø95 x 237.5 mm |
| Weight | ERM 1.83 kg ERD 1.9 kg |
| Options | Quick Frame / Ratio Converter / 16 Bit Encoder |
| Features | Zoom Limit / Quick Zoom |

A18x7.6BE RM/RD*


QuickZoom


| | |
|---|---|
| Zoom Ratio / Format | 18X / 2/3" |
| Focal Length | 7.6 to 137 mm (2X) 15.2 to 274 mm |
| Maximum Relative Aperture | F1.8 (to 103 mm) F2.4 (at 137 mm) |
| Angular Field of View (Hor. x Vert. in °) 4:3 | 7.6 mm 60° 8' x 46° 57' 137 mm 3° 41' x 2° 46' |
| M.O.D. from Front of Lens | 0.6 m |
| Object Area (at Wide) at M.O.D. 4:3 (at Tele) | 7.6 mm 677 x 508 mm 137 mm 38 x 28 mm |
| Filter Size | ø 82 mm P=0.75 (On Barrel) |
| Dia ø x Length (w/o Hood) | ø85 x 203 mm |
| Weight | ERM 1.53 kg ERD 1.6 kg |
| Options | Quick Frame / Ratio Converter / 16 Bit Encoder |
| Features | Zoom Limit / Quick Zoom |

A22x7.8BE RM/RD*


QuickZoom


| | |
|---|--|
| Zoom Ratio / Format | 22X / 2/3" |
| Focal Length | 7.8 to 172 mm (2X) 15.6 to 344 mm |
| Maximum Relative Aperture | F1.8 (to 124 mm) F2.5 (at 172 mm) |
| Angular Field of View (Hor. x Vert. in °) 4:3 | 7.8 mm 58° 51' x 45° 52' 172 mm 2° 56' x 2° 12' |
| M.O.D. from Front of Lens | 0.8 m |
| Object Area (at Wide) at M.O.D. 4:3 (at Tele) | 7.8 mm 859 x 644 mm 172 mm 39 x 29 mm |
| Filter Size | ø 95 mm P=1.0 (On Barrel)/ø 107 mm P=1.0 (On Hood) |
| Dia ø x Length (w/o Hood) | ø100 x 217.5 mm |
| Weight | ERM 1.73 kg ERD 1.80 kg |
| Options | Quick Frame / Ratio Converter / 16 Bit Encoder |
| Features | Zoom Limit / Quick Zoom |

* ERD contains servos for zoom and focus.

A42x9.7BE RD*

QuickZoom


| | |
|---|--|
| Zoom Ratio / Format | 42X / 2/3" |
| Focal Length | 9.7 to 410 mm |
| Extender | (2X) 19.4 to 820 mm |
| Maximum Relative Aperture | F2.0 (9.7 to 219 mm) F3.7 (at 410 mm) |
| Angular Field of View (Hor. x Vert. in °) | 9.7 mm 48° 48' x 37° 35' |
| 4:3 Aspect Ratio | 410 mm 1° 14' x 0° 55' |
| | (2X) 19.4 mm 25° 33' x 19° 18' |
| | 820 mm 0° 37' x 0° 28' |
| M.O.D. from Front of Lens | 2.8 m |
| Object Area (at Wide) | 9.7 mm 2404 x 1803 mm |
| at M.O.D. (at Tele) | 410 mm 58 x 44 mm |
| 4:3 Aspect Ratio | (2X) 19.4 mm 1229 x 922 mm |
| | 820 mm 30 x 23 mm |
| Filter Size | ø 127 mm P=0.75 (On Barrel) |
| Dia ø x Length (w/o Hood) | ø130 x 337.5 mm |
| Weight | 5.1 kg |
| Features | Inner Focus/Quick Zoom/Zoom Limit |

A42x13.5BE RD*

QuickZoom

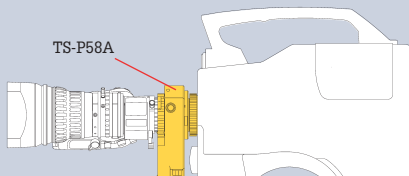

| | |
|---|---|
| Zoom Ratio / Format | 42X / 2/3" |
| Focal Length | 13.5 to 570 mm |
| Extender | (2X) 27 to 1140 mm |
| Maximum Relative Aperture | F2.8 (13.5 to 305 mm) F5.2 (at 570 mm) |
| Angular Field of View (Hor. x Vert. in °) | 13.5 mm 36° 06' x 27° 28' |
| 4:3 Aspect Ratio | 570 mm 0° 53' x 0° 40' |
| | (2X) 27 mm 18° 31' x 13° 56' |
| | 1140 mm 0° 27' x 0° 20' |
| M.O.D. from Front of Lens | 2.8 m |
| Object Area (at Wide) | 13.5 mm 1732 x 1299 mm |
| at M.O.D. (at Tele) | 570 mm 41 x 31 mm |
| 4:3 Aspect Ratio | (2X) 27 mm 866 x 650 mm |
| | 1140 mm 21 x 15 mm |
| Filter Size | ø 127 mm P=0.75 (On Barrel) |
| Dia ø x Length (w/o Hood) | ø130 x 357.5 mm |
| Weight | 5.2 kg |
| Features | Inner Focus/Quick Zoom/Zoom Limit |

* ERD contains servos for zoom and focus.

OS-TECH
TS-P58A
Anti-vibration Device

For use on models A42x9.7 ERD and A42x13.5 ERD

For additional lens applications, refer to pg. 32



| | |
|-------------------------------|--|
| Stabilization System | Optical Shift |
| Magnification of Focal Length | 1.25 |
| Mount | Bayonet Mount (2/3 in. B-type) |
| Direction of Compensation | Vertical / Horizontal or Vertical Only |
| Anti-vibration Range | Approx. 20% of Vertical at Screen |
| Power Consumption | DC 12 V, 4.2 W (from camera) |
| Dimension (L x W x H) / Mass | 58 x 120 x 150 mm / Approx. 0.84 kg |

Ratio Converter Lenses

The ratio converter is needed to maintain the same field of view as a standard 4:3 camera when using a camera that is both 4:3 and 16:9 formats. The dual format cameras in the 4:3 mode result in approximately a 20% loss in angle of view. The built in ratio converter will compensate for this loss and achieve an angle of view equal that of the standard 4:3 camera.

Vformat



A13x4.5BDE RM/RD*

DIGI POWER
WIDE POWER
QuickZoom
Vformat



| | | |
|--|----------|-------------------|
| Zoom Ratio / Format | | 13X / 2/3" |
| Extender | | 2X |
| Focal Length | | 4.5 to 59 mm |
| | Extender | (2X) 9 to 118 mm |
| Angular Field of View (Hor. x Vert.) 16:9 | 4.5 mm | 93° 38' x 61° 50' |
| | 59 mm | 9° 18' x 5° 14' |
| Angular Field of View (Hor. x Vert.) 4:3 w/ .8 Ratio Converter | 4.5 mm | 88° 43' x 72° 30' |
| | 59 mm | 8° 32' x 6° 24' |
| Weight | ERM | 2.03 kg |
| | ERD | 2.1 kg |

A18x7.6BDE RM/RD*

DIGI POWER
QuickZoom
Vformat



| | | |
|--|----------|---------------------|
| Zoom Ratio / Format | | 18X / 2/3" |
| Extender | | 2X |
| Focal Length | | 7.6 to 137 mm |
| | Extender | (2X) 15.2 to 274 mm |
| Angular Field of View (Hor. x Vert.) 16:9 | 7.6 mm | 64° 30' x 39° 03' |
| | 137 mm | 4° 01' x 2° 15' |
| Angular Field of View (Hor. x Vert.) 4:3 w/ .8 Ratio Converter | 7.6 mm | 60° 08' x 46° 57' |
| | 137 mm | 3° 41' x 2° 46' |
| Weight | ERM | 1.70 kg |
| | ERD | 1.77 kg |

A22x7.8BDE RM/RD*

DIGI POWER
QuickZoom
Vformat



| | | |
|--|----------|---------------------|
| Zoom Ratio / Format | | 22X / 2/3" |
| Extender | | 2X |
| Focal Length | | 7.8 to 172 mm |
| | Extender | (2X) 15.6 to 344 mm |
| Angular Field of View (Hor. x Vert.) 16:9 | 7.8 mm | 63° 10' x 38° 07' |
| | 172 mm | 3° 12' x 1° 48' |
| Angular Field of View (Hor. x Vert.) 4:3 w/ .8 Ratio Converter | 7.8 mm | 58° 51' x 45° 52' |
| | 172 mm | 2° 56' x 2° 12' |
| Weight | ERM | 1.87 kg |
| | ERD | 1.94 kg |

(Refer to full size charts on pg. 18 for further information)

* ERD contains servos for zoom and focus.

