



Features

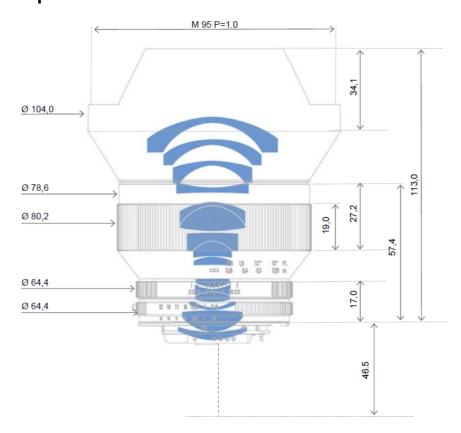
- Fast f/2.8 aperture
- Precise manual focusing
- Robust full-metal construction
- Identical color reproduction of all models
- For industrial cameras with F-Mount up to sensor sizes of 24x36 mm or 43mm line sensors.
- 110° angular field

Camera Mounts

Available for other camera mounts such as EF, or M42 screw mount.



Technical Specifications

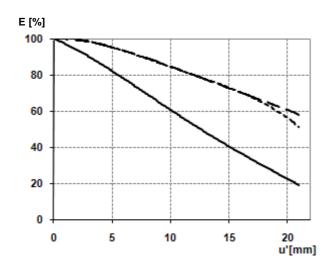


Focal length	15 mm
Aperture range	f/2.8 — f/22 (1/ 2 stop intervals)
Number of elements / groups	15/12
Min. working distance (object to sensor)	250 mm (0.83 ft.) − ∞
Min. free working distance	90 mm (0.3 ft.) – ∞
Angular field* (diag. / horiz. / vert.)	110 / 100 / 76°
Max. diameter of image field	43 mm (1.7")
Flange focal length	F-mount: 46.5 mm (1.8"); M42 Mount: 45,5 mm
Coverage at close range	340 x 221 mm (13.4 x 8.7"), line 387 mm (15")
Image ratio at close range	1:9
Filter-thread	M 95 x 1.0
Weight	730 g (1.61 lbs.)
Camera mount	F bayonet, M42, EF

^{*} referring to 35 mm format



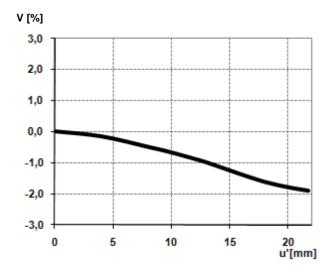
Relative Illuminance*



The relative illumination shows the decrease in image brightness from the image center to the edge in percent.

- f-number = 2.8
- \dots f-number = 5.6
- ---f-number = 8

Relative Distortion*

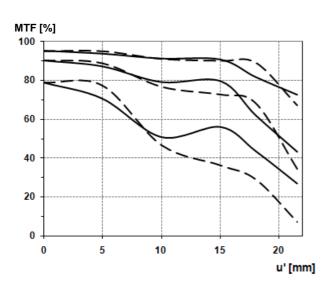


The relative distortion shows the deviation of the actual image height from the ideal one in percent.

^{*}Data for infinite focus setting



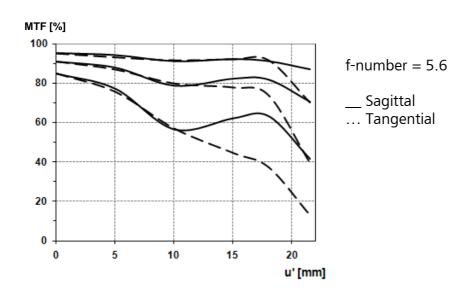
MTF Charts*



The Modulation Transfer (MTF) as a function of image height (u) and slit orientation (sagittal, tangential) has been measured with white light at spatial frequencies of R = 10, 20 and 40 cycles/mm.

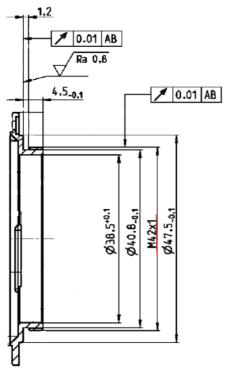
f-number = 2.8

__ Sagittal ... Tangential



*Data for infinite focus setting





M42 Mount for 45,5 mm Flange Focal Distance

The diameter of the camera/lens adapter must not exceed 55 mm at the lens side!