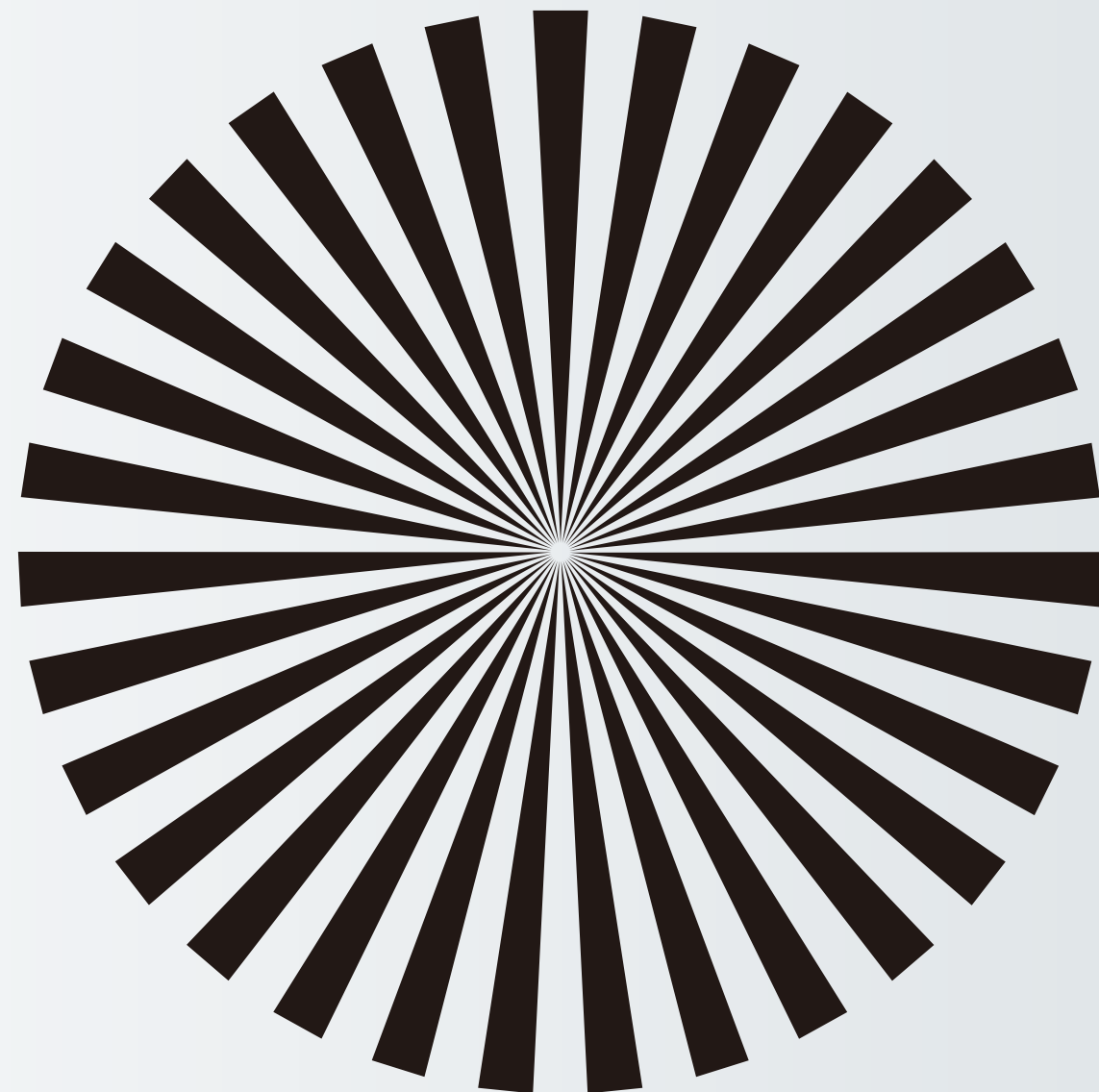


FUJINON



FUJIFILM
Value from Innovation



Focused on the Future

FUJINON

TELEVISION LENSES & CINE LENSES

2020

FUJIFILM

FUJIFILM Corporation

Optical Device & Electronic Imaging Product Division

http://www.fujifilm.com/products/optical_devices/tv_cine/

Due to a continuous process of product improvement, design and specification are subject to change without notice.



For Your Safety

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

Printed in Japan

Television Lenses

Fujifilm has been engaged in the development and production of TV Lenses for over 50 years. FUJINON TV Lenses have supported image creation throughout the world with our own unique technologies such as, optical design development, advanced manufacturing capabilities and exceptional quality. All FUJINON lenses are intentionally designed keeping in mind the optical, mechanical and electronic requirements of visual creators. Making use of our highly accurate design, manufacturing and assembly skills, Fujifilm will continue to develop unique products, and answer the diverse needs of videographers worldwide.

4K
ULTRA HD

HD
HIGH-DEFINITION

FUJINON Lens Model Explanation

Studio/Field Box Lenses

1 2 3 4 5 6 7 8 9
UA 107 x 8.4 B E SM - T 35 K

| | | | |
|---|----------------------------|--------------|---------------------------------------------|
| 1 | Camera Image Sensor Format | UA | 4K-UHD 2/3" Sensor Format |
| | | XA | HD 2/3" Sensor Format |
| | | HA | 2/3" Sensor Format |
| 2 | Zoom Ratio | | |
| 3 | Wide End of Focal Length | | |
| 4 | Bayonet Mount | | |
| 5 | Extender | E | with Extender |
| | | | |
| 6 | Lens Control Type | SM | Servo / Manual Module Interchangeable |
| | | S | Servo Only |
| | | S/T | Field Lens with OS-TECH |
| 7 | Lens Type | F | Studio Lens |
| | | D | Minibox Lens |
| | | | |
| 8 | Lens Mount | 35/48 | For Studio Standard Camera Mount (BTA Type) |
| 9 | Special Function | E | with 1.2x Extender |
| | | K | with AF |

ENG / EFP Portable Lenses

1 2 3 4 5 6 7 8
UXS 46s x 9.5 B E RD - UK ※※

| | | | |
|---|----------------------------------|------------|-----------------------------------------------------------------------------|
| 1 | ENG / EFP Portable Lens Category | U | UHD Premier Series |
| | | H | High Definition Premier Series |
| | | Z | High Definition Select Series |
| | | X | High Definition eXceed Series |
| 2 | Camera Image Sensor Format | A | 2/3" Sensor Format |
| | | S | 1/2" Sensor Format |
| | | T | 1/3" Sensor Format |
| 3 | Zoom Ratio | | |
| 4 | Wide End of Focal Length | | |
| 5 | Bayonet Mount | | |
| 6 | Extender | E | with Extender |
| | | | |
| 7 | Lens Control Type | RM | Zoom Servo, Focus Manual |
| | | RD | Zoom Servo, Focus Servo |
| | | ZD | Zoom Servo, Focus Servo, with Quick Frame |
| | | MD | Remote Control |
| 8 | Drive Unit Type | M | Digital Drive Unit / Zoom Servo, Focus Manual |
| | | S | Digital Drive Unit / Zoom Servo, Focus Servo |
| | | U | Digital Drive Unit / Zoom Servo, Focus Servo, with OS-TECH |
| | | G | Digital Drive Unit / Zoom Servo, Focus Servo, with OS-TECH, Extender Remote |
| | | T | Digital Drive Unit / Zoom Servo, Focus Servo, with Quick Frame |
| | | K | eXceed Drive Unit / Zoom Servo, Focus Manual |
| | | DSD | Remote Control Drive Unit / Video Control (Zoom, Focus, Iris) |
| | | 0 | without Digital Drive Unit |

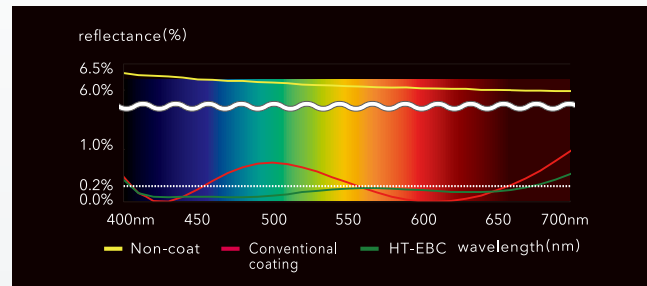


FUJINON Lens Technology

All large-diameter elements designed for broadcast lenses are the end result of our state of the art optical performance and high quality manufacturing technologies.

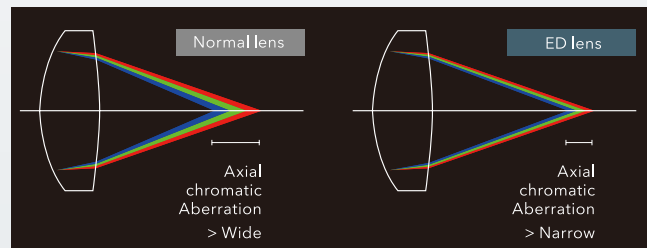
HT-EBC Coating (High Transmittance Electron Beam Coating)

HT-EBC (High Transmittance Electron Beam Coating) is the multi layer coating technology developed to enhance the many high performance lens elements used in broadcast lenses. Lenses with HT-EBC boast high transmittance and low reflectivity over a broad wavelength band. Thanks to the coating, flare and ghost are decreased and realizing high edge to edge transmittance.



ED-Glass (Extra-Low Dispersion)

By employing ED Glass elements, it is possible to significantly reduce chromatic aberrations. In addition, the reduced chromatic aberration is consistent from the center to the edge producing a superior image with high contrast and sharpness.



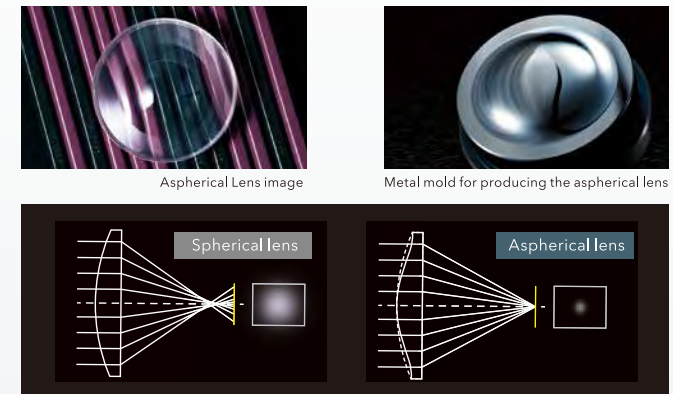
Technology for 8K

Fujifilm has been doing research and development for 8K Super Hi-Vision lenses. The Super Hi-Vision system offers an image beyond ultra high definition with 4,320 scanning lines and 33,000,000 pixels, 16 times that of the High-Vision system. A lens developed for Super Hi-vision must feature extremely high resolution as compared to current lenses. Current 4K High-Vision lenses can not meet the Super Hi-Vision resolution requirement. Thanks not only to our optical design and production technology but also to our latest optical simulation programs and special materials; Fujifilm has been able to achieve 8K optical performance. At the same time, current lens operability is possible by minimizing the lens size and by employing an electronically controlled drive unit. Currently, the 8K Super Hi-Vision lenses being tested under real shooting conditions with plans for their future introduction.



Aspherical Lens

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



Calcium Fluorite

It equipped fluorite which has high optical performance to broadcast lens. Contribute to suppress chromatic aberrations.

Design Concept

In addition, Fujifilm has employed ergonomic design principles for all operational parts based upon input from talented camera operators. All lenses are also designed to reduce the use of hazardous materials that could pollute the environment. One example is the use of eco-glass, which does not contain toxic substances.

Award of FUJINON Lens

Emmy Award

- 1996 Development of a TV Lens Adapted to CCD
- 2005 Developing High-Performance Lenses Adapted to Hi-Vision
- 2009 Precision Focus Technology
- 2017 Development of cine zoom lenses

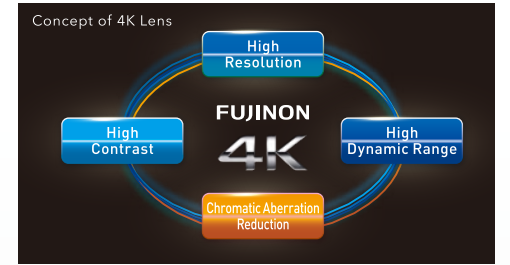


4K Ultra HD 2/3" Lenses for Broadcast -UA Series-

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

4K demands a higher dimension of performance, and the expanded FUJINON 4K broadcast lens lineup meets the challenge.

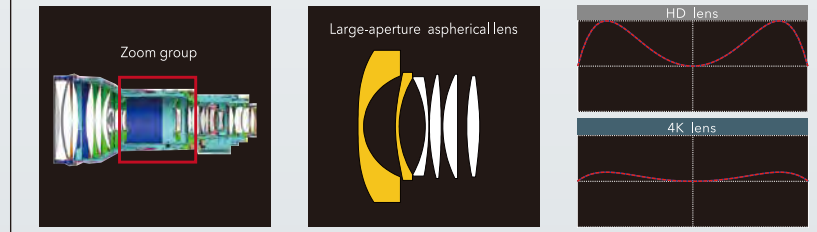
Extending the limits of "High Resolution", "High Contrast", "Chromatic Aberration Reduction" and "High Dynamic Range", FUJINON's cutting-edge optical technology presents the next standard in optical performance - image quality that exceeds the high expectations of imaging professionals.



| HD | 4K | HD | 4K | HD | 4K | HD | 4K |
|------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| | | | | | | | |
| High Resolution | | High Contrast | | Chromatic Aberration Reduction | | High Dynamic Range | |
| Resolution that matches the ultra-fine pitch of 4K pixels results in crisp and crystal clear images. | | Superb image sharpness is achieved by improving MTF even for low-frequency objects that are generally common in the image. | | The combination of fluorite ED (extra low dispersion) and super ED lens elements minimizes color fringing and delivers clear, crisp images. | | To take full advantage of the expanded dynamic range offered by HDR cameras, we rigorously suppress flare and faithfully transmit the important "blacks" in video image rendering. | |

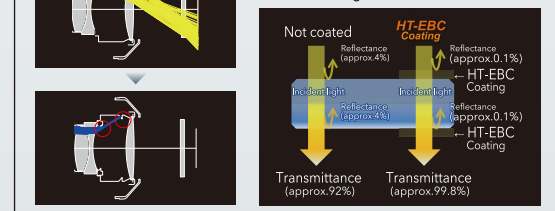
Key technology

- Multi-group zoom system**
By employing a multi-group zoom structure, aberrations are suppressed over the entire zoom range from wide angle to telephoto, realizing high image quality.
- Large-aperture aspherical lens**
Using a high-precision large-aperture aspherical lens element ensures high MTF to the very edges of the image.
- Improved surface accuracy**
Development of new polishing techniques and improvements in measurement precision achieve surface accuracy more than three times higher than that of HD, contributing to higher image quality.