Fujinon's Professional grade lenses offer high optical quality and a range of focal lengths for every professional production application.

Wide-angle lenses have become increasingly popular for professional videographers and Fujinon's 13x series has set the pace with the widest angle of 6.3mm (2/3"). The optional 2x-range extender adds additional versatility with a maximum focal length of 164mm.

The 20x series features the longest focal length and is available with optional 2x-range extender for telephoto shots.



A13x6.3B / S13x4.6B RM/ERM*

| | | |
|---|--|---|
| Zoom Ratio / Format | 13X / 2/3" | 13X / 1/2" |
| Focal Length | 6.3 to 82 mm (2X) 12.6 to 164 mm | 4.6 to 60 mm (2X) 9.2 to 120 mm |
| Maximum Relative Aperture | F2 (to 61 mm) F2.7 (at 82 mm) | F1.5 (to 45 mm) F2.0 (at 60 mm) |
| Angular Field of View (Hor. x Vert. in °) | 6.3mm 69° 52' x 55° 18' 82mm 6° 09' x 4° 37' (2X)12.6mm 38° 30' x 29° 21' 164mm 3° 04' x 2° 18' | 4.6mm 69° 39' x 55° 06' 60mm 6° 06' x 4° 35' (2X)9.2mm 38° 21' x 29° 15' 120mm 3° 03' x 2° 17' |
| M.O.D. | 0.4 m | 0.4 m |
| Object Area (at Wide) at M.O.D. (at Tele) | 6.3mm 617mm x 463mm 82mm 47mm x 36mm (2X) 12.6mm 309mm x 231mm 164mm 24mm x 18mm | 4.6mm 633mm x 475mm 60mm 49mm x 37mm (2X)9.2mm 315mm x 236mm 120mm 24mm x 18mm |
| Filter Size (on Barrel) | ø 82 mm P=0.75 | ø 82 mm P=0.75 |
| Weight | RM 1.68 kg ERM 1.78 kg | 1.68 kg 1.78 kg |
| Features | Inner Focus | Inner Focus |

*ERM version with 2X extender



A17x9B RM / S17x6.6B RM

| | | |
|---|--|--|
| Zoom Ratio / Format | 17X / 2/3" | 17X / 1/2" |
| Focal Length | 9 to 155 mm | 6.6 to 114 mm |
| Maximum Relative Aperture | F1.9 (to 115 mm) F2.6 (at 155 mm) | F1.5 (to 90 mm) F1.9 (at 114 mm) |
| Angular Field of View (Hor. x Vert. in °) | 9mm 52° 06' x 40° 16' 155mm 3° 15' x 2° 26' | 6.6mm 51° 44' x 39° 58' 114mm 3° 13' x 2° 25' |
| M.O.D. | 0.9m | 0.9m |
| Object Area (at Wide) at M.O.D. (at Tele) | 9mm 815mm x 611mm 155mm 47mm x 36mm | 6.6mm 808mm x 606mm 114mm 47mm x 35mm |
| Filter Size (on Barrel) | ø 82 mm P=0.75 | ø 82 mm P=0.75 |
| Weight w/o hood | 1.25 kg | 1.25 kg |
| Features | Inner Focus | Inner Focus |



A20x8.6B / S20x6.4B RM/ERM*

| Zoom Ratio/Format | 20X / 2/3" | 20X / 1/2" |
|---|--|--|
| Focal Length | 8.6 to 172 mm (2X) 17.2 to 344 mm | 6.4 to 128 mm (2X) 12.8 to 256 mm |
| Maximum Relative Aperture | F1.8 (to 115 mm) F2.7 (at 172 mm) | F1.4 (to 90 mm) F2.0 (at 128 mm) |
| Angular Field of View (Hor. x Vert. in °) | 8.6mm 54° 11' x 41° 59' 172mm 2° 56' x 2° 12' (2X) 17.2mm 28° 42' x 21° 43' 344mm 1° 28' x 1° 06' | 6.4mm 53° 08' x 41° 07' 128mm 2° 52' x 2° 09' (2X) 12.8mm 28° 04' x 21° 14' 256mm 1° 26' x 1° 04' |
| M.O.D. | 0.9 m | 0.9 m |
| Object Area (at Wide) at M.O.D. (at Tele) (at Wide) (at Tele) | 8.6mm 866mm x 650mm 172mm 43mm x 33mm (2X) 17.2mm 433mm x 325mm 344mm 21mm x 16mm | 6.4mm 846mm x 635mm 128mm 42mm x 32mm (2X) 12.8mm 423mm x 317mm 256mm 21mm x 16mm |
| Filter Size | ø 82 mm P=0.75 | ø 82 mm P=0.75 |
| Weight RM ERM | 1.4 kg 1.5 kg | 1.4 kg 1.5 kg |
| Features | Inner Focus | Inner Focus |

*ERM version with 2X extender

Front Mounted Ratio Converter for 16:9–4:3 Switchable Cameras

Most of the new 16:9–4:3 switchable cameras exhibit a reduction in viewing angle of approximately 20% when used in the 4:3 mode. Fujinon's new RCV-82SC front mounted ratio converter offers a simple solution for this loss of angle. The RCV-82SC is a small screw-on converter that adapts easily to any lens with an 82mm filter size resulting in an image that is of the same corresponding angle of a standard 4:3 camera.



A20x8.6B RM / A20x8.6B ERM**

| Zoom Ratio / Format | 20X / 2/3" | 20X / 2/3" |
|---|--|--|
| Extender | — | 2X |
| Focal Length | 8.6 – 172mm | 8.6 – 172mm (2X) 17.2 – 344mm |
| Angular Field of View (Hor. x Vert.) Standard 4:3 Switchable Camera in 4:3 Mode w/RCV 82SC | 8.6 mm 54° 11' x 41° 59' 172 mm 2° 56' x 2° 12' | 8.6 mm 54° 11' x 41° 59' 172 mm 2° 56' x 2° 12' |
| Angular Field of View (Hor. x Vert.) Switchable Camera in 16:9 Wide Screen Mode (RCV 82SC not required) | 8.6 mm 58° 17' x 34° 48' 172 mm 3° 12' x 1° 48' | 8.6 mm 58° 17' x 34° 48' 172 mm 3° 12' x 1° 48' |
| Weight w/RCV 82SC | 1.65 kg | 1.75 kg |
| Features | Inner Focus | Inner Focus |

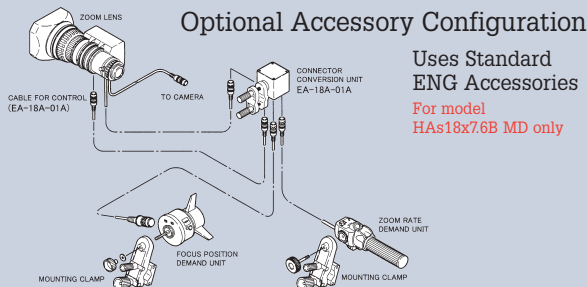
**Field of View specifications are shown without extender in place.
(Refer to full size charts above for more information)

Fujinon's HD lenses for videoconferencing and other remote control applications open new markets for HDTV. The new HSs18x5.5B is designed to enhance the performance of the newest 1/2 inch HD Hot Shoe mount cameras.



