

# Canon

## HIGH SPEED ASPHERIC LENSES FOR 35 MM CINEMATOGRAPHY

Ultra-fast lenses with aspherical elements that reduce flare, sharply improve definition and contrast, and make night-for-night 35mm cinematography by available low light particularly successful.

### TECHNICAL SPECIFICATIONS

#### CANON K-35 24mm (T1.6) LENS

Focal Length:	24mm
Maximum relative aperture (T-stop):	1:1.6
Lens construction:	8 Components 10 Elements
Wavelength range for color correction:	400-700m $\mu$
Image format covered:	22.05x16.03 dia. 27.26mm
Angular field of view:	48.4x36.2 dia. 58.2°
Minimum object distance:	0.3m
Clear aperture of front glass:	50.8mm $\emptyset$
Clear aperture of rear glass:	35.2mm $\emptyset$
Overall Length lens only:	72.02mm



#### CANON K-35 35mm (T1.4) LENS

Focal Length:	35mm
Maximum relative aperture (T-stop):	1:1.4
Lens construction:	9 Components 10 Elements
Wavelength range for color correction:	400-700m $\mu$
Image format covered:	22.05 x 16.03 dia. 27.26mm
Angular field of view:	34.4 x 25.4 dia. 41.9°
Minimum object distance:	0.3m
Clear aperture of front glass:	48.0mm $\emptyset$
Clear aperture of rear glass:	37.0mm $\emptyset$
Overall Length lens only:	87.10mm



#### CANON K-35 55mm (T1.4) LENS

Focal Length:	55mm
Maximum relative aperture (T-stop):	1:1.4
Lens construction:	6 Components 8 Elements
Wavelength range for color correction:	400-700m $\mu$
Image format covered:	22.05 x 16.03 dia 27.26mm
Angular field of view:	22.7 x 16.6 dia. 27.8°
Minimum object distance:	0.6m
Clear aperture of front glass:	44.2mm $\emptyset$
Clear aperture of rear glass:	32.8mm $\emptyset$
Overall Length lens only:	56.74mm



#### CANON K-35 85mm (T1.4) LENS

Focal Length:	85mm
Maximum relative aperture (T-stop):	1:1.4
Lens construction:	6 Components 8 Elements
Wavelength range for color correction:	400-700m $\mu$
Image format covered:	22.05 x 16.03 dia. 27.26mm
Angular field of view:	15.1 x 11.0 dia. 18.6°
Minimum object distance:	0.9m
Clear aperture of front glass:	68.0mm $\emptyset$
Clear aperture of rear glass:	32.8mm $\emptyset$
Overall Length lens only:	74.20mm



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Ultra-fast lenses with aspherical elements that reduce flare, sharply improve definition and contrast, and make night-for-night 35mm cinematography by available low light particularly successful.

24mm (T1.6)



35mm (T1.4)



55mm (T1.4)



85mm (T1.4)



Developed as part of a research program jointly carried out by Canon Inc. and Cinema Products Corporation, in cooperation with the Research Center of the Association of Motion Picture and Television Producers, the Canon high speed aspheric lenses were especially designed to meet the critical tolerances required for professional 35mm cinematography.

Vastly superior to conventional high speed lenses, as well as to any other high speed aspheric lenses currently available for professional 35mm cinematography, the Canon aspherics (which are supplied with BNCR-type mounts) cover the range of focal lengths most used in 35mm cinematography: 24mm, 35mm, 55mm and 85mm.

### Why aspherics?

Aspheric lens design is inherently superior to conventional lens design because it permits the best possible use of all available light.

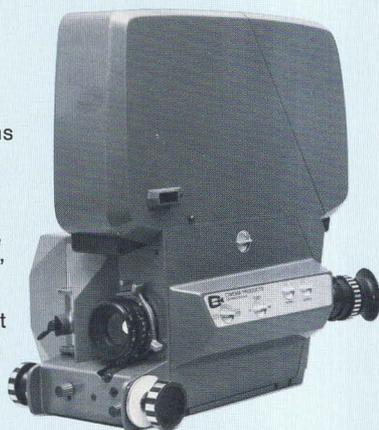
All spherical lenses — even the highest quality — tend to “fall off” in sharpness at the edges to a greater or lesser degree, so that it is necessary to “stop down” from maximum aperture in order to get a truly sharp picture.

The aspherical surface, on the other hand, changes the diffraction characteristic of the light. By causing the marginal rays to be in sharp focus and, at the same time, rejecting random or spurious rays, the aspheric lens reduces aberrations and “flare” when the lens is *wide open*, and “corrects the lens” — particularly at its outer edges. The result is remarkably improved resolution and contrast at *low light levels*, with the lens wide open.

Furthermore, unlike many presently available high speed lenses, the new Canon aspherics, with their multi-coated elements, minimize uncontrolled flare (with its concomitant loss in contrast and resolution) when used at *high levels of illumination*.

### Most ideal for night-for-night cinematography with available light.

The Canon series of aspheric prime lenses for 35mm cinematography is especially suited for night-for-night photography with available light — which is very much the trend in filmmaking today. The Canon aspheric lenses reduce glare sharply and improve definition and contrast of the scene *regardless* of variation of light level.



XR35 Lightweight Studio Camera with Canon 55mm T1.4 Aspheric Lens

Shooting at night, at 25 footcandles and even lower, with nothing but neon signs and street lamps for illumination, the Canon aspherics just take the light in: penetrating the scene, holding all the detail, without halating around the edges. The result on film is photography that is clear, sharp, well defined, and well balanced with good color rendition and saturation, especially with regard to flesh tones.

### The dramatic results on film will convince you.

Before embarking on any film project, especially one involving night-for-night photography with available light, test out the Canon aspheric lenses and compare them with any other professional lenses currently available for 35mm cinematography. Ask your dealer, or write to Cinema Products, to arrange for a screening of our dramatic 35mm 400 ft. test reel *comparing* the Canon aspherics with other professional high speed 35mm spheric and aspheric lenses.

Seeing the results on film you are sure to agree: the Canon aspherics are *superior*.



Canon 55mm T1.4 aspheric lenses shown mounted on a Mitchell Mark II/S35R camera and an Arriflex 2C camera. (Both cameras are shown with the Cinema Products “hard front” conversion which permits interchangeable use of all BNCR-type mount lenses.)

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