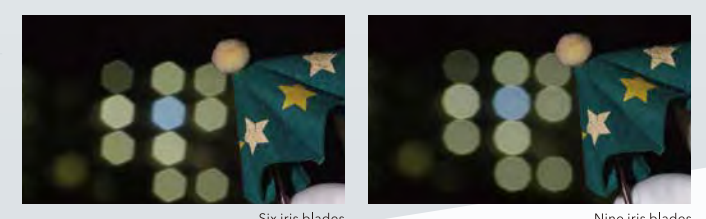
Key technology

- Development of new barrel design**
Optimizing the shape of the lens barrel interior as well as its surface treatment effectively suppresses ghosting and flares.
- New coating system**
Adopting HT-EBC coating technology that achieves a low 0.2% reflection or less over a wide spectrum of wavelengths keeps surface reflection of the lens to the absolute minimum and makes it possible to render truer "blacks". In addition, camera adjustment is easier because the transmittance balance is improved from the shortest to the longest visible wavelengths.



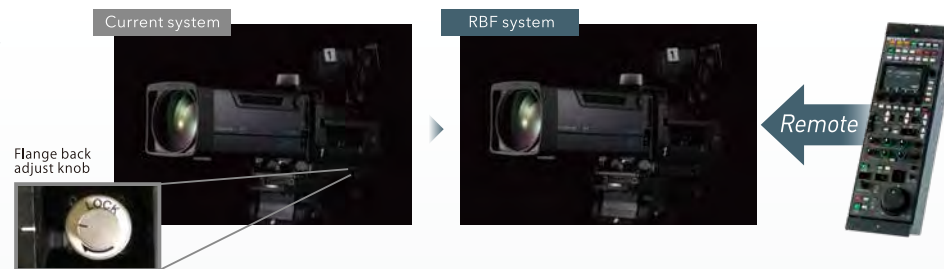
Natural bokeh achieved with nine iris blades

By adopting nine iris blades, FUJINON 4K lenses achieve a nearly circular aperture. This makes it possible to render images taking full advantage of a softer, more natural bokeh.



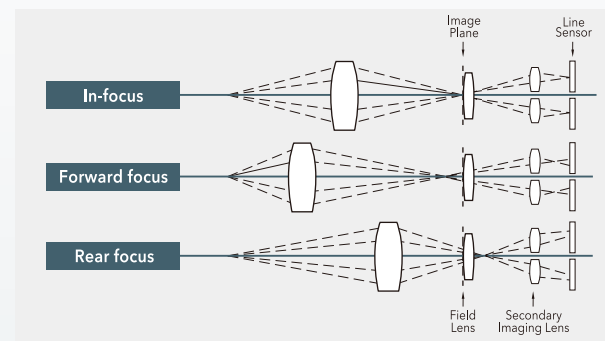
Remote Back Focus (RBF)

RBF enables precise remote control of back focus adjustments via the camera or robotic control panel while viewing a large video monitor in a studio production control room or mobile unit. During set up or if the shooting environment changes due to temperature, etc., the lens can be adjusted remotely at great distances, making more efficient shooting possible.



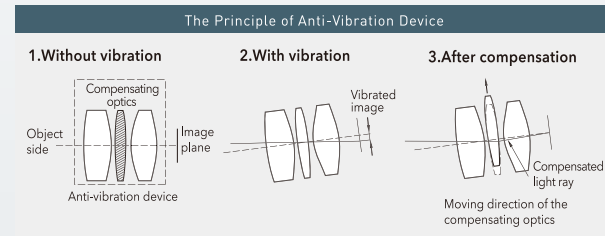
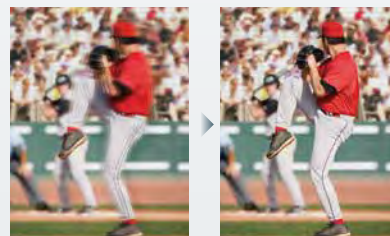
Advanced Focus System

The AF system uses FUJINON's proprietary phase detection system, enabling instant focusing without having to search for focus. This increases accuracy even in situations where focus is difficult to determine in the viewfinder. When shooting video, the operator can concentrate on zooming without worrying about focus control.



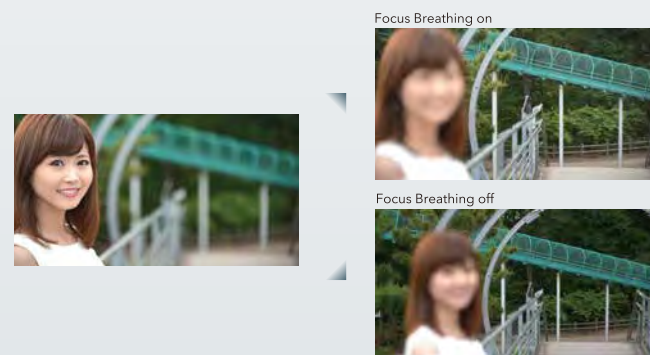
Optical Stabilized Technology OS-TECH

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



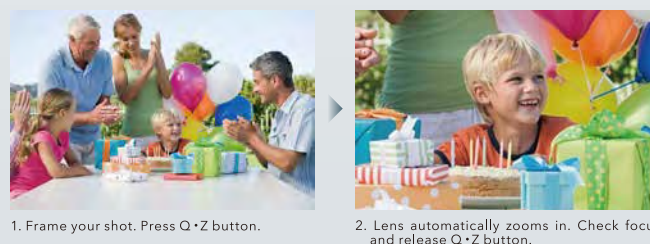
Breathing Compensation Technology(BCT)

Breathing Compensation Technology(BCT) synchronizes zoom movement with the focus movement to automatically correct for changes in the angle of view, thereby minimizing breathing and keeping the image size constant. BCT function eliminates the need to reset the angle of view after focusing, providing a high level of operability.



Quick Zoom QuickZoom

Quick Zoom is a function to temporarily zoom to a telephoto position simply by pressing and holding a switch. Releasing the switch returns the lens to its original position. Since it moves at maximum speed from the originating position to the telephoto end, it enables quick focus checks and fine tuning—helpful support for the user during video production.



Macro Function

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



※Macro Controller (option) enhances shooting.

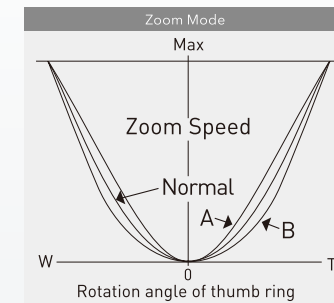


Macro controller EA-3A-10AB

Zoom/Focus Mode Selection Function

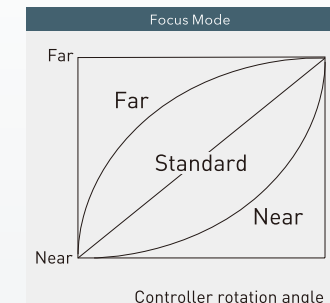
Zoom Mode Selection

The zoom demand makes it possible to select one of three different curves for how zoom speed varies according to the rotation angle of the thumb ring.



Focus Mode Selection

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



One Shot Preset

Zoom and focus can be preset at a selected position and stored in advance. One touch of the switch during shooting will instantly return to the stored position. This function is convenient when making frequent use of memorized positions during studio shoots or sports broadcasts.



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

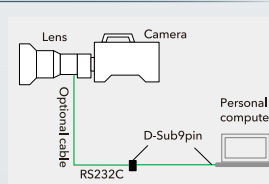
Virtual Connector

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



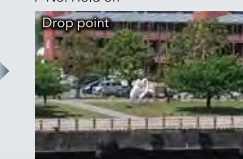
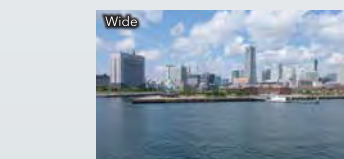
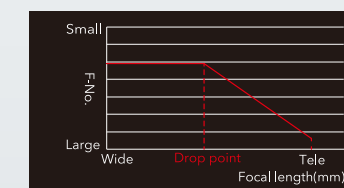
Serial Communication Control

Because the drive system is digital, this enables control of zoom, focus, and iris through a serial communication interface on a PC. It also enables read-out of their respective position information, making this digital system an extremely powerful tool in a wide range of operating environments.



F-Number Hold

When a broadcast TV lens zooms from wide angle to telephoto, F-drop occurs, which causes the open F value to become dark. F-No. Hold limits the zoom position to a point before F-drop begins, making it possible to reduce the workload during video production.



Quick Frame (Optional)

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



2/3" Studio / Field Box Lenses

| Horizontal Field of View (16:9) | 73 | 69 | 62 | 59 | 58 | 56 | 54 | 48 | 3.6 | 3.1 | 1.0 | 0.9 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 |
|---------------------------------|-----|----|----|-----|-----|----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Focal Length (mm) 2/3" | 6.5 | 7 | 8 | 8.4 | 8.7 | 9 | 9.5 | 10.8 | 154 | 180 | 525 | 610 | 720 | 732 | 832 | 864 | 900 | 1000 |
| UA80x9 1.2xEXT(1x) | | | | | | | | | | | | | | | | | | |
| UA80x9 1.2xEXT(1.2x) | | | | | | | | | | | | | | | | | | |
| UA125x8 | | | | | | | | | | | | | | | | | | |
| UA27x6.5 | | | | | | | | | | | | | | | | | | |
| UA70x8.7 | | | | | | | | | | | | | | | | | | |
| UA107x8.4 | | | | | | | | | | | | | | | | | | |
| XA22x7 | | | | | | | | | | | | | | | | | | |
| HA27x6.5 | | | | | | | | | | | | | | | | | | |
| XA55x9.5 | | | | | | | | | | | | | | | | | | |
| XA77x9.5 | | | | | | | | | | | | | | | | | | |
| XA99x8.4 | | | | | | | | | | | | | | | | | | |

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

| Horizontal Field of View (16:9) | 94 | 82 | 67 | 64 | 63 | 62 | 59 | 54 | 53 | 45 | 39 | 32 | 10 | 9.3 | 8.7 | 5.5 | 4.2 | 4.0 | 3.4 | 3.3 | 3.2 | 3.1 | 3.1 | 2.9 | 1.9 | 1.3 | 1.3 | 1.3 | 1.0 | 0.9 | | |
|---------------------------------|-----|-----|-----|-----|-----|----|-----|-----|-----|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Focal Length (mm) | 4.5 | 5.5 | 7.3 | 7.6 | 7.8 | 8 | 8.5 | 9.5 | 9.7 | 11.5 | 13.5 | 16.5 | 54 | 59 | 63 | 100 | 130 | 137 | 161 | 167 | 170 | 175 | 176 | 187 | 288 | 410 | 413 | 437 | 570 | 621 | | |
| UA13x4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA22x8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA24x7.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA46x9.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA46x13.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA14x4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA18x5.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA18x7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UA23x7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA14x4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA18x5.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA18x7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA22x7.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA23x7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA25x11.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA25x16.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA42x9.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA42x13.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZA12x4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZA17x7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZA22x7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XA20sx8.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| Horizontal Field of View (16:9) | 93 | 65 | 58 | 9.3 | 4.3 | 3.2 |
|---------------------------------|-----|-----|-----|-----|-----|-----|
| Focal Length (mm) | 3.3 | 5.5 | 6.3 | 43 | 94 | 126 |
| XS13x3.3 | | | | | | |
| ZS17x5.5 | | | | | | |
| XS20sx6.3 | | | | | | |

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

| Horizontal Field of View (16:9) | 64 | 60 | 58 | 3.9 | 3.9 | 3.2 |
|---------------------------------|-----|-----|-----|-----|-----|-----|
| Focal Length (mm) | 4.2 | 4.5 | 4.7 | 76 | 77 | 94 |
| HTs18x4.2 | | | | | | |
| XT17sx4.5 | | | | | | |
| XT20sx4.7 | | | | | | |

4K Plus Premier Series

Flagship series with surpassing 4K optical performance



NEW



| Model Name | UA80x9BESM 1.2x EXT | UA125x8BESM |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Focal Length (1x)/(1.2x)/(2x) | 9-720mm/10.8-864mm/18-1440mm | 8-1000mm /- 16-2000mm |
| Zoom Ratio | 80 x | 125x |
| Extender | 1.2 x 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1:1.7 (9-350mm) 1:3.5 (720mm) | 1:1.7(8-340mm) 1:5.0(1000mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 3.7m | 3.0m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 9mm 3501mm x 1968mm 720mm 46mm x 26mm (1.2x) 10.8mm 3009mm x 1692mm 864mm 39mm x 22mm (2x) 18mm 1816mm x 1021mm 1440mm 23mm x 13mm | (1x) 8mm 3198mm x 1799mm 1000mm 27mm x 15mm (2x) 16mm 1677mm x 943mm 2000mm 14mm x 8mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 9mm 56.1° x 33.3° 720mm 0.8° x 0.4° (1.2x) 10.8mm 47.9° x 28.0° 864mm 0.6° x 0.4° (2x) 18mm 29.8° x 17.0° 1440mm 0.4° x 0.2° | (1x) 8mm 61.9° x 37.2° 1000mm 0.55° x 0.31° (2x) 16mm 33.4° x 19.1° 2000mm 0.27° x 0.15° |
| Approx. Size | 258 x 264 x 610mm(HxWxL) | 258 x 264 x 635mm(HxWxL) |
| Approx. Mass | 23.5kg | 26.6kg |