HAs18x7.6B MD / HSs18x5.5B MD

| Zoom Ratio / Format | 18X / 2/3" | 18X / 1/2" |
|---|--|--|
| Focal Length | 7.6 mm ~ 137 mm | 5.5 mm ~ 100 mm |
| Maximum Relative Aperture | 1.8 (to 103 mm) 2.4 (at 137 mm) | 1.4 (to 77 mm) 1.8 (at 100 mm) |
| Angular Field of View (Hor. x Vert. in °) | 7.6 mm 64° 30' x 39° 03' 137 mm 4° 01' x 2° 15' | 5.5 mm 64° 43' x 39° 14' 100 mm 4° 00' x 2° 15' |
| M.O.D. from Front of Lens | 0.6 m | 0.6 m |
| Object Area (at Wide) at M.O.D. (at Tele) | 7.6 mm 738 x 415 mm 137 mm 41 x 23 mm | 5.5 mm 741 x 417 mm 100 mm 43 x 24 mm |
| Filter Size | ø 82 x 0.75 | ø 82 x 0.75 |
| Weight w/o hood | 1.55 kg | 1.55 kg |



Refer to pg. 31 for Standard Videoconferencing Accessories.

A13x6.3B / S13x4.6B MD/EMD*



| Zoom Ratio/Format | 13X / 2/3" | 13X / 1/2" |
|---|---|--|
| Focal Length | 6.3 to 82 mm (2X) 12.6 to 164 mm | 4.6 to 60 mm (2X) 9.2 to 120 mm |
| Maximum Relative Aperture | F2 (to 61 mm) F2.7 (at 82 mm) | F1.5 (to 45 mm) F2.0 (at 60 mm) |
| Angular Field of View (Hor. x Vert. in °) | 6.3mm 69° 52' x 55° 18' 82mm 6° 09' x 4° 37' (2X) 12.6mm 38° 30' x 29° 21' 164mm 3° 04' x 2° 18' | 4.6mm 69° 39' x 55° 06' 60mm 6° 06' x 4° 35' (2X) 9.2mm 38° 21' x 29° 15' 120mm 3° 03' x 2° 17' |
| M.O.D. | 0.4 m | 0.4 m |
| Object Area(at Wide) at M.O.D. (at Tele) | 6.3mm 617mm x 463mm 82mm 47mm x 36mm (2X) 12.6mm 309mm x 231mm 164mm 24mm x 18mm | 4.6mm 633mm x 475mm 60mm 49mm x 37mm (2X) 9.2mm 315mm x 236mm 120mm 24mm x 18mm |
| Filter Size (on Barrel) | ø 82 mm P=0.75 | ø 82 mm P=0.75 |
| Weight MD EMD | 1.73 kg 1.83 kg | 1.73 kg 1.83 kg |
| Features | Inner Focus | Inner Focus |

*EMD version with 2X extender

Fujinon's complete line of remote control lenses is ideal for everything from graphics stands and videoconferencing to tower cams. A wide array of accessories including wide and telephoto converters, filters and remote controllers are available.



S16x7.3B MD

| | |
|---|--|
| Zoom Ratio / Format | 16X / 1/2" |
| Focal Length | 7.3 mm ~ 117 mm |
| Maximum Relative Aperture | 1.9 (to 98 mm) 2.3 (at 117 mm) |
| Angular Field of View (Hor. x Vert. in °) | 7.3 mm 47° 20' x 36° 24' 117 mm 3° 08' x 2° 21' |
| M.O.D. from Front of Lens | 1.0 m |
| Object Area (at Wide) at M.O.D. (at Tele) | 7.3 mm 823 x 617 mm 117 mm 51 x 39 mm |
| Filter Size | ø 62 x 0.75 |
| Weight | 0.87 kg |



A20x8.6B MD/S20x6.4B MD

| Zoom Ratio / Format | 20X / 2/3" | 20X / 1/2" |
|---|--|--|
| Focal Length | 8.6 mm ~ 172 mm | 6.4 mm ~ 128 mm |
| Maximum Relative Aperture | 1.8 (to 115 mm) 2.7 (at 172 mm) | 1.4 (to 90 mm) 2.0 (at 128 mm) |
| Angular Field of View (Hor. x Vert. in °) | 8.6 mm 54° 11' x 41° 59' 172 mm 2° 56' x 2° 12' | 6.4 mm 53° 08' x 41° 07' 128 mm 2° 52' x 2° 09' |
| M.O.D. from Front of Lens | 0.9 m | 0.9 m |
| Object Area (at Wide) at M.O.D. (at Tele) | 8.6 mm 866 x 650 mm 172 mm 43 x 33 mm | 6.4 mm 846 x 635 mm 128 mm 42 x 32 mm |
| Filter Size | ø 82 x 0.75 | ø 82 x 0.75 |
| Weight | 1.45 kg | 1.45 kg |
| Features | Inner Focus | Inner Focus |



A20x8.6BE MD/S20x6.4BE MD

| Zoom Ratio / Format | 20X / 2/3" | 20X / 1/2" |
|---|---|---|
| Focal Length | 8.6 to 172 mm | 6.4 to 128 mm |
| w/ Built-in Extender | (2X) 17.2 to 344 mm | (2X) 12.8 to 256 mm |
| Maximum Relative Aperture | F1.8 (to 115 mm) F2.7 (at 172 mm) | F1.4 (to 90 mm) F2.0 (at 128 mm) |
| Angular Field of View (Hor. x Vert. in °) | 8.6mm 54° 11' x 41° 59' 172mm 2° 56' x 2° 12' (2X)17.2mm 28° 42' x 21° 43' 344mm 1° 28' x 1° 06' | 6.4mm 53° 08' x 41° 07' 128mm 2° 52' x 2° 09' (2X)12.8mm 28° 04' x 21° 14' 256mm 1° 26' x 1° 04' |
| M.O.D. | 0.9 m | 0.9 m |
| Object Area(at Wide) at M.O.D. (at Tele) | 8.6mm 866mm x 650mm 172mm 43mm x 33mm (2X) 17.2mm 433mm x 325mm 344mm 21mm x 16mm | 6.4mm 846mm x 635mm 128mm 42mm x 32mm (2X)12.8mm 423mm x 317mm 256mm 21mm x 16mm |
| Filter Size | ø 82 mm P=0.75 | ø 82 mm P=0.75 |
| Weight | 1.55 kg | 1.55 kg |
| Features | Inner Focus | Inner Focus |

Fujinon's SDTV studio and field lenses have been the mainstay in TV station and remote production applications for many years and continue to lead the industry in performance and features. From small studios to large stadiums, Fujinon has the lens to fill your needs.


Vformat


Ah20x8BE SM*

| | | |
|------------------------------|---------------------------------------|--|
| Zoom Ratio / Format | 20X / 2/3" | |
| Focal Length | (1X) 8 to 160 mm (2X) 16 to 320 mm | |
| Maximum Relative Aperture | F1.5 (to 110 mm) F2.2 (to 160 mm) | |
| Angular Field of View (Hor.) | 8 mm | 57° 37' x 44° 50' |
| 4:3 Aspect Ratio | (2X) 160 mm | 3° 09' x 2° 22' |
| and switchable with V-Format | 320 mm | 1° 35' x 1° 11' |
| Angular Field of View (Hor.) | 8 mm | 61° 52' x 37° 14' |
| 16:9 Aspect Ratio | (2X) 160 mm | 3° 26' x 1° 56' |
| | 320 mm | 1° 43' x 0° 58' |
| Minimum Object Distance | 0.6 m | |
| Object Area at M.O.D. | 4:3 (at Wide) | 8 mm 809 x 607 mm 160 mm 40 x 30 mm |
| | (at Tele) | (2X) 16 mm 405 x 304 mm 320 mm 20 x 15 mm |
| | 16:9 (at Wide) | 8 mm 881 x 496 mm 160 mm 44 x 25 mm |
| | (at Tele) | (2X) 16 mm 441 x 248 mm 320 mm 22 x 13 mm |
| Size (HxWxL) | 228 x 231 x 480 mm | |
| Weight | 15.5 kg | |
| Options | Ratio Converter / FIND | |
| Features | Auto Compensation of Focus Breathing | |


