

# FUJINON CINE LENSES

HK Premier Series / ZK Light Weight Series



# FUJINON CINE LENSES

Creating unparalleled optical performance is a mission for Fujifilm. Fujifilm has continued to challenge the ultimate in performance and our 35mm PL Mount Zoom lenses have achieved this goal.

The “Look” and the “Quality” of the images that cinematographer’s desire is the fruit of our latest technologies thus achieving an elegant image taken to the extreme.

## Technologies which Sustain High Accuracy and High Image Quality

FUJINON Cine Lenses are manufactured by an integrated production system in Fujifilm’s factory in the Mito district of Japan. To reach the highest lens quality possible, all processes are performed in-house including assembly, lens coating and rigorous evaluation procedures. Large diameter lens elements, produced by Fujifilm’s unique technologies lead to superb image quality.



# HK Premier Zoom Series

Digital cinema cameras with high-resolution imaging devices that rival the quality of film are now common in production for theatrical release. It has long been desired to improve upon the optical characteristics and performance of lenses to meet the quality of these cameras. Fujifilm engineers exhaustively developed our 4K+ FUJINON HK Premier Series lenses utilizing the expertise gained from the lens design process honed over many years.



## Main Features

- 4K+ Ultimate Optical Performance
- Focal Lengths from 14.5mm to 400mm are covered by 4 zoom lenses
- Natural Bokeh (Blur) thanks to 9-Blade Round Iris
- Color Matching
- Compatible with both Digital and Film Cameras\*
- 280 Degree Focus Rotation
- 136mm Front Lens Diameters
- 0.8mm Cine Gearing
- Uniformed Sizes and Shapes of Design
- Available with Feet or Meter Scales

\*The lens is optimized by the use of an optical adaptor



## 4K+ Ultimate High Optical Performance

Fujifilm has developed special high refractive index and low dispersion glass in order to improve the optical balance. The zoom mechanism suppresses aberration change from the WIDE side to TELE end by adopting our exclusive floating method. HK Premier Series lenses employ a special new EBC multi-layer coating technology which reduces flares and ghosts to improve image quality. In addition, the contrast performance is rich with a superb 4K+ resolution. The net result is a lens series with excellent overall balance. The HK Premier Series lenses, with high resolution throughout the zoom range, make a compelling argument for utilizing one zoom lens in place of multiple primes.



## High Performance at Wide Apertures

Compared to HD broadcast video lenses, HK Premier Series lenses have a larger diameter front element. This provides a very fast T-Stop. Combined with the large image Sensor, HK Premier Series lenses bring extraordinary depth and realism of a picture to the screen.

## Color Matching

In cinematography, each scene requires different types of lenses depending on focal length. This means the same color balance in all lenses is crucial. HK Premier Series lenses are designed to exhibit the same transmission characteristics optimized for each optical element by using various glass materials in ideal balance and by adopting our New EBC multi layer coating. These transmission characteristics reduce time to adjust color in post; therefore overall savings are possible.

## Constant T-No.

Cine lenses are required a stable T-No in any zoom range. Therefore HK Premier Series lenses were designed to maintain a constant T-No, from the wide end to the telephoto end.

\*Exception: HK5.3x75 (T2.8-3.8)



# ZK Light Weight Zoom Series

For many digital cinema camera applications, there is a need for, a “compact and lightweight” zoom design with high optical quality. Fujifilm has newly developed the FUJINON ZK Light Weight Zoom Series featuring an exclusive and unique “Detachable” Servo Drive Unit. The new highly advanced removable drive unit is based on ergonomic engineering concepts as well as ease to use and imaginative design. These lightweight zoom lenses combine quality, flexibility and mobility for all requirements.



## Main Features

- Detachable Servo Drive Unit
- 16 bit High Resolution Encoders are employed
- LDS\* and /i Technology\* lens data capable through electric contacts in the mount
- Outstanding Performance Designed for 4K Cameras
- Back Focus Adjustment with Macro Function
- Natural Bokeh (Blur) thanks to 9-Blade Round Iris
- 0.8mm Cine Gearing
- 200 Degree Focus Rotation
- Luminous Barrel Markings
- Available with Feet or Meter Scales

\*LDS (Lens Data System): Lens communication feature provided from ARRI  
\*i Technology: Lens communication feature provided from Cooke

## Outstanding Performance Designed for 4K Cameras

Applying FUJINON optical technologies developed for the HK Premier Series, ZK Light Weight Series lenses have achieved both a compact size and light weight design. With newly developed HT-EBC multi layer coating technology, the lenses boast a high transmittance and are resistant to flares and ghosts. The lenses employ a “3 Moving Zoom Group” technology, which is used in HK Premier Series lenses, to compensate for aberrations at all focal lengths. ZK Light Weight Series lenses exhibit high resolution in the center as well as the corners on a large screen. FUJINON ZK Light Weight Series lenses with high optical performance designed for today's 4K cameras are the answer to the diverse needs of high resolution cinematography production.