4K Premier Series

Excellent 4K optical performance for versatile shooting scene



| Model Name | UA27x6.5BESM | UA70x8.7BESM |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 6.5-180mm / 13-360mm | 8.7mm-610mm / 17.4mm-1220mm |
| Zoom Ratio | 27 x | 70 x |
| Extender | 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1:1.5(6.5-123mm) 1:2.2(180mm) | 1:1.7(8.7-340mm) 1:3.05(610mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.6m | 3.05m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 6.5mm 1063 x 597mm 180mm 38 x 21mm (2x) 13mm 529 x 297mm 360mm 20 x 11mm | (1x) 8.7mm 2935mmx1651mm 610mm 44mmx25mm (2x) 17.4mm 1537mmx865mm 1220mm 23mmx13mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 6.5mm 72.8° x 45.0° 180mm 3.1° x 1.7° (2x) 13mm 40.5° x 23.4° 360mm 1.5° x 0.9° | (1x) 8.7mm 57.7°x34.4° 610mm 0.9°x0.5° (2x) 17.4mm 30.8°x17.6° 1220mm 0.5°x0.3° |
| Approx. Size | 258 x 264 x 536mm(HxWxL) | 258x264x610mm(HxWxL) |
| Approx. Mass | 22.8kg | 23.8kg |



NEW



AF
ADVANCED FOCUS

| Model Name | UA107x8.4BESM | UA107x8.4BESM AF |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 8.4-900mm / 16.8-1800mm | 8.4-900mm / 16.8-1800mm |
| Zoom Ratio | 107 x | 107 x |
| Extender | 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1:1.7 (8.4-340mm) 1:4.5 (900mm) | 1:1.7(8.4-340mm) 1:4.5(900mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 3.05m | 3.05m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 8.4mm 3053mm x 1717mm 900mm 30mm x 17mm (2x) 16.8mm 1594mm x 896mm 1800mm 15mm x 9mm | (1x) 8.4mm 3052mm x 1717mm 900mm 30mm x 17mm (2x) 16.8mm 1594mm x 896mm 1800mm 15mm x 9mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 8.4mm 59.4° x 35.6° 900mm 0.6° x 0.3° (2x) 16.8mm 31.9° x 18.2° 1800mm 0.3° x 0.2° | (1x) 8.4mm 59.4°x35.6° 900mm 0.6°x0.3° (2x) 16.8mm 31.9°x 18.2° 1800mm 0.3°x 0.2° |
| Approx. Size | 258 x 264 x 610mm(HxWxL) | 258 x 264 x 670mm(HxWxL) |
| Approx. Mass | 23.9kg | 26.0kg |

Studio / Field Box Lenses

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



MINIBOX



| Model Name | XA22x7BES | | | | HA27x6.5BESM | | | |
|--------------------------------------------------|---------------------------------|---------------|------|-------|-----------------------------------|------|---------------|-------|
| Focal Length (1x)/(2x) | 7-154mm / 14-308mm | | | | 6.5-180mm / 13-360mm | | | |
| Zoom Ratio | 22 x | | | | 27 x | | | |
| Extender | 2 x | | | | 2 x | | | |
| Maximum Relative Aperture (F-No.) | 1 : 1.8(7-116mm) 1 : 2.4(154mm) | | | | 1 : 1.5(6.5-123mm) 1 : 2.2(180mm) | | | |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.8m | | | | 0.6m | | | |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) | 1197 x 673mm | | (2x) | 599 x 337mm | | | |
| | 7mm | 54 x 31mm | 14mm | 308mm | 27 x 15mm | 13mm | 527 x 296mm | 360mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) | 68.8° x 42.1° | | (2x) | 37.8° x 21.8° | | | |
| | 7mm | 3.6° x 2° | 14mm | 308mm | 1.8° x 1° | 13mm | 40.5° x 23.4° | 360mm |
| Approx. Size | 179 x 187 x 340mm(HxWxL) | | | | 233 x 231 x 539mm(HxWxL) | | | |
| Approx. Mass | 6.6kg | | | | 22.3kg | | | |

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



| Model Name | XA55x9.5BESM | | | | XA77x9.5BESM | | | |
|--------------------------------------------------|---------------------------------|---------------|------|--------|-----------------------------------|-------|---------------|--------|
| Focal Length (1x)/(2x) | 9.5-525mm / 19-1050mm | | | | 9.5-732mm / 19.0-1464mm | | | |
| Zoom Ratio | 55 x | | | | 77 x | | | |
| Extender | 2 x | | | | 2 x | | | |
| Maximum Relative Aperture (F-No.) | 1:1.7(9.5mm-308mm) 1:2.9(525mm) | | | | 1 : 1.7(9.5-335mm) 1 : 3.8(732mm) | | | |
| Minimum Object Distance (M.O.D.) from Front Lens | 3.0m | | | | 2.7m | | | |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) | 2782 x 1564mm | | (2x) | 1406 x 790mm | | | |
| | 9.5mm | 51 x 29mm | 19mm | 1050mm | 26 x 15mm | 9.5mm | 2425 x 1363mm | 19.0mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) | 53.6° x 31.7° | | (2x) | 28.3° x 16.1° | | | |
| | 9.5mm | 1° x 0.6° | 19mm | 1050mm | 0.5° x 0.3° | 9.5mm | 53.6° x 31.7° | 18.6mm |
| Approx. Size | 253 x 253 x 876mm(HxWxL) | | | | 253 x 253 x 656.4mm(HxWxL) | | | |
| Approx. Mass | 24.8kg | | | | 22.4kg | | | |

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

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



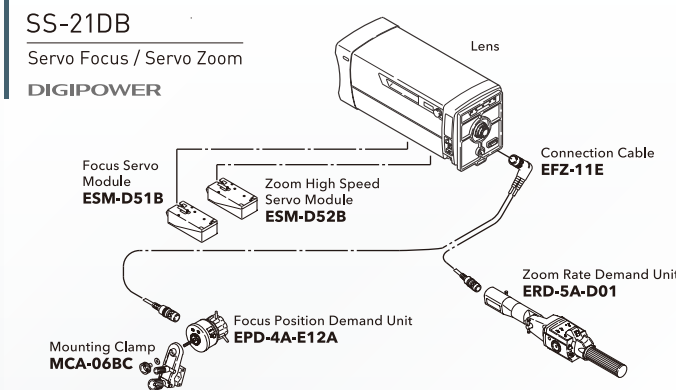
| Model Name | XA99x8.4BESM | | | | | | | |
|--------------------------------------------------|------------------------------------|---------------|--------|--------|---------------|-------|---------------|--------|
| Focal Length (1x)/(2x) | 8.4-832mm / 16.8-1664mm | | | | | | | |
| Zoom Ratio | 99 x | | | | | | | |
| Extender | 2 x | | | | | | | |
| Maximum Relative Aperture (F-No.) | 1 : 1.7(8.4-341mm) 1 : 4.15(832mm) | | | | | | | |
| Minimum Object Distance (M.O.D.) from Front Lens | 2.95m | | | | | | | |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) | 2950 x 1658mm | | (2x) | 1538 x 864mm | | | |
| | 8.4mm | 31 x 17mm | 16.8mm | 1664mm | 16 x 9mm | 8.4mm | 59.4° x 35.6° | 16.8mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) | 59.4° x 35.6° | | (2x) | 31.9° x 18.2° | | | |
| | 8.4mm | 0.7° x 0.4° | 16.8mm | 1664mm | 0.3° x 0.2° | 8.4mm | 0.7° x 0.4° | 16.8mm |
| Approx. Size | 258 x 264 x 610mm(HxWxL) | | | | | | | |
| Approx. Mass | 23.5kg | | | | | | | |

Studio/Field Lens System Configuration

SS-21DB

Servo Focus / Servo Zoom

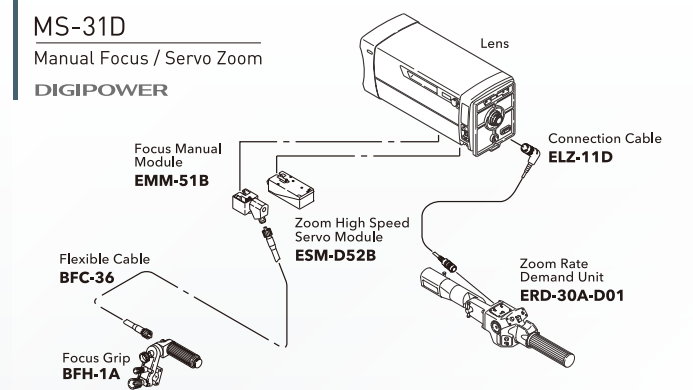
DIGIPOWER



MS-31D

Manual Focus / Servo Zoom

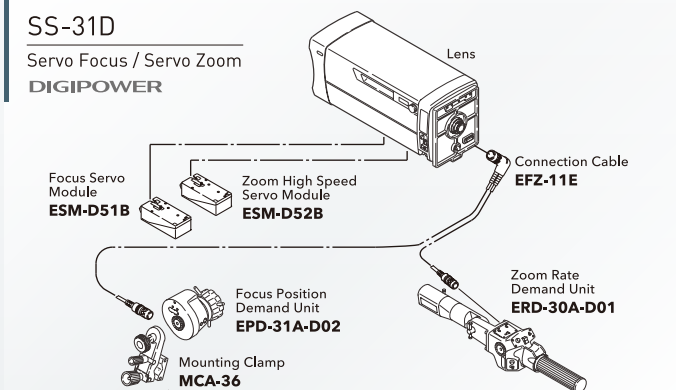
DIGIPOWER



SS-31D

Servo Focus / Servo Zoom

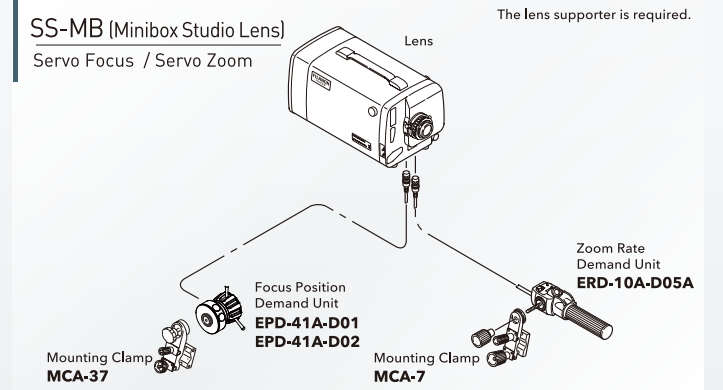
DIGIPOWER



SS-MB (Minibox Studio Lens)

Servo Focus / Servo Zoom

The lens supporter is required.



Control Accessories List

| Lens Focus/Zoom Drive Unit | Servo Digital | Description | Model Name |
|----------------------------|--------------------------------|-----------------------------------------------|---------------|
| | Digital | Zoom High Speed Module | ESM-D52B/D53B |
| | Digital | Focus Servo Module | ESM-D51B |
| Focus | Manual | Manual Focus/Zoom Module | EMM-51B |
| | Servo Digital | Focus Position Demand Unit | EPD-51A-F02 |
| Zoom | Servo Digital | Focus Position Demand Unit | EPD-31A-D02 |
| | | Mounting Clamp for EPD-31A-D01 | MCA-36 |
| | Mounting Clamp for EPD-51A-F02 | MCA-51 | |
| | Focus Position Demand Unit | EPD-4A-E12A | |
| | AF Focus Position Demand Unit | EPD-4A-S13F | |
| | Mounting Clamp | MCA-06BC | |
| | Servo Focus Grip | EPA-22 | |
| | Manual Focus Grip | BFH-1A | |
| | Manual | Zoom Rate Demand Unit | ERD-30A-D01 |
| | Manual | Zoom Rate Demand Unit | ERD-5A-D01 |
| Other | Manual | Zoom Manual Handle (For HD) Only | BZH-2A |
| | | Connection Cable (Y Cable for Full-Servo Kit) | EFZ-11E |
| | | Connection Cable (Cable for Semi-Servo Kit) | ELZ-11D |
| | | Flexible Cable | BFC-36 |
| | | Range Selector | ERS-51B |
| | | Macro Remote Controller | EA-3A-10AB |
| | | OS-TECH Controller | EA-12A-05BD |
| | | PC Connection Cable | SA-206D-005 |
| | | Lens Supporter (For BTA Mount) | ELH-112A-35A* |
| | | Protection Glass (UA27) | EPF-196A |
| | Protection Glass (UA70,80,107) | EPF-226C | |
| | Protection Glass (UA125) | EPF-241 | |

*An external power supply is required when you use a supporter (ELH-112A-35A)

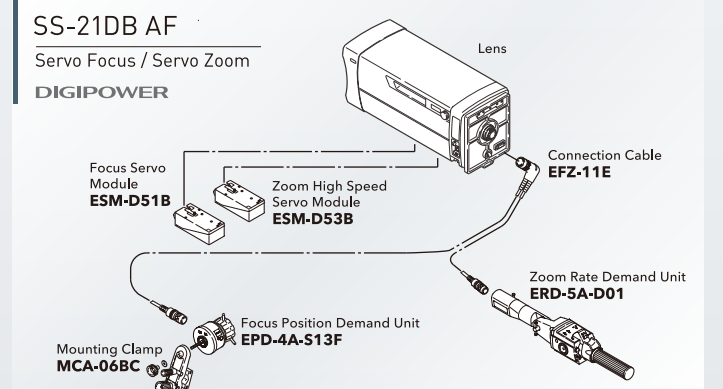
Control Accessories for XA22x7BES (Minibox)

| | Description | Model Name |
|-------|-------------------------------------------|-----------------|
| Focus | Focus Position Demand Unit | EPD-41A-D01/D02 |
| | Mounting Clamp | MCA-37 |
| Zoom | Zoom Demand (Featured x2 Extender Remote) | ERD-10A-D05A |
| | Mounting Clamp | MCA-7 |
| Other | Lens Supporter | ALH-117C-02A |

SS-21DB AF

Servo Focus / Servo Zoom

DIGIPOWER



4K Plus Premier Series

Flagship series with surpassing 4K optical performance



| Model Name | UA13x4.5BERD | | UA22x8BERD | |
|--------------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| Focal Length (1x)/(2x) | 4.5-59mm / 9-118mm | | 8.0-176mm / 16-352mm | |
| Zoom Ratio | 13 x | | 22 x | |
| Extender | 2 x | | 2 x | |
| Maximum Relative Aperture (F-No.) | 1:1.8 (4.5-41mm) 1:2.6 (59mm) | | 1:1.8 (8-124mm) 1:2.55 (176mm) | |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.3m | | 0.85m | |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 4.5mm 744mm x 418mm 59mm 54mm x 30mm | (2x) 9mm 367mm x 206mm 118mm 28mm x 16mm | (1x) 8mm 905mm x 509mm 176mm 43mm x 24mm | (2x) 16mm 472mm x 265mm 352mm 22mm x 12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 4.5mm 93.6° x 61.8° 59mm 9.3° x 5.2° | (2x) 9mm 56.1° x 33.3° 118mm 4.7° x 2.6° | (1x) 8mm 61.9° x 37.2° 176mm 3.1° x 1.8° | (2x) 16mm 33.4° x 19.1° 352mm 1.6° x 0.9° |
| Filter Thread | M127 x 0.75 (Filter attaches to the lens hood) | | M110 x 0.75 (Filter attaches to the lens hood) | |
| Approx. Size | Ø95 x 253mm (ØxLength) | | Ø110 x 241.5mm (ØxLength) | |
| Approx. Mass | 2.28kg (without lens hood) | | 2.55kg (without lens hood) | |