Vformat


Ah24x7BE SM*

| | | |
|------------------------------|--|--|
| Zoom Ratio / Format | 24X / 2/3" | |
| Focal Length | (1X) 7 to 168 mm (2X) 14 to 336 mm | |
| Maximum Relative Aperture | F1.5 (to 126 mm) F2.0 (to 168 mm) | |
| Angular Field of View (Hor.) | 7 mm | 64° 18' x 50° 29' |
| 4:3 Aspect Ratio | (2X) 168 mm | 3° 00' x 2° 15' |
| and switchable with V-Format | 336 mm | 1° 30' x 1° 08' |
| Angular Field of View (Hor.) | 7 mm | 68° 49' x 42° 07' |
| 16:9 Aspect Ratio | (2X) 168 mm | 3° 16' x 1° 50' |
| | 336 mm | 1° 38' x 0° 55' |
| Minimum Object Distance | 0.6 m | |
| Object Area at M.O.D. | 4:3 (at Wide) | 7 mm 988 x 741 mm 168 mm 41 x 31 mm |
| | (at Tele) | (2X) 14 mm 494 x 371 mm 336 mm 21 x 15 mm |
| | 16:9 (at Wide) | 7 mm 1077 x 605 mm 168 mm 45 x 25 mm |
| | (at Tele) | (2X) 14 mm 539 x 303 mm 336 mm 22 x 13 mm |
| Size (HxWxL) | 228 x 231 x 530 mm | |
| Weight | 19.0 kg | |
| Options | Macro / Ratio Converter / FIND | |
| Features | Floating System/ Auto Compensation of Focus Breathing | |

*B3 Ikegami mount also available.

Ah50x9.5BE SM



| | | |
|---|---|---|
| Zoom Ratio / Format | 50X / 2/3" | |
| Focal Length | (1X) 9.5 to 475 mm (2X) 19 to 950 mm | |
| Maximum Relative Aperture | F1.4 (to 253 mm) F2.6 (to 475 mm) | |
| Angular Field of View (Hor.) | 9.5 mm 49° 42' x 38° 19' 475 mm 1° 04' x 0° 48' | |
| 4:3 Aspect Ratio and switchable with V-Format | (2X) | 19 mm 26° 05' x 19° 42' 950 mm 0° 32' x 0° 24' |
| Angular Field of View (Hor.) | 9.5 mm 53° 34' x 31° 41' 475 mm 1° 09' x 0° 39' | |
| 16:9 Aspect Ratio | (2X) | 19 mm 28° 20' x 16° 09' 950 mm 0° 35' x 0° 20' |
| Minimum Object Distance | 2.4 m | |
| Object Area at M.O.D. | 4:3 (at Wide) | 9.5 mm 2027 x 1520 mm 475 mm 41 x 30 mm (2X) 19 mm 1014 x 760 mm 950 mm 20 x 15 mm |
| | 16:9 (at Wide) | 9.5 mm 2209 x 1242 mm 475 mm 44 x 25 mm (2X) 19 mm 1105 x 621 mm 950 mm 22 x 12 mm |
| Size (HxWxL) w/o support | 345 x 252 x 848 mm | |
| Weight | 22 kg | |
| Features | Built-in Support Bracket / Dust Proof & Anti Fogging | |

Ah60x9.5BE SM*



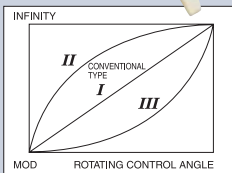
Vformat


| | | |
|---|---|--|
| Zoom Ratio / Format | 60X / 2/3" | |
| Focal Length | (1X) 9.5 to 570 mm (2X) 19 to 1140 mm | |
| Maximum Relative Aperture | F1.4 (to 257 mm) F3.1 (to 570 mm) | |
| Angular Field of View (Hor.) | 9.5 mm 49° 42' x 38° 19' 570 mm 0° 53' x 0° 40' | |
| 4:3 Aspect Ratio and switchable with V-Format | (2X) | 19 mm 26° 05' x 19° 42' 1140 mm 0° 27' x 0° 20' |
| Angular Field of View (Hor.) | 9.5 mm 53° 34' x 31° 41' 570 mm 0° 58' x 01° 33' | |
| 16:9 Aspect Ratio | (2X) | 19 mm 28° 20' x 16° 09' 1140 mm 0° 29' x 0° 16' |
| Minimum Object Distance | 2.4 m | |
| Object Area at M.O.D. | 4:3 (at Wide) | 9.5 mm 2027 x 1520 mm 570 mm 34 x 25 mm (2X) 19 mm 1014 x 760 mm 1140 mm 17 x 13 mm |
| | 16:9 (at Wide) | 9.5 mm 2209 x 1242 mm 570 mm 37 x 21 mm (2X) 19 mm 1105 x 621 mm 1140 mm 18 x 10 mm |
| Size (HxWxL) | 252 x 252 x 573 mm | |
| Weight | 19.0 kg | |
| Options | Macro / Ratio Converter / FIND | |
| Features | Dust Proof & Anti Fogging | |

*B3 Ikegami mount also available.

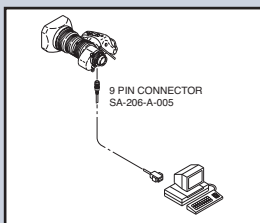
Three-mode Fine Focus

By shifting the sensitivity from the wide side to the telephoto side of the focus range, this control provides more precise focusing for studio or sports productions.

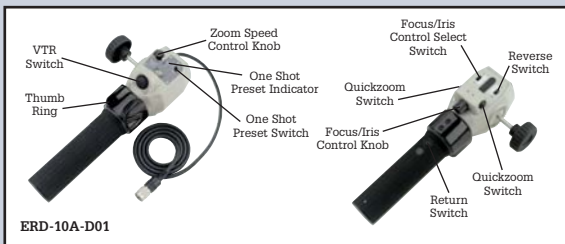


Serial Digital Remote Control by PC

Remote control of zoom, focus and iris for DigiPower lenses is possible via serial digital link, providing accurate positioning for virtual studio and other applications requiring digital precision.



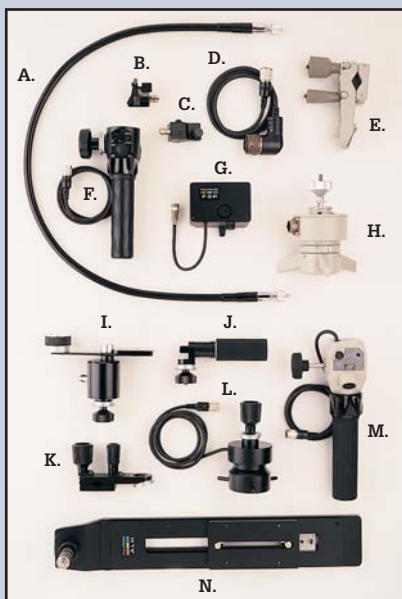
Digi Zoom Demand*



ERD-10A-D01

*New Digital features only available on ERM/ERD-M/S.

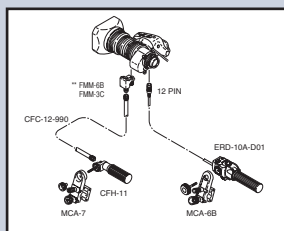
- A. CFC-990 Flex Cable
- B. FMM-3B/6B Manual Module
- C. ZMM-6 Manual Module
- D. ESF-1 Focus Cable
- E. MCA-6
- F. ERD-T21/T22 Zoom Demand
- G. FSP-13G Focus Positional Module
- H. EPD-4A-E02
- I. CZH-14 Focus Handle
- J. CFH-11 Focus Handle
- K. MCA-7 Mounting Clamp
- L. EPD-1CA/2CA Focus Demand
- M. ERD-10A-D01 Zoom Demand
- N. ALH-XB Support for HA36x/A36x HA42x



Digi Power Rear Control Kits

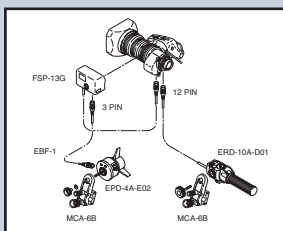
MS-11D Manual Focus/Servo Zoom

For use with RM/ZM type lenses.