## ENG Shooting Style with Detachable Servo Grip

ZK Light Weight Series lenses feature advanced “Detachable” drive unit, first in the Light Weight Zoom category. These lenses feature hybrid technology of our broadcast and cine lens technologies in a light weight and compact body. With the drive unit, 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. In addition, the drive also seamlessly interfaces with wired and wireless cine control systems. On the other hand, with the drive unit removed, these lenses have standard 0.8 cine gearing, allowing for the use of traditional third party cine accessories. Whichever way they are used, the operator will feel comfortable with the lenses.

\*In order to use the servo system with a ZK Light Weight Series lens, it is necessary to provide power from the camera to the lens through the camera mount (more than 10V, 1A). If the camera doesn't have capability of supply power to the lens, please arrange an external power source (10 to 30VDC) and optional connection cable.



# FUJINON CINE LENSES



## HK Premier Zoom Series

Model Name	HK3.1x14.5	HK4.7x18	HK7.5x24	HK5.3x75
Application	35mm PL Mount Camera	35mm PL Mount Camera	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	14.5–45mm	18–85mm	24–180mm	75–400mm
Zoom Ratio	3.1 ×	4.7 ×	7.5 ×	5.3 ×
T-No.	T2.0	T2.0	T2.6	T2.8(75-290mm) T3.8(400mm)
Iris Blades	9	9	9	9
M.O.D.from Image Planes	0.71m / 2'4"	0.82m / 2'9"	1.24m / 4'1"	2m / 6'9"
Object Dimensions at M.O.D. 1.78 : 1 Aspect Ratio*	14.5mm 693 × 390mm 45mm 215 × 121mm	18mm 656 × 369mm 85mm 139 × 78mm	24mm 924 × 520mm 180mm 119 × 67mm	75mm 580 × 326mm 400mm 113 × 64mm
Angular Field of View 1.78 : 1 Aspect Ratio*	14.5mm 79°13' × 49°56' 45mm 29°52' × 17°04'	18mm 67°23' × 41°07' 85mm 16°04' × 9°05'	24mm 53°08' × 31°25' 45mm 07°38' × 4°18'	75mm 18°11' × 10°17' 400mm 3°26' × 1°56'
Focus Rotation	280°	280°	280°	280°
Zoom Rotation	160°	160°	160°	160°
Approx. Size (Φ×Length)	Φ136 × 310mm	Φ136 × 352mm	Φ136 × 405mm	Φ136 × 444mm
Approx. Mass	6.5kg	6.9kg	8.9kg	9.0kg

\*Sensor Size : 24.0x13.5



## ZK Light Weight Zoom Series

Model Name	ZK2.5x14	ZK4.7x19	ZK3.5x85	ZK12x25
Application	35mm PL Mount Camera	35mm PL Mount Camera	35mm PL Mount Camera	35mm PL Mount Camera
Focal Length	14-35mm	19-90mm	85-300mm	25-300mm
Zoom Ratio	2.5 ×	4.7 ×	3.5 ×	12 ×
T-No.	T2.9	T2.9	T2.9(85-218mm) T4.0(300mm)	T3.5(25-273mm) T3.85(300mm)
Iris Blades	9	9	9	9
M.O.D.from Image Planes	0.6m / 2'	0.85m / 2'10"	1.2m / 4'	1.2m / 4'
Object Dimensions at M.O.D. 1.78 : 1 Aspect Ratio*	14mm 701 × 394mm 35mm 275 × 155mm	19mm 917 × 516mm 90mm 193 × 109mm	85mm 274 × 154mm 300mm 79 × 44mm	25mm 937 × 527mm 300mm 77 × 43mm
Angular Field of View 1.78 : 1 Aspect Ratio*	14mm 88° 52' × 57° 45' 35mm 42° 49' × 24° 53'	19mm 71° 41' × 44° 14' 90mm 17° 20' × 9° 48'	85mm 18° 21' × 10° 23' 300mm 5° 14' × 2° 57'	25mm 57° 32' × 34° 19' 300mm 5° 14' × 2° 57'
Focus Rotation	200°	200°	200°	280°
Zoom Rotation	120°	120°	120°	120°
Approx. Size (Φ×Length)	Φ114 × 231 mm	Φ114 × 226mm	Φ114 × 249mm	Φ136 × 401mm
Approx. Mass	2.9kg(with Drive Unit) / 2.4kg(without Drive Unit)	2.8kg(with Drive Unit) / 2.3kg(without Drive Unit)	3.1kg(with Drive Unit) / 2.6kg(without Drive Unit)	8.4kg(without Drive Unit)

\*Sensor Size : 27.45x15.44

**NEW**

## High Zoom Ratio

ZK12x25 servo drive unit is optionally available

**FUJIFILM**

FUJIFILM Corporation

1-324 Uetake, Kita-ku, Saitama City, Saitama, 331-9624, Japan  
http://www.fujifilm.com/

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 FFBX2014.03 GFEE-G02-01