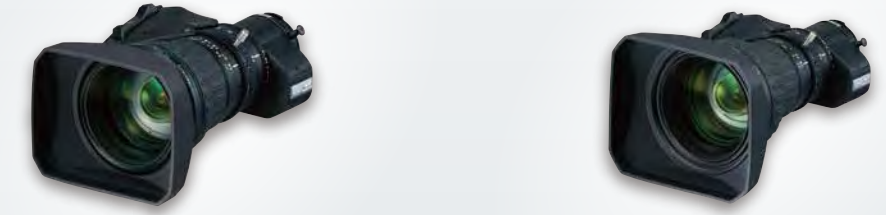
| Model Name | UA24x7.8BERD | | UA46x9.5BERD | | UA46x13.5BERD | |
|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|------------------------------------------------|---------------------------------------------|-------------------------------------------------|----------------------------------------------|
| Focal Length (1x)/(2x) | 7.8-187mm / 15.6-374mm | | 9.5mm-437mm / 19-874mm | | 13.5mm-621mm / 27-1242mm | |
| Zoom Ratio | 24 x | | 46 x | | 46 x | |
| Extender | 2 x | | 2 x | | 2 x | |
| Maximum Relative Aperture (F-No.) | 1:1.8(7.8-118mm) 1:2.85(187mm) | | 1:2.0(9.5mm-224mm) 1:3.9(437mm) | | 1:2.8(13.5mm-316mm) 1:5.5(621mm) | |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.8m | | 2.8m | | 2.8m | |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 7.8mm 883mm x 496mm 187mm 38mm x 21mm | (2x) 15.6mm 459mm x 258mm 374mm 20mm x 11mm | (1x) 9.5mm 2653mmx1491mm 437mm 59mmx33mm | (2x) 19mm 1331x748mm 874mm 30x17mm | (1x) 13.5mm 1886mmx1060mm 621mm 42mmx24mm | (2x) 27mm 936mmx526mm 1242mm 21mmx12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 7.8mm 63.2° x 38.1° 187mm 2.9° x 1.7° | (2x) 15.6mm 34.2° x 19.6° 374mm 1.5° x 0.8° | (1x) 9.5mm 53.6°x31.7° 437mm 1.3°x0.7° | (2x) 19mm 28.3°x16.1° 874mm 0.6°x0.4° | (1x) 13.5mm 39.1°x22.6° 621mm 0.9°x0.5° | (2x) 27mm 20.1°x11.4° 1242mm 0.4°x0.2° |
| Filter Thread | M95 x 1 / M107 x 1 (Filter attaches to the lens hood) | | M127 x 0.75 | | M127 x 0.75 | |
| Approx. Size | Ø100 x 220.5mm (ØxLength) | | Ø146.5 x 345.8(ØxLength) | | Ø146.5 x 364.2(ØxLength) | |
| Approx. Mass | 1.98kg (without lens hood) | | 5.7kg(without lens hood) | | 5.8kg(without lens hood) | |

4K Premier Series

Excellent 4K optical performance for versatile shooting scene



| Model Name | UA14x4.5BERD | | UA18x5.5BERD | |
|--------------------------------------------------|-------------------------------------------------|------------------------------------------------|--------------------------------------------------|-------------------------------------------------|
| Focal Length (1x)/(2x) | 4.5-63mm / 9-126mm | | 5.5-100mm / 11-200mm | |
| Zoom Ratio | 14 x | | 18 x | |
| Extender | 2 x | | 2 x | |
| Maximum Relative Aperture (F-No.) | 1:1.8 (4.5-41mm) 1:2.8(63mm) | | 1:1.8(5.5-62mm) 1:2.9(100mm) | |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.3m | | 0.4m | |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 4.5mm 744mm x 418mm 63mm 51mm x 29mm | (2x) 9mm 365mm x 205mm 126mm 27mm x 15mm | (1x) 5.5mm 800mm x 450mm 100mm 44mm x 25mm | (2x) 11mm 395mm x 222mm 200mm 22mm x 12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 4.5mm 93.6° x 61.8° 63mm 8.7° x 4.9° | (2x) 9mm 56.1° x 33.3° 126mm 4.4° x 2.5° | (1x) 5.5mm 82.2° x 52.2° 100mm 5.5° x 3.1° | (2x) 11mm 47.1° x 27.5° 200mm 2.7° x 1.5° |
| Filter Thread | M127 x 0.75 (Filter attaches to the lens hood) | | M127 x 0.75 (Filter attaches to the lens hood) | |
| Approx. Size | Ø95 x 238.5mm (ØxLength) | | Ø95 x 240.5mm (ØxLength) | |
| Approx. Mass | 2.21kg (without lens hood) | | 2.04kg (without lens hood) | |



| Model Name | UA18x7.6BERD | | UA23x7.6BERD | |
|--------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| Focal Length (1x)/(2x) | 7.6-137mm / 15.2-274mm | | 7.6-175mm / 15.2-350mm | |
| Zoom Ratio | 18x | | 23x | |
| Extender | 2 x | | 2 x | |
| Maximum Relative Aperture (F-No.) | 1:1.8(7.6-102mm) 1:2.4(137mm) | | 1:1.8(7.6-119mm) 1:2.65(175mm) | |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.6m | | 0.8m | |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 7.6mm 696mm x 392mm 137mm 41mm x 23mm | (2x) 15.2mm 362mm x 204mm 274mm 21mm x 12mm | (1x) 7.6mm 915mm x 514mm 175mm 41mm x 23mm | (2x) 15.2mm 473mm x 266mm 350mm 21mm x 12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 7.6mm 64.5°x39° 137mm 4°x2.3° | (2x) 15.2mm 35°x20.1° 274mm 2°x1.1° | (1x) 7.6mm 64.5°x39° 175mm 3.1°x1.8° | (2x) 15.2mm 35°x20.1° 350mm 1.6°x0.9° |
| Filter Thread | M82x0.75 | | M95x1 / M107x1(Filter attaches to lens hood) | |
| Approx. Size | Ø85x204mm(ØxLength) | | Ø100x221.4mm(ØxLength) | |
| Approx. Mass | 1.74kg (without lens hood) | | 1.95kg (without lens hood) | |

ENG / EFP Portable Lenses

Premier Series

Premier Series lenses are designed to complement and enhance the quality of HDTV systems. Great consideration in the design and development of these high-end HD lenses has been taken to incorporate the highest optical and mechanical specifications while ensuring unmatched performance in the most rugged and demanding of production environments.



| Model Name | HA14x4.5BERM / BERD | HA18x5.5BERM / BERD | HA18x7.6BERM / BERD |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x)/(2.2x) | 4.5-63mm / 9.9-139mm | 5.5-100mm / 11-200mm /- | 7.6-137mm / 15.2-274mm /- |
| Zoom Ratio | 14 x | 18 x | 18 x |
| Extender | 2.2 x | 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1 : 1.8 (4.5-41mm) 1 : 2.8 (63mm) | 1:1.8(5.5mm-62mm) 1:2.9(100mm) | 1 : 1.8 (7.6-103mm) 1 : 2.4 (137mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.3m | 0.4m | 0.6m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 4.5mm 744 x 418mm 63mm 51 x 29mm (2.2x) 9.9mm 330 x 185mm 139mm 24 x 13mm | (1x) 5.5mm 800 x 450mm 100mm 44 x 25mm (2x) 11mm 395 x 222mm 200mm 22 x 12mm | (1x) 7.6mm 696 x 392mm 137mm 41 x 23mm (2x) 15.2mm 362 x 204mm 274mm 21 x 12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 4.5mm 93.6° x 61.8° 63mm 8.7° x 4.9° (2.2x) 9.9mm 51.7° x 30.5° 139mm 4° x 2.2° | (1x) 5.5mm 82.2° x 52.2° 100mm 5.5° x 3.1° (2x) 11mm 47.1° x 27.5° 200mm 2.7° x 1.5° | (1x) 7.6mm 64.5° x 39° 137mm 4° x 2.3° (2x) 15.2mm 35° x 20.1° 274mm 2° x 1.1° |
| Filter Thread | M127 x 0.75 (Filter attaches to the lens hood.) | M127 x 0.75 (Filter attaches to the lens hood) | M82 x 0.75 |
| Approx. Size | Φ95 x 238.5mm(ΦxLength) | Φ95 x 240.5mm(ΦxLength) | Φ85 x 204mm(ΦxLength) |
| Approx. Mas | 2.18kg(RM) / 2.26kg(RD) (without lens hood) | 1.97kg(RM) / 2.04kg(RD) (without lens hood) | 1.62kg(RM) / 1.69kg(RD) (without lens hood) |

SELECT Series

Select Series lenses are designed to meet the high performance needs of the next generation of cost-effective high performance HD camera systems. Fujifilm's unique Select Series concept for HDTV lenses was directly derived from our high-end Premier Series technology.



| Model Name | ZA12x4.5BERM / BERD | ZA17x7.6BERM / BERD | ZA22x7.6BERM / BERD |
|--------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 4.5-54mm / 9-108mm | 7.6-130mm / 15.2-260mm | 7.6-167mm / 15.2-334mm |
| Zoom Ratio | 12 x | 17 x | 22 x |
| Extender | 2 x | 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1 : 1.8 (4.5-41mm) 1 : 2.4 (54mm) | 1 : 1.8 (7.6-102mm) 1 : 2.3 (130mm) | 1 : 1.8 (7.6-120mm) 1 : 2.5 (167mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.3m | 0.6m | 0.8m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 4.5mm 757 x 425mm 54mm 59 x 33mm (2x) 9mm 373 x 210mm 108mm 31 x 17mm | (1x) 7.6mm 696 x 392mm 130mm 43 x 24mm (2x) 15.2mm 362 x 204mm 260mm 22 x 12mm | (1x) 7.6mm 915 x 514mm 167mm 43 x 24mm (2x) 15.2mm 473 x 266mm 334mm 22 x 12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 4.5mm 93.6° x 61.8° 54mm 10.1° x 5.7° (2x) 9mm 56.1° x 33.3° 108mm 5.1° x 2.9° | (1x) 7.6mm 64.5° x 39° 130mm 4.2° x 2.4° (2x) 15.2mm 35° x 20.1° 260mm 2.1° x 1.2° | (1x) 7.6mm 64.5° x 39° 167mm 3.3° x 1.8° (2x) 15.2mm 35° x 20.1° 334mm 1.6° x 0.9° |
| Filter Thread | M127 x 0.75 (Filter attaches to the lens hood.) | M82x0.75 | M95x1 / M107x1 (Filter attaches to the lens hood.) |
| Approx. Size | Φ95 x 237.5mm(ΦxLength) | Φ85 x 203mm(ΦxLength) | Φ100 x 220.4mm(ΦxLength) |
| Approx. Mass | 2.0kg (RM) / 2.07kg (RD) (without lens hood) | 1.67kg (RM) / 1.74kg (RD) (without lens hood) | 1.85kg (RM) / 1.92kg (RD) (without lens hood) |

*BRM/BRD type are also available. For more information, please contact nearest our FUJIFILM office.



| Model Name | HA22x7.3BERD | HA23x7.6BERM / BERD | HA25x11.5BERD |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 7.3-161mm / 14.6-322mm | 7.6-175mm / 15.2-350mm | 11.5-288mm / 23-576mm |
| Zoom Ratio | 22 x | 23 x | 25 x |
| Extender | 2 x | 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1 : 1.9(7.3-113mm) 1 : 2.7(161mm) | 1 : 1.8 (7.6-119mm) 1 : 2.65 (175mm) | 1 : 2 (11.5-206mm) 1 : 2.8 (288mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.85m | 0.8m | 2.2m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 7.3mm 1222 x 687mm 161mm 55 x 31mm (2x) 14.6mm 609 x 342mm 322mm 28 x 16mm | (1x) 7.6mm 915 x 514mm 175mm 41 x 23mm (2x) 15.2mm 473 x 266mm 350mm 21 x 12mm | (1x) 11.5mm 1740 x 978mm 288mm 70 x 39mm (2x) 23mm 870 x 489mm 576mm 35 x 20mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 7.3mm 66.6° x 40.5° 161mm 3.4° x 1.9° (2x) 14.6mm 36.4° x 20.9° 322mm 1.7° x 1° | (1x) 7.6mm 64.5° x 39° 175mm 3.1° x 1.8° (2x) 15.2mm 35° x 20.1° 350mm 1.6° x 0.9° | (1x) 11.5mm 45.3° x 26.4° 288mm 1.9° x 1.1° (2x) 23mm 23.6° x 13.4° 576mm 1° x 0.5° |
| Filter Thread | M127 x 0.75 (Filter attaches to the lens hood.) | M95 x 1 / M107 x 1 (Filter attaches to the lens hood.) | M107 x 1 / M127 x 0.75 (Filter attaches to the lens hood.) |
| Approx. Size | Φ110 x 287.3mm(ΦxLength) | Φ100 x 221.4mm(ΦxLength) | Φ110 x 265mm(ΦxLength) |
| Approx. Mass | 3.22kg(RD) (without lens hood) | 1.88kg(RM) / 1.95kg(RD) (without lens hood) | 2.81kg (without lens hood) |



| Model Name | XA20sx8.5BRM | XA20sx8.5BERM |
|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 8.5-170mm/- | 8.5-170mm / 17-340mm |
| Zoom Ratio | 20 x | 20 x |
| Extender | - | 2 x |
| Maximum Relative Aperture (F-No.) | 1 : 1.8 (8.5-113mm) 1 : 2.7 (170mm) | 1 : 1.8 (8.5-113mm) 1 : 2.7 (170mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.9m | 0.9m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 8.5mm 910 x 511mm 170mm 47 x 26mm (2x) - | (1x) 8.5mm 910 x 511mm 170mm 47 x 26mm (2x) 17mm 469 x 264mm 340mm 24 x 13mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 8.5mm 58.9° x 35.2° 170mm 3.2° x 1.8° (2x) - | (1x) 8.5mm 58.9° x 35.2° 170mm 3.2° x 1.8° (2x) 17mm 31.5° x 18° 340mm 1.6° x 0.9° |
| Filter Thread | M82 x 0.75 | M82 x 0.75 |
| Approx. Size | Φ85 x 180.8mm(ΦxLength) | Φ85 x 200.8mm(ΦxLength) |
| Approx. Mass | 1.5kg (without lens hood) | 1.6kg (without lens hood) |