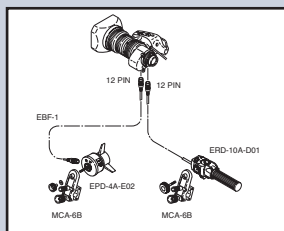
SS-11D Servo Focus/Servo Zoom

For use with RM/ZM type lenses.



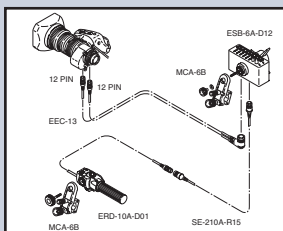
SS-13D Servo Focus/Servo Zoom

For use with RD/ZD type lenses.



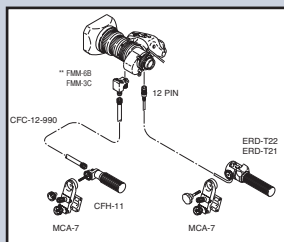
SS-14S Servo Focus/Servo Zoom

For use with RD/ZD type lenses.



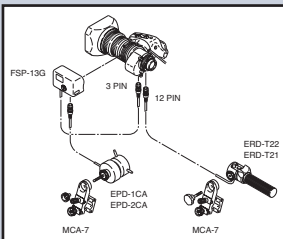
Standard Rear Control Kits

MS-11 Manual Focus/Servo Zoom



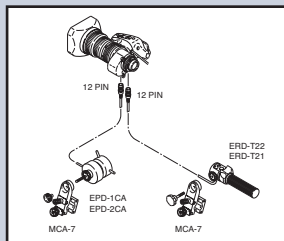
SS-11 Servo Focus/Servo Zoom

Not available on HA42x, HA36x and A36



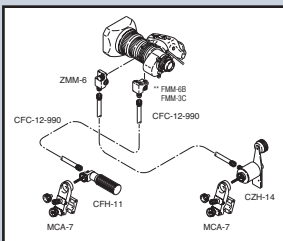
SS-13A Servo Focus/Servo Zoom

For use with ERD type lenses.



MM-11 Manual Focus/Manual Zoom

Not available on HA42x, HA36x and A36x



*Specify camera type

**FMM 6B for use on HA10x5, HA13x4.5, HA18x7.6, HA20x7.8, HA22x7.3, HA22x7.8, A13x4.5, A18x7.6, A22x7.8 — FMM 3C for use on A42x, HA42x and HA25x

Mounting System

Fujinon has replaced the "cone" shaped mounting system with the "tooth" system. The cone type may still be ordered as a special order.



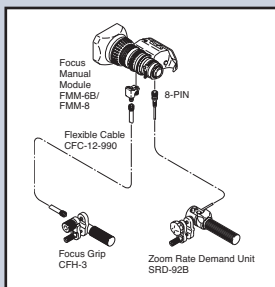
New Style
MCA-7



Old Style
MCA-1A
(Discontinued)

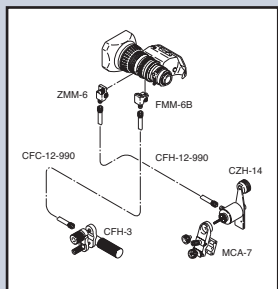
Professional Rear Control Kits

MS-01 Manual Focus/Servo Zoom



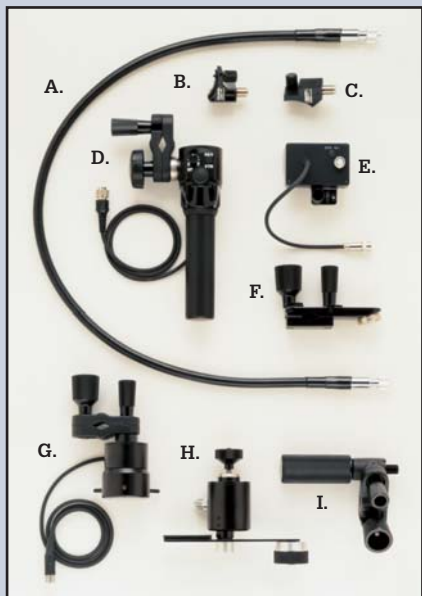
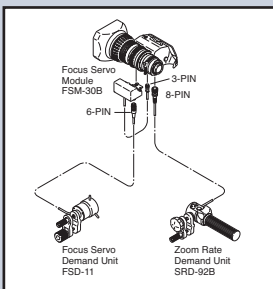
MM-01 Manual Focus/Manual Zoom

Not available on S16x7.3



SS-01 Servo Focus/Servo Zoom

Not available on S16x7.3



- A. CFC-990 Flex Cable
- B. FMM-6B/FMM-8* Focus Manual Module
- C. ZMM-6 Zoom Manual Module
- D. SRD-92B Zoom Demand
- E. FSM-30B Focus Servo Module
- F. MCA-7 Mounting Clamp
- G. FSD-11 Focus Demand
- H. CZH-14 Zoom Handle
- I. CFH-3 Focus Handle

*FMM-8 for use with S16 x7.3

Lens Converters



Wide Converter
(WCV)



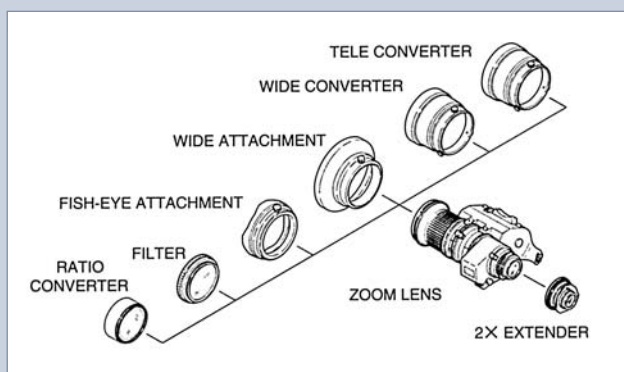
Tele Converter
(TCV)



Wide Attachment
(WAT)



Fish-Eye Attachment
(F-AT)



HD/ENG Lens Converters

| Model | Type | ø Size | Converter* | Mag. | Converted Focal Length (mm) | M.O.D. (m) | Weight (kg) |
|-----------|---------|--------|------------|-------|-----------------------------|------------|-------------|
| HA10x5E | WIDE | 85 mm | WAT-H85 | 0.83x | 5.0→4.2 | – | 0.42 |
| HA18x7.6E | TELE | 85 mm | TCV-H85 | 1.5x | 137.0→205.5 | 1.35 | 1.10 |
| | WIDE | 85 mm | WCV-H85 | 0.8x | 7.6→6.1 | 0.38 | 1.05 |
| | WIDE | 85 mm | WAT-H85 | 0.7x | 7.6→5.3 | – | 0.36 |
| | FISHEYE | 85 mm | F-ATH85 | 0.57x | – | – | 0.36 |
| HAs18x7.6 | TELE | 85 mm | TCV-H85 | 1.5x | 137.0→205.5 | 1.35 | 1.10 |
| | WIDE | 85 mm | WCV-H85 | 0.8x | 7.6→6.1 | 0.38 | 1.05 |
| | WIDE | 85 mm | WAT-H85 | 0.7x | 7.6→5.3 | – | 0.36 |
| | FISHEYE | 85 mm | F-ATH85 | 0.57x | – | – | 0.36 |
| HA22x7.3E | TELE | 110 mm | TCV-H110 | 1.5x | 161.0→242.0 | 1.90 | 1.10 |
| HA22x7.8E | TELE | 100 mm | TCV-H100 | 1.5x | 172.0→258.0 | 1.80 | 1.00 |
| | WIDE | 100 mm | WCV-H100 | 0.8x | 7.8→6.2 | 0.51 | 1.05 |
| | WIDE | 100 mm | WAT-H100 | 0.7x | 7.8→5.5 | – | 0.53 |
| | FISHEYE | 100 mm | F-ATH100 | 0.57x | – | – | 0.63 |

*TCV/WCV are zoom thru type **ø 95mm P-1 screw on type

Broadcast Lens Converters

| Model | Type | ø Size | Converter* | Mag. | Converted Focal Length (mm) | M.O.D. (m) | Weight (kg) |
|---------|---------|--------|--------------|---------------|-----------------------------|------------|-------------|
| A18x7.6 | TELE | 85 mm | TCV-85C | 1.6x | 137.0→219.0 | 1.54 | 1.15 |
| ERM/ERD | WIDE | 85 mm | WCV-85C/-L85 | 0.8x | 7.6→6.1 | 0.38 | 1.09/0.57 |
| | WIDE | 85 mm | WAT-85C | 0.7x | 7.6→5.3 | – | 0.55 |
| | FISHEYE | 85 mm | F-AT85C | Approx. 0.55x | – | – | 0.62 |
| | RATIO | 82 mm | RCV-82SC | 0.82x | 7.60→6.20 | 0.40 | 0.25 |
| A22x7.8 | TELE | 100 mm | TCV-100C | 1.6x | 172.0→275.2 | 2.05 | 1.06 |
| ERM/ERD | WIDE | 100 mm | WCV-100C | 0.8x | 7.8→6.2 | 0.51 | 1.09 |
| | WIDE | 95 mm | WAT95SC** | 0.7x | 7.8→5.5 | – | 0.41 |
| | FISHEYE | 95 mm | F-AT95SC** | Approx. 0.55x | – | – | 0.48 |

Professional Lens Converters

| Model | Type | ø Size | Converter | Mag. | Converted Focal Length (mm) | M.O.D. (m) | Weight (kg) |
|---------|---------|--------|--------------|---------------|-----------------------------|------------|-------------|
| A13x6.3 | TELE | 85 mm | TCV-85C | 1.6x | 82.0→131.2 | 1.02 | 1.15 |
| RM/ERM | WIDE | 85 mm | WCV-85C | 0.8x | 6.3→5.0 | 0.26 | 1.09 |
| | WIDE | 85 mm | WAT-85C | 0.7x | 6.3→4.4 | – | 0.55 |
| A20x8.6 | TELE | 85 mm | TCV-85C | 1.6x | 172.0→275.2 | 2.30 | 1.15 |
| RM/ERM | WIDE | 85 mm | WCV-85C/-L85 | 0.8x | 8.6→6.9 | 0.58 | 1.09/0.57 |
| | WIDE | 85 mm | WAT-85C | 0.7x | 8.6→6.0 | – | 0.55 |
| | FISHEYE | 85 mm | F-AT85C | Approx. 0.55x | – | – | 0.62 |
| | RATIO | 82 mm | RCV-82SC | 0.82x | 8.6→7.1 | 0.61 | 0.25 |
| S13x4.6 | TELE | 85 mm | TCV-85C | 1.6x | 60.0→96.0 | 1.02 | 1.03 |
| RM/ERM | WIDE | 85 mm | WCV-85C | 0.8x | 4.6→3.7 | 0.26 | 1.09 |
| | WIDE | 85 mm | WAT-85C | 0.7x | 4.6→3.2 | – | 0.55 |
| S17x6.6 | TELE | 85 mm | TCV-85C | 1.6x | 114→182.4 | 2.30 | 1.15 |
| RM | WIDE | 85 mm | WCV-85C | 0.8x | 6.6→5.3 | 0.58 | 1.09 |
| | WIDE | 85 mm | WAT-85C | 0.7x | 6.6→4.6 | – | 0.55 |
| | FISHEYE | 85 mm | F-AT85C | Approx. 0.55x | – | – | 0.62 |
| S20x6.4 | TELE | 85 mm | TCV-85C | 1.6x | 128.0→204.8 | 2.30 | 1.15 |
| RM/ERM | WIDE | 85 mm | WCV-85C/-L85 | 0.8x | 6.4→5.1 | 0.58 | 1.09/0.57 |
| | WIDE | 85 mm | WAT-85C | 0.7x | 6.4→4.5 | – | 0.55 |
| | FISHEYE | 85 mm | F-AT85C | Approx. 0.55x | – | – | 0.62 |

*TCV/WCV are zoom thru type **ø 95mm P-1 screw on type

Lens Controllers

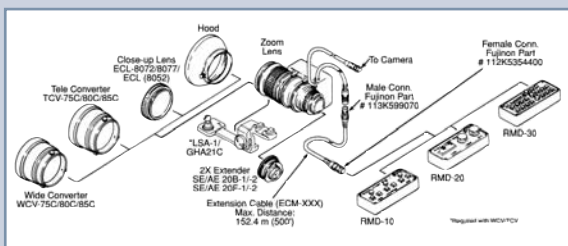
Fujinon's lens controllers all feature control of zoom, focus, and iris. The RMD-10 provides basic control of all functions, while the RMD-20 features a rocker-type zoom control. The RMD-30 provides for up to eight preset zoom and focus positions. Accessory cables up to 100 m are available.



Wide/Tele Adapters

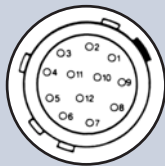
Fujinon's wide and tele converters attach easily to the front barrel of the lens to achieve greater wide or tele focal ranges. The 1.6X teleconverter increases the overall range 1.6 times, while the 0.8X wide converter reduces the standard focal length by a factor of 0.8X.

Rear-mounted 2X range extenders are available with and without back focus adjustment.



Electrical Interface of 12-pin Connector for Remote Control Box

- | | |
|------------------------------------|-----------------------------|
| 1. Focus Mode Select Signal | 7. Signal Com. |
| 2. Zoom Mode Select Signal | (Reference) +5v |
| 3. OV (Ground) | 8. Focus Control Signal |
| 4. Iris Local/Camera Select Signal | 9. Zoom Control Signal |
| 5. Iris Control Signal | 10. Iris Mode Select Signal |
| 6. +12 V Out | 11. +V Out (7.5v) |
| | 12. -V Out (2.5v) |



OS-TECH

Fujinon's anti-vibration system optically compensates for image vibration resulting in stable images even at extreme focal lengths. Three types of "OS-TECH" systems are available: two external anti-vibration adapters, TS for box-type lenses and TS-P for barrel-type lenses, and an internal type for box-type lenses.



TS-18A

Image After-Shaking Reduced to a Minimum

The after-shaking phenomenon of images moving after the pan/tilt operation is stopped is characteristic of an anti-vibration device. Fujinon's exclusive algorithm system has reduced the phenomenon to a minimum for a natural-feeling operation.



The XA101X lens with internal OS-TECH.

Type TS and TS-P Adapt to Existing Lenses

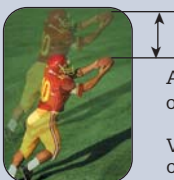
OS-TECH adapters can be quickly attached between most Fujinon lenses and the camera to provide the anti-vibration function. A single adapter provides stabilization for any adaptable lens. In addition to stabilization, the adapter increases the lens magnification by 1.25 times making extreme close-up shots possible with shorter focal length lenses.