| Model Name | HA25x16.5BERD | HA42x9.7BERD | HA42x13.5BERD |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 16.5-413mm / 33-826mm | 9.7-410mm / 19.4-820mm | 13.5-570mm / 27-1140mm |
| Zoom Ratio | 25 x | 42 x | 42 x |
| Extender | 2 x | 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1 : 2.8 (16.5-289mm) 1 : 4 (413mm) | 1 : 2.9(7-225mm) 1 : 3.7 (410mm) | 1 : 2.8 (13.5-307mm) 1 : 5.2 (570mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 2.2m | 2.8m | 2.8m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 16.5mm 1213 x 682mm 413mm 49 x 27mm (2x) 33mm 606 x 341mm 826mm 24 x 14mm | (1x) 9.7mm 2619 x 1472mm 410mm 64 x 36mm (2x) 19.4mm 1339 x 753mm 820mm 33 x 19mm | (1x) 13.5mm 1888 x 1061mm 570mm 45 x 25mm (2x) 27mm 944 x 530mm 1140mm 22 x 13mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 16.5mm 32.4° x 18.6° 413mm 1.3° x 0.7° (2x) 33mm 16.5° x 9.3° 826mm 0.7° x 0.4° | (1x) 9.7mm 52.6° x 31.1° 410mm 1.3° x 0.8° (2x) 19.4mm 27.8° x 15.8° 820mm 0.7° x 0.4° | (1x) 13.5mm 39.1° x 22.6° 570mm 1° x 0.5° (2x) 27mm 20.1° x 11.4° 1140mm 0.5° x 0.3° |
| Filter Thread | M107 x 1 / M127 x 0.75 (Filter attaches to the lens hood.) | M127 x 0.75 | M127 x 0.75 |
| Approx. Size | Φ110 x 278mm(ΦxLength) | Φ130 x 338.5mm(ΦxLength) | Φ130 x 357.5mm(ΦxLength) |
| Approx. Mass | 2.9kg (without lens hood) | 5.3kg (without lens hood) | 5.4kg (without lens hood) |

1/2" Series

SELECT Series



| Model Name | XS13x3.3BRM | ZS17x5.5BERM | XS20sx6.3BRM |
|--------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Focal Length (1x)/(2x) | 3.3-43mm /- | 5.5-94mm / 11-188mm | 6.3-126mm /- |
| Zoom Ratio | 13 x | 17 x | 20 x |
| Extender | - | 2 x | - |
| Maximum Relative Aperture (F-No.) | 1 : 1.4 (3.3-32mm) 1 : 1.9 (43mm) | 1 : 1.4 (5.5-77mm) 1 : 1.7 (94mm) | 1 : 1.4 (6.3-88mm) 1 : 2.0 (126mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.3m | 0.6m | 0.9m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 3.3mm 752 x 423mm 43mm 54 x 30mm (2x) - | (1x) 5.5mm 698 x 399mm 94mm 42 x 24mm (2x) 11mm 363 x 204mm 188mm 22 x 12mm | (1x) 6.3mm 904 x 508mm 126mm 47 x 26mm (2x) - |
| Angular Field of View 16:9 Aspect Ratio | (1x) 3.3mm 93.1° x 61.4° 43mm 9.3° x 5.2° (2x) - | (1x) 5.5mm 64.7° x 39.2° 94mm 4.3° x 2.4° (2x) 11mm 35.2° x 20.2° 188mm 2.1° x 1.2° | (1x) 6.3mm 57.9° x 34.6° 126mm 3.2° x 1.8° (2x) - |
| Filter Thread | M127 x 0.75 (Filter attaches to the lens hood.) | M82 x 0.75 | M82 x 0.75 |
| Approx. Size | Φ95 x 240.5mm(ΦxLength) | Φ85 x 206.6mm(ΦxLength) | Φ85 x 181.9mm(ΦxLength) |
| Approx. Mass | 1.93kg (without lens hood) | 1.67kg (without lens hood) | 1.4kg (RM) (without lens hood) |

1/3" Series

PREMIER Series

eXceed Series



| Model Name | HTs18x4.2BERM | XT17s4.5BRM | XT20s4.7BRM |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Focal Length (1x)/(2x) | 4.2–76mm / 8.4–152mm | 4.5–77mm / - | 4.7–94mm / - |
| Zoom Ratio | 18 x | 17 x | 20 x |
| Extender | 2 x | - | - |
| Maximum Relative Aperture (F-No.) | 1 : 1.4 (4.2–76mm) 1 : 2.8 (8.4–152mm) | 1 : 1.6 (4.5–77mm) | 1 : 1.4 (4.7–88mm) 1 : 1.5 (94mm) |
| Minimum Object Distance (M.O.D.) from Front Lens | 0.6m | 0.95m | 0.9m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 4.2mm 697 x 392mm 76mm 41 x 23mm (2x) 8.4mm 360 x 202mm 152mm 21 x 12mm | (1x) 4.5mm 999 x 562mm 77mm 60 x 34mm (2x) - | (1x) 4.7mm 901 x 506mm 94mm 47 x 26mm (2x) - |
| Angular Field of View 16:9 Aspect Ratio | (1x) 4.2mm 63.8° x 38.6° 76mm 3.9° x 2.2° (2x) 8.4mm 34.6° x 19.9° 152mm 2° x 1.1° | (1x) 4.5mm 60.3° x 36.2° 77mm 3.9° x 2.2° (2x) - | (1x) 4.7mm 58.2° x 34.7° 94mm 3.2° x 1.8° (2x) - |
| Filter Thread | M82 x 0.75 | M82 x 0.75 | M82 x 0.75 |
| Approx. Size | Φ85 x 214.1mm(ΦxLength) | Φ85 x 175.6mm(ΦxLength) | Φ85 x 189.8mm(ΦxLength) |
| Approx. Mass | 1.66kg (without lens hood) | 1.28kg (without lens hood) | 1.48kg (without lens hood) |

Remote Control Lenses



| Model Name | ZA12x4.5BMD* | ZA17x7.6BMD* | ZA22x7.6BMD* |
|-----------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 4.5–54mm / 9–108mm | 7.6–130mm / 15.2–260mm | 7.6–167mm / 15.2–334mm |
| Zoom Ratio | 12 x | 17 x | 22 x |
| Extender | 2 x | 2 x | 2 x |
| Maximum Relative Aperture (F-No.) | 1 : 1.8(4.5–41mm) 1 : 2.4(54mm) | 1 : 1.8(7.6–102mm) 1 : 2.3(130mm) | 1 : 1.8(7.6–120mm) 1 : 2.5(167mm) |
| Minimum Object Distance (M.O.D.) | 0.3m | 0.6m | 0.8m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 4.5mm 757 x 425mm 54mm 59 x 33mm (2x) 9mm 373 x 210mm 108mm 31 x 17mm | (1x) 7.6mm 696 x 392mm 130mm 43 x 24mm (2x) 15.2mm 362 x 204mm 260mm 22 x 12mm | (1x) 7.6mm 915 x 514mm 167mm 43 x 24mm (2x) 15.2mm 473 x 266mm 334mm 22 x 12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 4.5mm 93.6° x 61.8° 54mm 10.1° x 5.7° (2x) 9mm 56.1° x 33.3° 108mm 5.1° x 2.9° | (1x) 7.6mm 64.5° x 39° 130mm 4.2° x 2.4° (2x) 15.2mm 35° x 20.1° 260mm 2.1° x 1.2° | (1x) 7.6mm 64.5° x 39° 167mm 3.3° x 1.8° (2x) 15.2mm 35° x 20.1° 334mm 1.6° x 0.9° |
| Filter Thread | M127 x 0.75 (Filter attaches to the lens hood.) | M82 x 0.75 | M95 x 1 / M107 x 1 (Filter attaches to the lens hood.) |
| Approx. Size | Φ95 x 237.5mm(ΦxLength) | Φ85 x 203mm(ΦxLength) | Φ100 x 220.4mm(ΦxLength) |
| Approx. Mass | 1.88kg (without lens hood) | 1.60kg (without lens hood) | 1.8kg (without lens hood) |

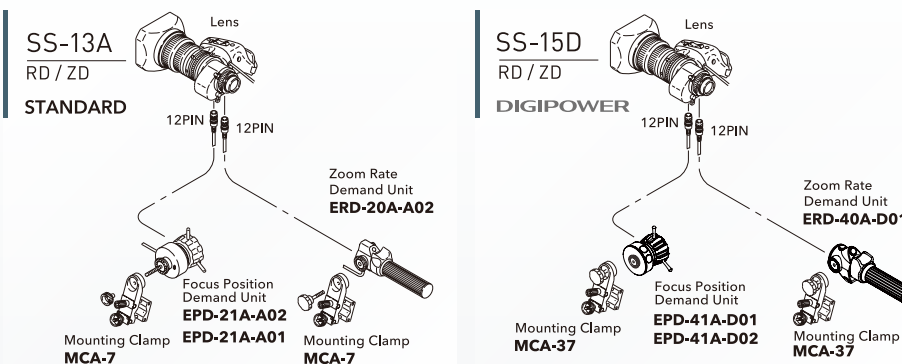
*BEMD type is also available. For more information, please contact nearest our FUJIFILM office.



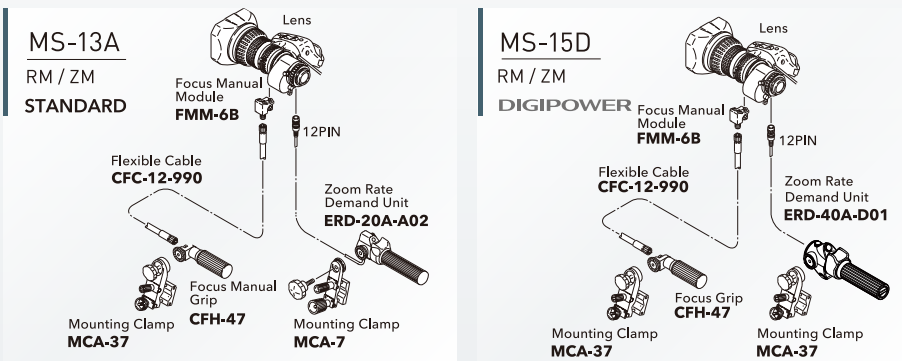
| Model Name | XA20s8.5BMD | XA20s8.5BEMD |
|-----------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Focal Length (1x)/(2x) | 8.5–170mm / - | 8.5–170mm / 17–340mm |
| Zoom Ratio | 20 x | 20 x |
| Extender | - | 2 x |
| Maximum Relative Aperture (F-No.) | 1:1.8(8.5–113mm) 1:2.7(170mm) | 1:1.8(8.5–113mm) 1:2.7(170mm) |
| Minimum Object Distance (M.O.D.) | 0.9m | 0.9m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 8.5mm 910 x 511mm 170mm 47 x 26mm (2x) - | (1x) 8.5mm 910 x 511mm 170mm 47 x 26mm (2x) 17mm 469 x 264mm 340mm 24 x 13mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 8.5mm 58.9° x 35.2° 170mm 3.2° x 1.8° (2x) - | (1x) 8.5mm 58.9° x 35.2° 170mm 3.2° x 1.8° (2x) 17mm 31.5° x 18° 340mm 1.6° x 0.9° |
| Filter Thread | M82 x 0.75 | M82 x 0.75 |
| Approx. Size | Φ85 x 180.8mm(ΦxLength) | Φ85 x 180.8mm(ΦxLength) |
| Approx. Mass | 1.5kg (without lens hood) | 1.6kg (without lens hood) |

ENG/EFP Portable Lens System Configuration

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



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



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

| HA18 x 7.6 BE RM | | Lens Drive Unit Type | | | |
|-------------------------|---------|----------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|-------|
| | | Description | Model Name | RM | RD/ZD |
| Focus | Manual | Focus Grip | CFH-47 | ● | ● |
| | | Mounting Clamp | MCA-37 | ● | ● |
| | | Flexible Cable | CFC-12-990 | ● | ● |
| | | Focus Manual Module | FMM-6B | ● | ● |
| Focus | Servo | Digital Focus Position Demand Unit | EPD-41A-D01 / D02 | ● | ● |
| | | Mounting Clamp | MCA-37 | ● | ● |
| | | Focus Position Demand Unit | EPD-21A-A01 / A02 | ● | ● |
| | | Mounting Clamp | MCA-7 | ● | ● |
| | | Focus Servo Position Module | FSP-13G | ●*1 | ● |
| | | Digital Shot Box | ESB-6C-E12B | ● | ● |
| | | Mounting Clamp | MCA-06BC | ● | ● |
| Zoom | Servo | Digital Zoom Rate Demand Unit | ERD-40A-D01 | ● | ● |
| | | Mounting Clamp | MCA-37 | ● | ● |
| | | Zoom Rate Demand Unit | ERD-20A-A02 | ● | ● |
| Other | | Mounting Clamp | MCA-7 | ● | ● |
| | | VTR Control Unit | VRS-20 | ● | ● |
| | | Return Control Unit | EXT-30 | ● | ● |
| | | Lens Supporter | ALH-127A-01A (for 46x series, for 42x series) | ● | ● |
| | | External OS-TECH Adapter | TS-P58A (HA14, HA18, HA22, HA23, HA25, HA42) | ● | ● |
| | | OS-TECH Control Unit | EA-12A-03BA | ● | ● |
| | | Extension Cable For Focus Position Demand Unit/Zoom Rate Demand Unit | ECE-1000 (1m) / -2000 (2m) / -3000 (3m) / -4000 (4m) / -5000 (5m) / -10000 (10m)*2 | ● | ● |
| | | Cable for Lens ↔ PC | SA-206D-005 / SA-206A-005 *3 | ● | ● |
| | | 2x Extender Change Unit (Motor Drive) | ECU-2C | ● | ● |
| | | ECU Adapter (for UA22x) | ECU-1AD | ● | ● |
| ECU Adapter (for UA13x) | ECU-2AD | ● | ● | | |

*1: It is available only with EPD-21-A01/A02 *2: Longer Cables are also available *3: SA-206A-005 is specifically designed for HA25x, HA42x