TS-P58A

Amount of Compensation

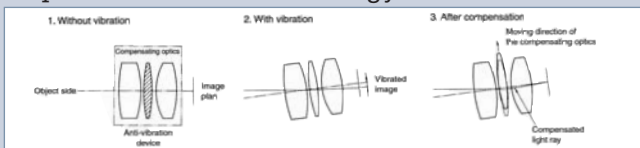
At Telephoto
End with
2X Extender



Approx. 20%
of Image Height

Vertical and Horizontal
or Vertical Only

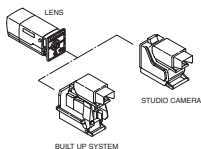
The Principal of Anti-vibration Device "Optical Stabilized Technology"



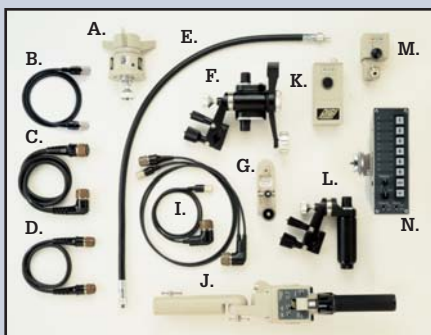
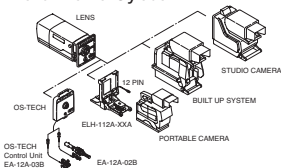
| Model | TS-P58A | TS-XXA* |
|-------------------------------|---|--|
| Stabilization System | Optical Shift | Optical Shift |
| Magnification of Focal Length | 1.25 | 1.25 |
| Mount | Bayonet Mount (2/3 in. B-type) | Bracket |
| Direction of Compensation | Vertical/Horizontal or Vertical Only | Vertical/Horizontal or Vertical Only |
| Frequency of Compensation | Approx. 1 to 10 Hz | Approx. 1 to 10 Hz |
| Anti-vibration Range | Approx. 20% of Vertical at Screen | Approx. 20% of Vertical at Screen |
| Power Consumption | DC12V, 4.2W (from camera) | DC12V, 6W (with battery or from camera) |
| Dimensions (L x W x H) | 58 x 120 x 150 mm | 277 x 260 x 47.5 mm |
| Mass | 0.84kg | 3.2kg |
| Adaptable Lenses | HA13x4.5 ERD, HA16x6.3BERM, HS16x4.6BERM, HAs18x7.6 ERD, HSs18x5.5 RD HA18x7.6 ERD, HA22x7.8 ERD, HA22x7.3 ERD HA25x16.5 ERD, HA25x11.5 ERD HA36x10.5 ERD, HA42x9.7 ERD, HA42x13.5 ERD, A13x4.5 ERD, A18x7.6 ERD, A22x7.8 ERD, A36x10.5 ERD, A36x14.5 ERD A42x9.7 ERD, A42x13.5 ERD | XA101x, XA87x, XA76x, XA72x Ah80x, Ah70x, Ah66x Ah60x, Ah55x |

*For external type only. Specify camera model when ordering.

Studio Lens System

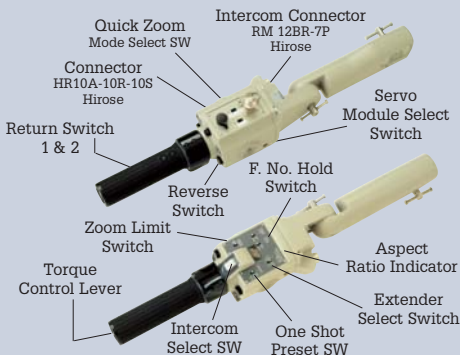


Field Lens System



- A. EPD-4A-D01 Focus Demand
- B. ESZ-12 Zoom Demand Cable
- C. ESL-1C Shot Box Cable
- D. ESF-1C Focus Shot Box Cable
- E. BFC-36 Flex Cable
- F. BZH-2A Zoom Handle
- G. MCA-6B Mounting Clamp
- H. EFZ-11D Focus/Zoom Cable
- I. ELZ-11B Zoom Demand Cable
- J. ERD-5A-D01 Zoom Rate Demand
- K. ESM-D51B/D52B Servo Module
- L. BFH-1A Focus Grip
- M. EMM-51B Manual Module
- N. ESB-6A-D01 Shot Box
- O. EPA-22 Not shown - see below

Digi Zoom Demand



Servos

Digital servos provide precise control of zoom and focus for the most demanding productions.



ELH*

Fujinon's convenient ELH bracket allows studio/field lenses to be used with hand-held type cameras.

*Additional power may be required for servos.

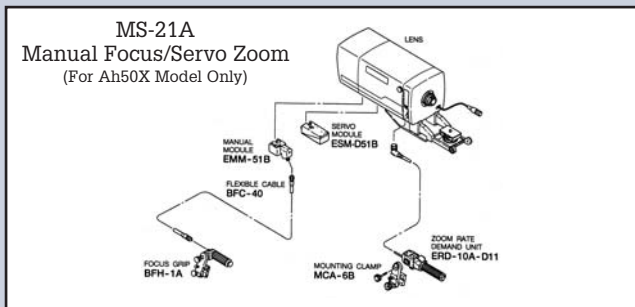


Three-mode Fine Focus

By shifting the sensitivity from the wide side to the telephoto side of the focus range, this control provides more precise focusing for studio or sports productions.

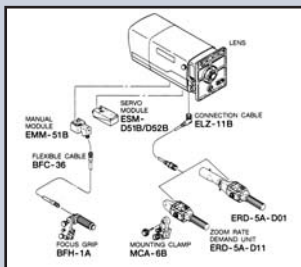
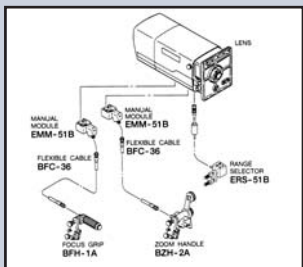


Analog Lens Configuration



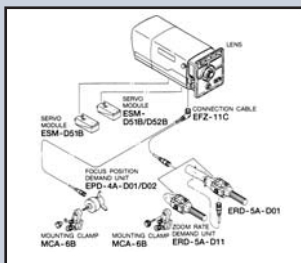
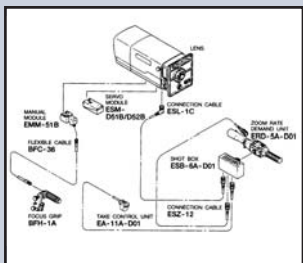
MM-21
Manual Focus/Manual Zoom

MS-21D
Manual Focus/Servo Zoom



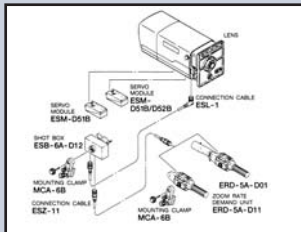
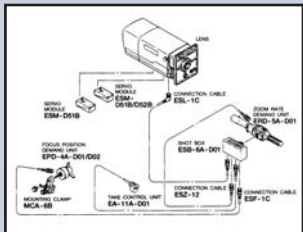
MS-22D (w/Shot Box)
Manual Focus/Servo Zoom

SS-21D
Servo Zoom/Servo Focus



SS-22D (w/Shot Box)
Servo Focus/Servo Zoom

SS-23D
(Shot Box w/Focus Demand)



Pan & Tilt Head Specifications



| MODEL | CPT-70F-02A | CPT-70D-02A** | EPT-7G-H2A |
|-----------------------------|--------------------|--------------------|--------------------|
| Pan Range | 300° | 270° | 300° |
| Pan Speed | 25° / Sec. | 9° / Sec. | 25° / Sec. |
| Tilt Speed | 20° / Sec. | 9° / Sec. | 20° / Sec. |
| Tilt Range | +/- 95° | +/- 95° | +/- 95° |
| Stopping Accuracy | +/- 5' | +/- 15' | +/- 10' |
| Lens Type | MD | MD | MD |
| Acoustic Noise | NC40db | NC40db | NC40db |
| Load Capacity | 4 kg / 8.8 lbs. | 10 kg / 22 lbs. | 4 kg / 8.8 lbs. |
| Power Consumption | DC 15V / 10W (max) | DC 15V / 10W (max) | DC 15V / 30W (max) |
| Operating Temperature | -10° C ~ +50° C | -10° C ~ +50° C | 0° C ~ +45° C |
| Power Source (ESC-103K-04A) | 15V DC | 15V DC | 15V DC |
| Drive System | DC Servo | DC Servo | DC Servo |
| Weight | 2.3 kg / 5.06 lbs. | 7 kg / 15.4 lbs. | 2.3 kg / 5.06 lbs. |
| Dimensions WxDxH (mm) | 130 x 102 x 222 | 233 x 277 x 226 | 130 x 102 x 222 |
| Max. Cable Length | 1350 m / 4430 ft. | 1350 m / 4430 ft. | 1350 m / 4430 ft. |

* From power supply (CPS-401A-10DA) **EOP-102J-60B not available on CPT-70D-02A

Pan & Tilt Controllers

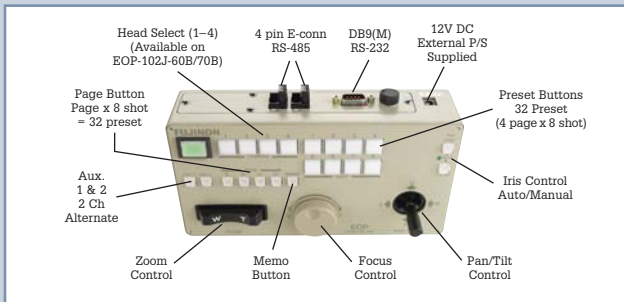


| | EOP-102J-30E | EOP-102J-60B | EOP-102J-70B |
|---------------------|---|--|--------------|
| Operation | RS-485 via twisted pair cable – E-connector/RS-232 via DB-9 connector | | |
| Pan / Tilt | Variable-speed joystick | | |
| Zoom | Variable-speed rocker switch | | |
| Focus | Variable-speed potentiometer | | |
| Iris | Close, open, auto, remote | | |
| Shot Memory | 32 | 32 per head | 32 per head |
| Back-up | Reservable for more than 5 years (Lithium battery) | | |
| Qty of Head Control | 1 | 4 | 4 |
| Auxiliary Input | 2 auxiliary relay contacts for controlling accessory equipment at the pan and tilt head | | |
| Power Source | 120 VAC via 12 VDC adapter (included) | | |
| Power Consumption | 5 W | | |
| Camera Control | | Camera On/Off Shutter Speed Gain Adjust, Color Bar Auto White, Auto Black | |
| Weight | Approximately 0.8 kg | | |



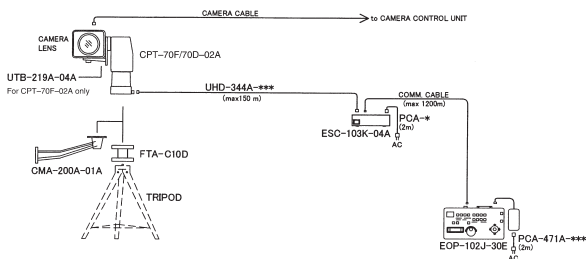
- | | | |
|-----------------|--|-----------------|
| A. EOP-102J-30E | G. CLH-8B | K. UHC-335J-XXX |
| B. EOP-102J-60B | H. UTB-219A-02A/04A | L. MX-462E-01A |
| C. EOP-102J-70B | I. UHD-344A-XXX | M. MX-462E-02A |
| D. ESC-103K-04A | J. Communication Cable Between EOP & ESC | |
| E. PS-470A-01A | | |
| F. UTB-219A-03A | | |

EOP-102J-70B

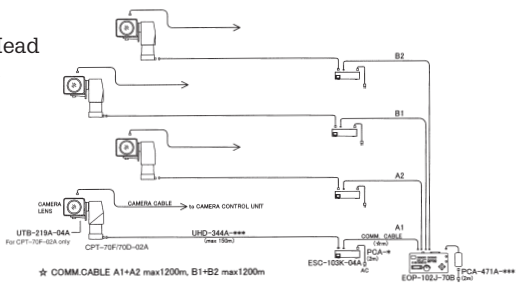


CPT-70F/70D Configurations

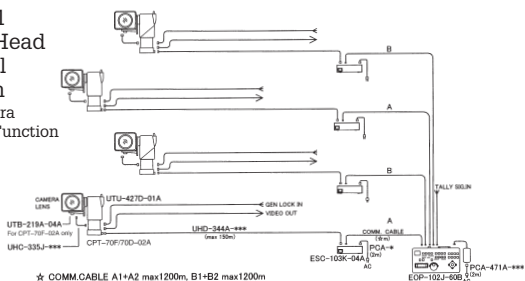
S1-BA1 Single-Head Control System



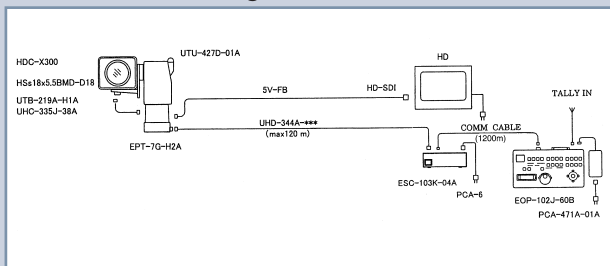
S2-BA1 Multi-Head Control System



S2-CA1 Multi-Head Control System w/ Camera Control Function

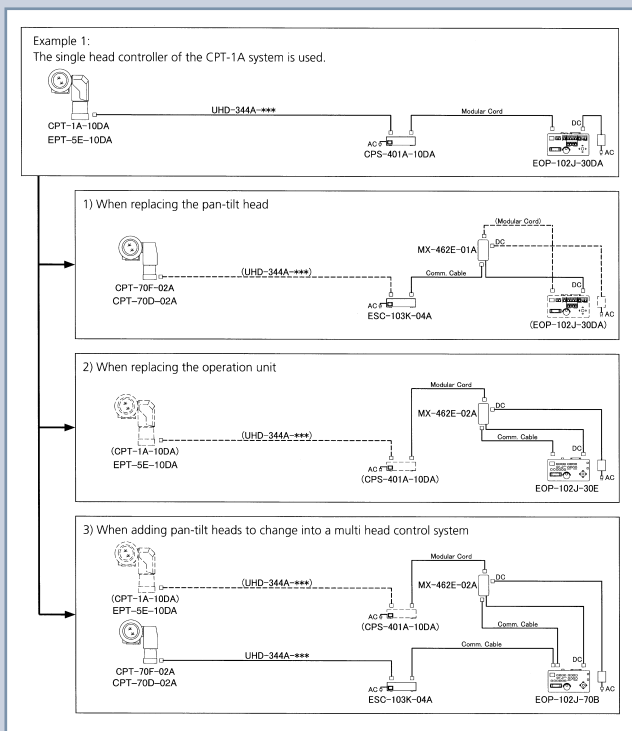


EPT-7G-H2A Configurations



Compatibility with existing systems.

Compatibility with existing CPT-1A and EPT-5E systems is possible by the utilization of certain adaptors. The diagrams below depict some common configuration scenarios.



FUJINON



Broadcast & Communications Products Division

FUJINON (Europe) GmbH

Germany

Halskestr. 4

47877 Willich, Germany

Tel: +49 (0) 2154 924 0

Fax: +49 (0) 2154 924 185

E-mail: fujinon@fujinon.de

www.fujinon.de

FUJINON (Europe) GmbH

Middle East

P.O. Box 18408

LOB 16, Room 419

Jebel Ali Free Zone

Dubai

U.A.E.

Tel: +971 4 887 3074

Fax: +971 4 887 3053

E-mail: fujinonm@emirates.net.ae

FUJINON (Europe) Succursale Francaise

France

43, Avenue des 3 Peuples

78180 Montigny-Le-Bretonneux, France

Tel: +33 1 3930 1616

Fax: +33 1 3043 7721

E-mail: fujinon@fujinon.fr

FUJINON CORPORATION:

Japan

1-324 Uetake, Kita-Ku, Saitama City

Saitama 331-9624 Japan

Phone: 81-48-668-2152 FAX: 81-48-651-8517

E-mail: sales@msv.fujinon.co.jp

www.fujinon.co.jp

www.fujinon.de



57th ANNUAL

Technology & Engineering
Emmy Awards Recipient