Digital Zoom Demand

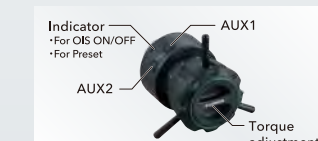
ERD-40A-D01



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

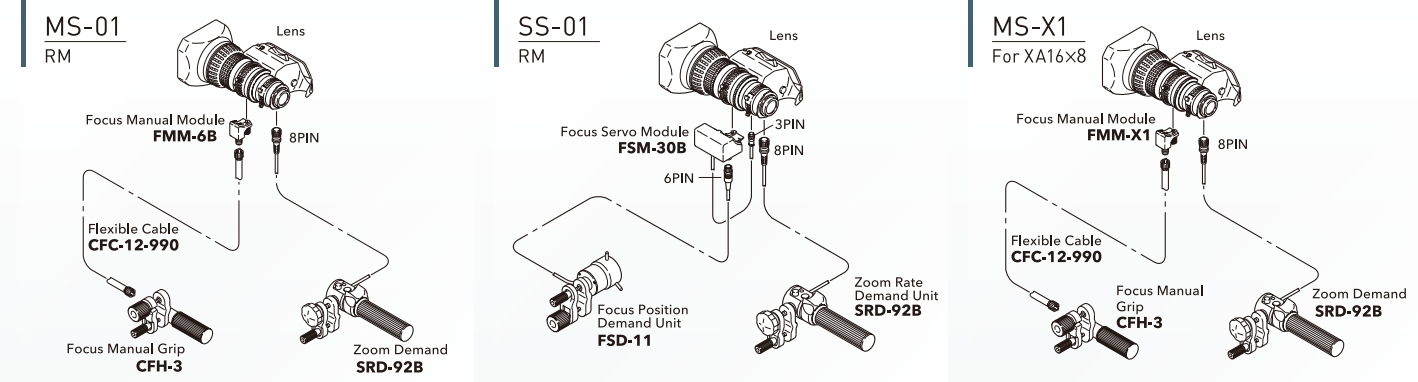
Digital Focus Demand

EPD-41A-D01/ D02



| | DIP No. | Function |
|------|---------|-------------|
| AUX1 | 1 | RET1 |
| | 2 | AUX1 ↔ AUX2 |
| | 3 | RET2 |
| AUX2 | 4 | OIS |
| | 5 | PRESET |

eXceed Series System Configuration



Control Accessories Compatibility

XA20s × 8.5 BE **RM**

| | | Description | Model Name | Standard |
|-------|--------|------------------------------------------------------|-----------------------------------------|----------|
| Focus | Manual | Focus Grip | CFH-3 | ● |
| | | Flexible Cable | CFC-12-990 | ● |
| | | Focus Manual Module | FMM-6B | ● |
| | | | FMM-X1 (for XA16x8) | ● |
| | Servo | Focus Servo Module | FSM-30B | ● |
| | | Focus Position Demand Unit | FSD-11 | ● |
| | | Zoom Rate Demand Unit | SRD-92B | ● |
| Zoom | Servo | Zoom Rate Demand Unit | SRD-92B | ● |
| Other | | VTR Control Unit | VRS-2 | |
| | | Extension Cable For Focus Servo Demand Unit (FSD-11) | ECA-1000(1m) / -5000(5m) / -10000(10m)* | |
| | | Extension Cable For Zoom Rate Demand Unit (SRD-92B) | ECC-1000(1m) / -5000(5m) / -10000(10m)* | |
| | | For 12PIN Lens Cable | ECE-R22 | |
| | | | | |

* Longer Cables are also available.



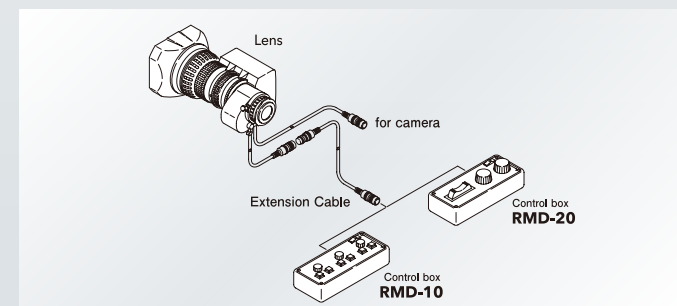
Mount Adapters

| Model Name | Camera | Lens | Note |
|------------|-------------------------|-------------------------|-----------------------------------------------------|
| ACM-8B | 1/2" Sony Bayonet Mount | 2/3" Bayonet Mount | Angle of view is approx. 1.3x shifted to tele side |
| ACACM-19 | 1/3" Bayonet Mount | 1/2" Sony Bayonet Mount | Angle of view is approx. 1.3x shifted to tele side |
| ACM-17 | 1/3" Bayonet Mount | 2/3" Bayonet Mount | Angle of view is approx. 1.6x shifted to tele side |
| ACM-21 | SONY PMW-300 | 2/3" Bayonet Mount | Angle of view is approx. 1.4x shifted to tele side |
| ACM-24 | SONY 1.25" Mount | 2/3" Bayonet Mount | Angle of view is approx. 1.7x shifted to tele side. |

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



HD REMOTE CONTROL LENSES



Control Accessories Compatibility

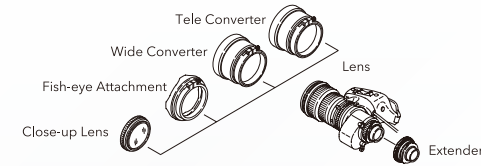
ZA17×7.6 BE **MD**

| Description | Model Name | MD |
|----------------------|---------------------------------------------------------------------------------|----|
| Remote Controller | RMD-10 | ● |
| | RMD-20 | ● |
| Extension Cable | ECM-005M(5m) / -010M(10m) / -020M(20m) / -030M(30m) / -050M(50m) / -100M(100m)* | |
| Extender Change Unit | ECU-12A | |

* Longer Cables are also available.

Optical Accessories for Portable Lenses

Optical accessories expand the capabilities of FUJINON TV lenses.



Tele Converter **TCV**

▶ Focal length is multiplied by the magnification of the converter on the telephoto side. ▶ Zooming possible. ▶ The F-No. on the master lens remains unchanged. ▶ M.O.D. is increased. ▶ Loss of picture edges will occur toward the wide angle side of the zoom range.



Wide Converter **WCV**

▶ Focal length is multiplied by the magnification of the converter on the wide side. ▶ Zooming possible. ▶ The F-No. on the master lens remains unchanged. ▶ M.O.D. is decreased.



Wide Attachment **WAT**

▶ Converts only the wide end of the lens by the magnification of the attachment. ▶ Zooming not possible. ▶ The F-No. on the master lens remains unchanged. ▶ Focus is adjustable only by the macro lever of master lens located near the lens mount.



Fish-eye Attachment **F-AT**

▶ Converts only the wide end of the lens by the magnification of the attachment. ▶ Zooming not possible. ▶ The F-No. on the master lens remains unchanged. ▶ Focus is adjustable only by the macro lever of master lens located near the lens mount.



Close-up Lens **CL**

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



2×Extender

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



* AE20B-2 is specifically designed for SDTV lens.

| LENS | XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7 | UA18×7.6 HA18×7.6 HTs18x4.2 ZA17×7.6 ZS17×5.5 | UA24×7.8 UA23×7.6 HA23×7.6 ZA22×7.6 |
|---------------------|--------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|
| Front Lens Diameter | ø 85 | | ø 100 |

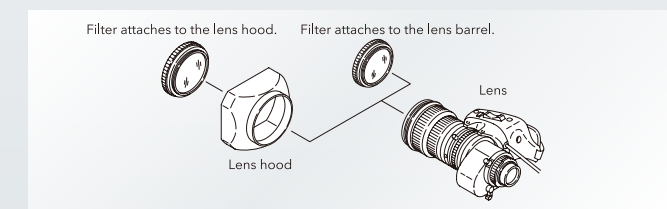
| Model Name | Magnification | Approx. Mass(kg) | | |
|------------|---------------|------------------|---|---|
| TCV-U85 | 1.5× | 1.10 | ● | |
| TCV-U100 | | 1.00 | | ● |
| WCV-U85 | 0.8× | 1.24 | ● | |
| WCV-U100 | | 1.20 | | ● |
| WAT-U85 | 0.7× | 0.36 | ● | |
| WAT-U100 | | 0.53 | | ● |
| F-ATU85 | 0.55× | 0.71 | ● | |
| F-ATU100 | | 0.67 | | ● |

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

| Model Name | Magnification | Approx. Mass(kg) | | |
|------------|---------------|------------------|--|--|
| HAeE14-1 | 1.4× | 0.30 | | |
| AE20B-2 | 2.0× | 0.17 | | |

Effects Filter

Attach to filter screw portion of the zoom lens.



Protection Filter **EPF**

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



Polarizing Filter **PL**

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



| LENS | UA18×7.6 HA18×7.6 HTs18x4.2 ZA17×7.6 ZS17×5.5 XA20s×8.5 XS20s×6.3 XT17s×4.5 XT20s×4.7 | UA24×7.8 UA23×7.6 HA23×7.6 ZA22×7.6 | HA25×11.5 HA25×16.5 | UA13×4.5 UA14×4.5 UA18×5.5 UA22x8 HA14×4.5 HA18×5.5 HA22×7.3 ZA12×4.5 XS13×3.3 HP12×7.6 | UA46×9.5 UA46x13.5 HA42×9.7 HA42×13.5 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Lens Barrel Filter Thread Size | M82×0.75 | M95×1 | M107×1 | — | M127×0.75 |
| Hood Filter Thread Size | — | M107×1 | M127×0.75 | M127×0.75 | — |

| Model Name | | | | |
|------------|---|---|---|---|
| EPF-82 | ● | | | |
| EPF-95 | | ● | | |
| EPF-107 | | ● | ● | |
| EPF-127 | | | ● | ● |
| EFL-82PL | ● | | | |
| EFL-95PL | | ● | | |
| EFL-107PLA | | ● | ● | |
| EFL-127PL | | | ● | ● |

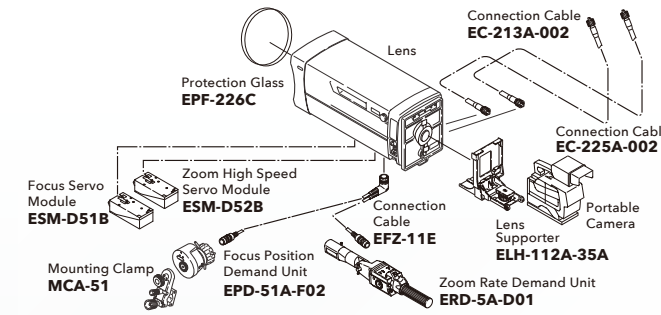
8K LENS

Fujifilm optical lens technology
Lenses that support state-of-the-art
8K broadcasting

8K images have approximately 33 million pixels—that's 16 times as many as full HD and four times as many as 4K UHD. Besides its awe-inspiring resolution, 8K offers a wider brightness range and an extended color spectrum, giving rich, detailed gradation and thus gorgeously expressive images. To bring the world ultra-high-definition 8K broadcasts requires the development of technologies for image input, transmission, and output, and a stable supply of 8K-compatible equipment. Fujifilm responds to today's high-quality-image needs by developing lenses that give full rein to the potential of state-of-the-art 8K broadcasting.

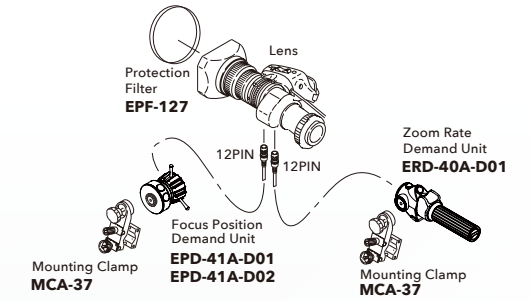


HP66x15.2-ESM System Configuration



| Description | Model Name |
|----------------------------|--------------|
| Zoom Rate Demand Unit | ERD-5A-D01 |
| Focus Position Demand Unit | EPD-51A-F02 |
| Mounting Clamp | MCA-51 |
| Servo Module | ESM-D51B |
| | ESM-D52B |
| Connection Cable | EFZ-11E |
| | EC-213A-002 |
| Lens Supporter | ELH-112A-35A |
| | EC-225A-002 |
| Protection Glass | EPF-226C |

HP12x7.6ERD-S9 System Configuration



| Description | Model Name |
|----------------------------|-------------|
| Zoom Rate Demand Unit | ERD-40A-D01 |
| Focus Position Demand Unit | EPD-41A-D02 |
| Mounting Clamp | MCA-37 |
| Protection Filter | EPF-127 |

Other

| Description | Model Name |
|------------------------------|---------------|
| Close up Lens for SK7.5x19.7 | HCL-SH951525C |

8K 1.25" Mount Series



NEW

| Model Name | HP12x7.6ERD-S9 | HP7.5x8.5-SM |
|-------------------------------------------------|----------------------------------------------|----------------------------------------------------|
| Focal Length | (1x)7.6-91mm (1.4x)10.64-127.4mm | (1x)8.5-64mm |
| Zoom Ratio | 12x | 7.5x |
| Extender | 1.4x | — |
| Maximum Relative Aperture(F-No.) | 1:3.1(7.6-69mm) 1:4.1(91mm) | 1:2.2(8.5-64mm) |
| Minimum Object Distance (M.O.D.)from Front Lens | 0.3m | 0.8m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 7.6mm 370x200mm 91mm 29x17mm | (1.4x) 10.64mm 262x143mm 127.4mm 21x12mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 7.6mm 93.3°x61.8° 91mm 10.1°x5.7° | (1.4x) 10.64mm 74.2°x46.3° 127.4mm 7.2°x4.1° |
| Filter Thread | M127x0.75 | — |
| Approx.Size | Φ95x267(ΦxLength) | 267.2x249x534(H x W x L) |
| Approx.Mass | 2.7kg(without lens hood) | 25kg |



NEW

| Model Name | HP11x22.5-SM | HP66x15.2-ESM |
|-------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| Focal Length | (1x)22.5-250mm | (1x)15.2-1000mm (1.4x)21.5-1414mm |
| Zoom Ratio | 11x | 66x |
| Extender | — | 1.4x |
| Maximum Relative Aperture(F-No.) | 1:2.2(22.5-250mm) | 1:2.9(15.2-592mm) 1:4.9(1000mm) |
| Minimum Object Distance (M.O.D.)from Front Lens | 3m | 3.7m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 22.5mm 2409x1355mm 250mm 207x116mm | (1x) 15.2mm 3495x1966mm 1000mm 55x31mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 22.5mm 39.4°x22.9° 250mm 3.7°x2.1° | (1.4x) 15.2mm 55.8°x33.3° 1000mm 0.9°x0.5° |
| Filter Thread | — | — |
| Approx.Size | 265x272x617.4(H x W x L) | 258x264x610(H x W x L) |
| Approx.Mass | 26kg | 24.7kg |

8K PL Mount Series



| Model Name | SK3x12-SM | SK7.5x19.7-SM | SK20x35-ESM |
|-------------------------------------------------|----------------------------------------------|-----------------------------------------------|---------------------------------------------|
| Focal Length | (1x)12-36mm | (1x)19.7-148mm | (1x)35-700mm (1.4x)49-980mm |
| Zoom Ratio | 3x | 7.5x | 20x |
| Extender | — | — | 1.4x |
| Maximum Relative Aperture(F-No.) | 1:2.8(12-36mm) | 1:2.8(19.7-148mm) | 1:2.8(35-315mm) 1:4.8(700mm) |
| Minimum Object Distance (M.O.D.)from Front Lens | 0.4m | 1.2m | 3.5m |
| Object Dimensions at M.O.D. 16:9 Aspect Ratio | (1x) 12mm 945x532mm 36mm 304x171mm | (1x) 19.7mm 1663x936mm 148mm 216x122mm | (1x) 35mm 2631x1480mm 700mm 132x74mm |
| Angular Field of View 16:9 Aspect Ratio | (1x) 12mm 91.4°x59.8° 36mm 37.7°x21.7° | (1x) 19.7mm 64.0°x38.6° 148mm 9.5°x5.3° | (1x) 35mm 38.7°x22.3° 700mm 2.0°x1.1° |
| Filter Thread | M152x1 | M149x1 | — |
| Approx.Size | Φ160x379.2(ΦxLength) | Φ160x417.5(ΦxLength) | 258x264x714(H x W x L) |
| Approx.Mass | 7.4kg(without lens hood) | 9.7kg(without lens hood) | 31.2kg |

| Horizontal Field of View (16:9) | 93.3 | 91.4 | 86.9 | 64.0 | 55.8 | 39.4 | 38.7 | 37.7 | 14.3 | 10.1 | 9.5 | 3.7 | 2.0 | 0.9 |
|---------------------------------|--------------------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.25" Format*1 | 7.6 | | 8.5 | | 15.2 | 22.5 | | | 64 | 91 | | 250 | | 1000 |
| Focal Length | 535mm Format*2 | | 12 | 19.7 | | 35 | 36 | | 148 | 700 | | | | |
| 2/3" Format Equivalent | 4.5 | 4.7 | 5.1 | 7.7 | 9.0 | 13.4 | 13.7 | 14.0 | 38.1 | 54.1 | 57.7 | 148.6 | 273.0 | 594.6 |
| HP12x7.6ERD-S9 | [Bar chart showing field of view coverage] | | | | | | | | | | | | | |
| HP7.5x8.5-SM | [Bar chart showing field of view coverage] | | | | | | | | | | | | | |
| HP11x22.5-SM | [Bar chart showing field of view coverage] | | | | | | | | | | | | | |
| HP66x15.2-ESM | [Bar chart showing field of view coverage] | | | | | | | | | | | | | |
| SK3x12-SM | [Bar chart showing field of view coverage] | | | | | | | | | | | | | |
| SK7.5x19.7-SM | [Bar chart showing field of view coverage] | | | | | | | | | | | | | |
| SK20x35-ESM | [Bar chart showing field of view coverage] | | | | | | | | | | | | | |

*1 Sensor size:16.1x9.1 *2 Sensor size:24.6x13.8

FUJINON Cine Lenses

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

Premista Series

Premista Series support large-format sensors and deliver outstanding high resolution, beautiful bokeh and rich gradation with HDR (high dynamic range). The Premista Series can bring out the maximum capability of large format sensors, which are increasingly being adopted into cinema camera, to provide robust support for high-quality video production.



HK Premier Series

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



ZK Cabrio Series

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

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



XK Cabrio Series

The XK Cabrio Series also equip operational features of ZK Cabrio Series. The lens offers 4K compatible optical performance and covers a wide range of focal length from 20mm to 120mm.

It also realizes T3.5 brightness in the entire zoom range. Various scenes can be shot with this single lens.



MK Series

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



Premista Series



Living Large Capture Your Cinematic Vision

Overwhelming Quality and a Wide Range of Focal Lengths

Superb Optical Performance Delivering the Full Benefits of a Large Format Sensor

Adopting large diameter aspherical elements, Premista achieves stunning optical quality and low distortion from the center to the corner, capturing both the feeling and texture of the subjects. Furthermore, by combining newly developed focus and zoom systems, they deliver clean and sharp imagery with minimum color aberrations regardless of zoom position or distance from the subject, which rivals the performance of a prime lens.

Performs Well with High Dynamic Range for Expanding the Visual Expression

Unwanted flare and ghosts are well suppressed thanks to in-house optical calculation software. Premista performs well with the high dynamic range of a large format sensor. The color is natural and neutral due to the choice of glass elements and coatings. It's matched with Fujifilm's current cine lens lineup to simplify color grading that is required when using a combination of multiple lenses.

Covering the Frequently-used Range of Focal Lengths from 28-250mm with 2 Lenses

The lineup includes a standard zoom lens (28-100mm) and a telephoto zoom lens (80-250mm). Combining these two lenses, they cover the most frequently used focal lengths of 28-250mm. Premista also features a constant T2.9 aperture (through 200mm on the telephoto zoom). Unlike when using a prime lens, they save both time and cost caused by changing lenses frequently.



Tobias A. Schliessler, ASC

"I've been a fan of the FUJINON Zoom lenses since my first experience on Lone Survivor, where I used the 19-90mm Cabrio and the Premier zooms for the first time, I have since used them on all on my spherical feature films and commercials. I am happy to have the Premista for my large format work. The lens has the same contrast, sharpness, color characteristics, quality, and lack of lens breathing as the Premier zooms."

Premista Series

| Horizontal Field of View (16:9) | | 65.5 | 25.4 | 20.4 | 8.2 |
|---------------------------------|------------------------|------|------|------|------|
| Focal Length | Large format*1 | 28 | 80 | 100 | 250 |
| | S35mm Format*2 | 19 | 54 | 68 | 170 |
| | 2/3" Format Equivalent | 6.7 | 19 | 23.8 | 59.4 |
| Premista28-100mm T2.9 | | | | | |
| Premista80-250mm T3.5-3.9 | | | | | |

*1 Sensor size:36x24 *2 Sensor size:27.45x15.44



Excellent Usability for Professional Use

Combining Lightweight and High Durability

The Premista design combines both a lightweight of 3.8kg and compact size as well as the durability FUJINON lenses are known for even in the harsh conditions of professional use. These zoom lenses are especially convenient when used on a crane or a helicopter where it is difficult to access the lens.

Accurate and Comfortable Operation to Assist Film Crews

The focus ring features a rotation of a full 280 degrees to facilitate precise focusing even with a shallow depth-of-field. In addition, a Flange Focal Distance adjustment function with a hex set screw is standard in order to easily achieve optimum camera and lens matching, thereby bringing out the lenses' full optical performance even if there are sudden changes of temperature.

Efficient Work Flow Compatible with ZEISS eXtended Data*1

The Premista series is compatible with the "ZEISS eXtended Data" system developed by ZEISS based on the open \mathcal{I} Technology*2 standard. It enables the recording of lens metadata (focus, zoom, and iris position) and lens distortion and shading corrections.*3

*1: Available via firmware update.

*2: \mathcal{I} is a registered trademark of Cooke Optics Limited used with permission.

*3: Compatible devices are required depending on the cameras to be used.



| Model Name | Premista 28-100mmT2.9 | Premista 80-250mmT2.9-3.5 |
|----------------------------------|----------------------------------------------|-------------------------------------------|
| Focal Length | 28-100mm | 80-250mm |
| Aperture | T2.9 | T2.9(80-200mm) / T3.5(250mm) |
| Lens Mount | PL mount | PL mount |
| Compatible Image Size (diagonal) | 46.3mm | 46.3mm |
| Close Focus | 0.8m / 2ft 7in | 1.5m / 4ft 11in |
| Angular Field of View (HxV) | 28mm: 72.4° x 42.2° 40.96mm x 21.60mm*4 | 80mm: 28.7° x 15.4° 250mm: 9.4° x 4.9° |
| Angular Field of View (HxV) | 128mm: 65.5° x 46.4° 100mm: 23.1° x 12.3° | 80mm: 25.4° x 17.1° 250mm: 8.2° x 5.5° |
| Angular Field of View (HxV) | 28mm: 52.2° x 30.8° 100mm: 15.6° x 8.8° | 80mm: 19.5° x 11.0° 250mm: 6.3° x 3.5° |
| Focus Rotation | 280° | 280° |
| Zoom Rotation | 120° | 120° |
| Iris Rotation | 48° | 48° |
| Iris Blades | 13 | 13 |
| Front Diameter | 114mm | 114mm |
| Length (approx.) | 255mm / 10in | 255mm / 10in |
| Weight (approx.) | 3.8kg / 8.4lbs. | 3.8kg / 8.4lbs. |

*4: Aspect ratio 1:1.90 *5: Aspect ratio 1:1.50 *6: Aspect ratio 1:1.78

HK ZK XK MK Series

Exceptional Lens Design Delivers Outstanding Optical Performance

FUJINON Cine Lenses deliver outstanding optical performance thanks to the combination of fluorite elements, extra-low-dispersion (ED) glass and large-aperture aspheric lenses to suppress aberrations. Image resolution from edge to edge has been dramatically improved while minimizing distortion and fluctuations in angle of view during focusing. In addition, variations in optical performance are reduced when zooming, providing superb images over the entire zoom range from wide to telephoto. Plus, our unique HT-EBC coating achieves high transmittance and low reflectance, enabling an image expression with rich color reproduction.

9-Blade Iris for Natural Bokeh*1

HK ZK XK MK

In developing the 9-blade diaphragm for these FUJINON Cine Lenses, extensive simulations were performed to optimize the number and shape of the blades to render out-of-focus areas more naturally. Light generated when shooting point light sources are more circular, making it possible to render a more pleasing, natural bokeh.

*1 The Premista series uses a 13-blade diaphragm to provide a even more natural bokeh based on the latest technology.



Detachable Digital Servo Grip*2

ZK XK

ZK and XK Series lenses feature an advanced "Detachable" drive unit, a first in the Light Weight Zoom category. These lenses feature hybrid technologies from both our broadcast and cine lenses.

With the drive unit attached, these lenses can be operated like traditional ENG TV lenses thanks to the same interface and accessories. This is exceptionally helpful in simplifying and reducing set up time. Therefore, it is not necessary to use more complicated cine lens drive systems.

*2 Mounted as standard in ZK14-35mm T2.9, ZK19-90mm T2.9, ZK85-300mm T2.9-4.0 and XK20-120mm T3.5; optional on the ZK25-300mm T3.5-3.85.



Cinema style

Broadcast style

Mechanical design for good manual operability

HK ZK XK MK

FUJINON Cine lenses are designed by emphasizing good manual operability.

Operation is smooth with free of torque changes and jerkiness.

Smooth focusing with no torque variation or friction helps accurate focus adjustment.

The gear rings for focus, zoom and iris adjustment have a pitch of 0.8M, the same as existing FUJINON cine lenses, for compatibility with standard cine accessories.

An original universal font for markings offers excellent visibility in any shooting situation.



HK Premier Series

| Horizontal Field of View (16:9) | 79 | 67 | 53 | 30 | 18 | 16 | 7.6 | 3.4 | |
|---------------------------------|------------------------|------|-----|-----|----|----|-----|-----|-----|
| Focal Length | S35mm Format* | 14.5 | 18 | 24 | 45 | 75 | 85 | 180 | 400 |
| | 2/3" Format Equivalent | 5.8 | 7.2 | 9.6 | 18 | 30 | 34 | 72 | 160 |
| HK14.5-45mm T2.0 | | | | | | | | | |
| HK18-85mm T2.0 | | | | | | | | | |
| HK24-180mm T2.6 | | | | | | | | | |
| HK75-400mm T2.8-3.8 | | | | | | | | | |

*Sensor size : 24.0 x 13.5

ZK Cabrio Series

| Horizontal Field of View (16:9) | 89 | 72 | 58 | 43 | 18 | 17 | 5 | |
|---------------------------------|------------------------|-----|-----|-----|----|----|----|-----|
| Focal Length | S35mm Format* | 14 | 19 | 25 | 35 | 85 | 90 | 300 |
| | 2/3" Format Equivalent | 4.9 | 6.6 | 8.7 | 12 | 30 | 31 | 104 |
| ZK14-35mm T2.9 | | | | | | | | |
| ZK19-90mm T2.9 | | | | | | | | |
| ZK85-300mm T2.9-4.0 | | | | | | | | |
| ZK25-300mm T3.5-3.85 | | | | | | | | |

*Sensor size : 27.45 x 15.44

XK Cabrio Series

Now available without drive unit

| Horizontal Field of View (16:9) | 64 | 12 | |
|---------------------------------|------------------------|-----|------|
| Focal Length | S35mm Format* | 20 | 120 |
| | 2/3" Format Equivalent | 7.7 | 46.3 |
| XK20-120mm T3.5 | | | |

*Sensor size : 24.84 x 13.97

MK Series

| Horizontal Field of View (16:9) | 69.2 | 27.9 | 25.4 | 10.5 | |
|---------------------------------|------------------------|------|------|------|------|
| Focal Length | S35mm Format* | 18 | 50 | 55 | 135 |
| | 2/3" Format Equivalent | 6.9 | 19.3 | 21.2 | 52.1 |
| MK18-55mm T2.9 | | | | | |
| MK50-135mm T2.9 | | | | | |

*Sensor size : 24.84 x 13.97

Power supply

ZK XK

The power for the servo drive unit is available via a hot-shoe mount or external power supply.*1

For the external power supply, you can connect to the camera (12 pin) or power-supply box (XLR 4 pin / D-tap) by optional cables.

Equipped 16 bit encoder

ZK XK

16bit encoder provides accurate information of zoom, focus and iris settings, which matches highprecision virtual systems.

Lens-data communication system

ZK XK

FUJINON Cine lenses support ARRI LDS system and Cooke /i Technology, which are widely employed in cinema cameras. It allows users to transmit the data of the lens position to the camera and thus to enhance the efficiency of operation.*2

*1: Power supply for the lens varies according to the type of camera.

*2: Lens-data communication system is available with the drive unit attached. Cameras need to be compatible with the communication system.

Compatible with the existing operation accessories

ZK XK

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



ZK / XK series switch for activating functions of the driving unit



Upper side switch

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

Lower side switch

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

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

FUJINON Cine Lenses

HK Premier Series



| Model Name | HK14.5-45mm T2.0 | HK18-85mm T2.0 |
|-----------------------------------------------------|--------------------------------------------|-----------------------------------------|
| Application | 35mm PL Mount Camera | 35mm PL Mount Camera |
| Focal Length | 14.5–45mm | 18–85mm |
| Zoom Ratio | 3.1 x | 4.7 x |
| T-No. | T2.0 | T2.0 |
| Compatible Image Size(diagonal) | Maximum 27.5mm | Maximum 27.5mm |
| Iris Blades | 9 | 9 |
| M.O.D.from Image Planes | 0.71m / 2ft 4in | 0.82m / 2ft 8in |
| Object Dimensions at M.O.D. 1.78:1 Aspect Ratio* | 14.5mm 693 x 390mm 45mm 215 x 121mm | 18mm 656 x 369mm 85mm 139 x 78mm |
| Angular Field of View 1.78:1 Aspect Ratio* | 14.5mm 79.2° x 49.9° 45mm 29.9° x 17.1° | 18mm 67.4° x 41.1° 85mm 16.1° x 9.1° |
| Focus Rotation | 280° | 280° |
| Zoom Rotation | 160° | 160° |
| Approx. Size | Φ136 x 310mm(ΦxLength) | Φ136 x 352mm(ΦxLength) |
| Approx. Mass | 6.5kg | 7.0kg |



| Model Name | HK24-180mm T2.6 | HK75-400mm T2.8-3.8 |
|-----------------------------------------------------|-----------------------------------------|-----------------------------------------|
| Application | 35mm PL Mount Camera | 35mm PL Mount Camera |
| Focal Length | 24–180mm | 75–400mm |
| Zoom Ratio | 7.5 x | 5.3 x |
| T-No. | T2.6 | T2.8(75-290mm) T3.8(400mm) |
| Compatible Image Size(diagonal) | Maximum 27.5mm | Maximum 27.5mm |
| Iris Blades | 9 | 9 |
| M.O.D.from Image Planes | 1.24m / 4ft 1in | 2m / 6ft 7in |
| Object Dimensions at M.O.D. 1.78:1 Aspect Ratio* | 24mm 924 x 520mm 180mm 119 x 67mm | 75mm 580 x 326mm 400mm 113 x 64mm |
| Angular Field of View 1.78:1 Aspect Ratio* | 24mm 53.1° x 31.4° 180mm 7.6° x 4.3° | 75mm 18.2° x 10.3° 400mm 3.4° x 1.9° |
| Focus Rotation | 280° | 280° |
| Zoom Rotation | 160° | 160° |
| Approx. Size | Φ136 x 405mm(ΦxLength) | Φ136 x 444mm(ΦxLength) |
| Approx. Mass | 8.9kg | 9.1kg |

ZK Cabrio Series



| Model Name | ZK14-35mm T2.9 | ZK85-300mm T2.9-4.0 |
|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Application | 35mm PL Mount Camera | 35mm PL Mount Camera |
| Focal Length | 14–35mm | 85–300mm |
| Zoom Ratio | 2.5 x | 3.5 x |
| T-No. | T2.9 | T2.9(85–218mm) T4.0(300mm) |
| Compatible Image Size(diagonal) | Maximum 31.5mm | Maximum 31.5mm |
| Iris Blades | 9 | 9 |
| M.O.D.from Image Planes | 0.6m / 2ft | 1.2m / 3ft 11in |
| Object Dimensions at M.O.D. 1.78:1 Aspect Ratio** | 14mm 701 x 394mm 35mm 275 x 155mm | 85mm 274 x 154mm 300mm 79 x 44mm |
| Angular Field of View 1.78:1 Aspect Ratio** | 14mm 88.9° x 57.7° 35mm 42.8° x 24.9° | 85mm 18.3° x 10.4° 300mm 5.2° x 2.9° |
| Focus Rotation | 200° | 200° |
| Zoom Rotation | 120° | 120° |
| Approx. Size | Φ114 x 231mm(ΦxLength) | Φ114 x 249mm(ΦxLength) |
| Approx. Mass | 2.9kg (with Drive Unit) / 2.4kg (without Drive Unit) | 3.1kg (with Drive Unit) / 2.6kg (without Drive Unit) |



| Model Name | ZK19-90mm T2.9 | ZK25-300mm T3.5-3.85 |
|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|
| Application | 35mm PL Mount Camera | 35mm PL Mount Camera |
| Focal Length | 19–90mm | 25-300mm |
| Zoom Ratio | 4.7 x | 12 x |
| T-No. | T2.9 | T3.5(25-273mm) T3.85(300mm) |
| Compatible Image Size(diagonal) | Maximum 31.5mm | Maximum 31.5mm |
| Iris Blades | 9 | 9 |
| M.O.D.from Image Planes | 0.85m / 2ft 9in | 1.2m / 3ft 11in |
| Object Dimensions at M.O.D. 1.78:1 Aspect Ratio** | 19mm 917 x 516mm 90mm 193 x 109mm | 25mm 937 x 527mm 300mm 77 x 43mm |
| Angular Field of View 1.78:1 Aspect Ratio** | 19mm 71.7° x 44.2° 90mm 17.3° x 9.8° | 25mm 57.5° x 34.3° 300mm 5.2° x 2.9° |
| Focus Rotation | 200° | 280° |
| Zoom Rotation | 120° | 120° |
| Approx. Size | Φ114 x 226mm(ΦxLength) | Φ136 x 401mm(ΦxLength) |
| Approx. Mass | 2.8kg (with Drive Unit) / 2.3kg (without Drive Unit) | 8.4Kg (without optional Drive Unit) |

XK Cabrio Series



*Now Available without drive unit

| Model Name | XK20-120mm T3.5 |
|------------------------------------------------------|------------------------------------------------------|
| Application | 35mm PL Mount Camera |
| Focal Length | 20–120mm |
| Zoom Ratio | 6 x |
| T-No. | T3.5 |
| Compatible Image Size(diagonal) | Maximum 28.5mm |
| Iris Blades | 9 |
| M.O.D.from Image Planes | 1.1m / 3ft 7in |
| Object Dimensions at M.O.D. 1.78:1 Aspect Ratio** | 20mm 1109 x 624mm 120mm 182 x 102mm |
| Angular Field of View 1.78:1 Aspect Ratio** | 20mm 63.7° x 38.5° 120mm 11.8° x 6.7° |
| Focus Rotation | 200° |
| Zoom Rotation | 90° |
| Approx. Size | Φ114 x 239mm(ΦxLength) |
| Approx. Mass | 2.9kg (with Drive Unit) / 2.4kg (without Drive Unit) |

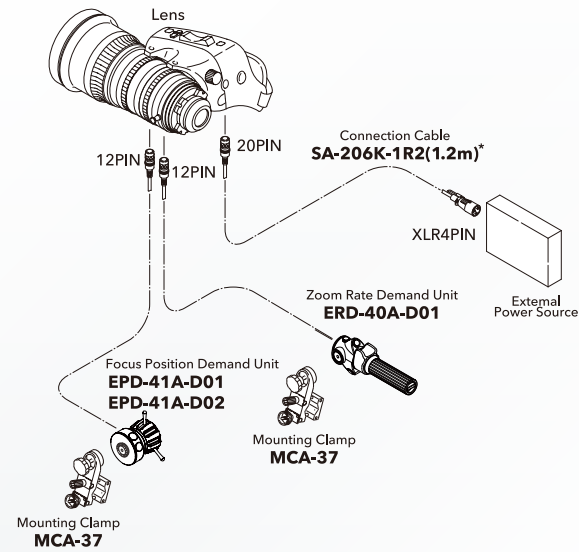
MK Series



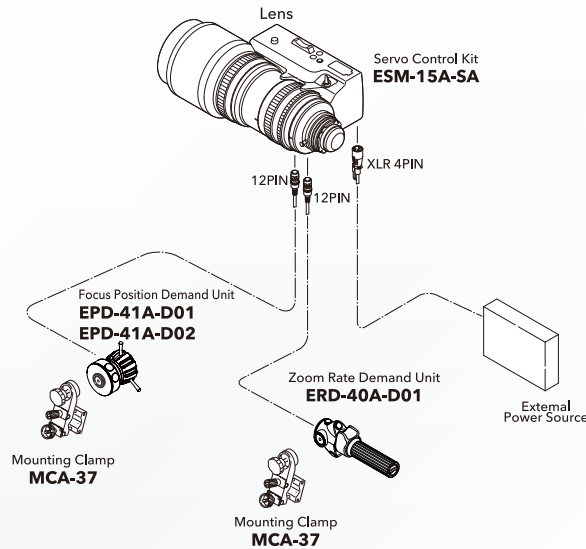
| Model Name | MK18-55mm T2.9 | MK50-135mm T2.9 |
|------------------------------------------------------|------------------------------------------|-------------------------------------------|
| Application | Super 35mm/APS-C E-mount Camera | Super 35mm/APS-C E-mount Camera |
| Focal Length | 18-55mm | 50-135mm |
| Zoom Ratio | 3.0 x | 2.7 x |
| T-No. | T2.9 | T2.9 |
| Compatible Image Size(diagonal) | Maximum 28.5mm | Maximum 28.5mm |
| Iris Blades | 9 | 9 |
| M.O.D.from Image Planes | 0.85m/2ft 9in | 1.2m/3ft 11in |
| Object Dimensions at M.O.D. 1.78:1 Aspect Ratio** | 18mm 924mm x 520mm 55mm 291mm x 164mm | 50mm 534mm x 300mm 135mm 196mm x 110mm |
| Angular Field of View 1.78:1 Aspect Ratio** | 18mm 69.2° x 42.4° 55mm 25.5° x 14.5° | 50mm 27.9° x 15.9° 135mm 10.5° x 5.9° |
| Focus Rotation | 200° | 200° |
| Zoom Rotation | 90° | 90° |
| Approx. Size | Φ85mm x 206mm(ΦxLength) | Φ85mm x 206mm(ΦxLength) |
| Approx. Mass | 980g | 980g |

Servo Control Kit

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



ZK25-300mm T3.5-3.85



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

Control Accessories List

| | Description | Model Name |
|--------------|---------------------------------------------------------|-------------------|
| Focus Demand | Digital Focus Position Demand | EPD-41A-D01 / D02 |
| | Mounting Clamp | MCA-37 |
| | Standard Focus Position Demand | EPD-21A-A01/A02 |
| | Mounting Clamp | MCA-7 |
| Zoom Demand | Digital Zoom Demand (Featured Iris Remote Control) | ERD-40A-D01 |
| | Mounting Clamp | MCA-37 |
| | Zoom Rate Demand Unit | ERD-20A-A02 |
| | Mounting Clamp | MCA-7 |
| Other | Lens Hood for ZK4.7x19, ZK3.5x85 | HS-304A-114 |
| | Lens Hood for ZK2.5x14 | HS-304B-114 |
| | Digital Servo Module (Designed for ZK12x25) | ESM-15A-SA |
| | Power Source Cable (Lens:20pin - XLR4pin), L=120cm | SA-206K-1R2 |
| | Power Source Cable (Lens:20pin - Camera:12pin), L=120cm | SA-206M-1R2 |
| | Power Source Cable (Lens:20pin - Camera:12pin), L=40cm | SA-206M-R40 |

FUJINON Lens Maintenance

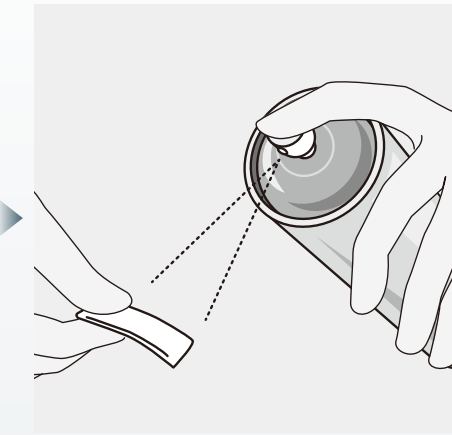
Maintaining high performance levels far into the future

Lens Cleaning

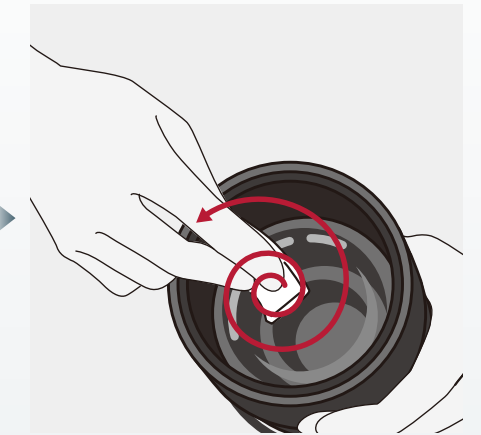
Use commonly available lens cleaner and lens cleaning paper.



First, remove the lens cover and brush the dust from the lens surface with a soft brush or blower brush.



Fold the lens paper into an appropriate size and moisten a part of it with lens cleaner.



Gently wipe the lens with the moistened lens paper in a circular motion, from the center to the edges. Take a dry piece of lens paper and wipe until all smears disappear.

Moisture Removal

If water seeps through to the inner part of the lens, quickly wipe all remaining water on the outer part of the lens with a dry cloth. Next, place the lens into a sealable vinyl bag with a drying agent, seal the bag and allow to completely dehumidify.

Storage

If the lens will not be used for some time, please store it away from high temperatures, high humidity and corrosive gases. High temperatures and high humidity are particular causes of mold. Mold is able to thrive in temperatures of between 20-28°C and between 60-80% humidity levels.

Caution

The lens consists of an optical unit and a power unit. Both units are held in place with screws. Please DO NOT unscrew the units. If the units are separated, the mechanism of the power unit will require realignment.

If you encounter any problems during use,
please contact your sales representative or our Service Center.

We recommend that lenses be inspected on a regular basis at least once a year to maintain high performance over the long term.

