



ZEISS Dimension 2.8/8



Features

- fast f/2.8 aperture
- excellent image quality, leading to highest data precision over the complete image field
- for industrial cameras up to sensor sizes of 4/3"
- robust full-metal construction made of aluminium
- small and compact
- possibility to adjust the back focal distance to compensate for tolerances of camera bayonets
- possibility for azimuthal adjustment ensures best possible readability of scales
- fixable focus and aperture settings
- optimized spectral transmission in VIS and near IR range through ZEISS T* coating

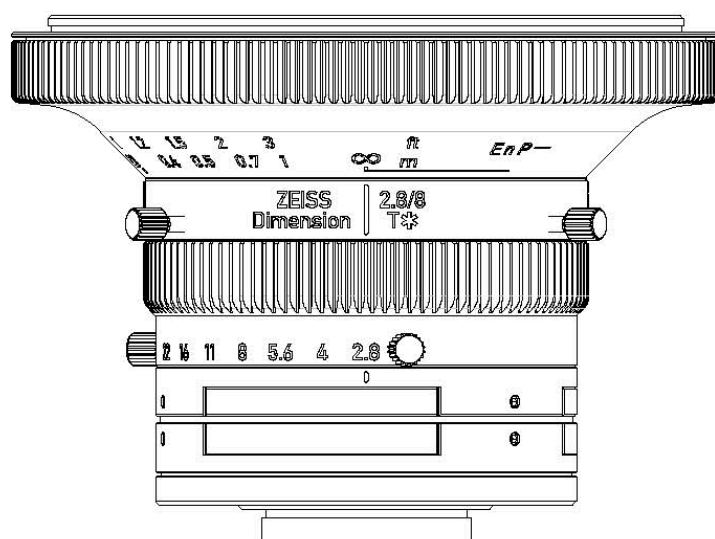
Camera Mount

Available with
C mount



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Technical Specifications



Optical data:

| | |
|---|--|
| Focal length | 8 mm |
| Aperture range | f/2.8 – f/22 (continuous) |
| Number of elements / groups | 14 / 8 |
| Focus range (object to sensor) | 180,6mm (0.59 ft)- ∞ |
| Min. free working distance | 102,1mm (0.33 ft) |
| Angular field (diag. / horiz. / vert.) | 1" : 88.15° / 77.59° / 56.41° 4/3" : 105.97° / 93.19° / 76.74° |
| Max. diameter of image field | 1" : 16mm (0.63"); 4/3" : 21,64mm (0.83") |
| Flange focal distance (in air) | 17,526mm (0.69"), C mount |
| Coverage at close range | 1" : 189,6mm x 126,0mm (7.46" x 4.96") 4/3" : 250,5mm x 186,7mm (9.86" x 7.35") |
| Image ratio at close range | 1:14.3 |
| Position of entrance pupil (relative to image sensor) | 62,3 mm (2.45") |
| Position of exit pupil (relative to image sensor) | 40,1 mm (1.58") |

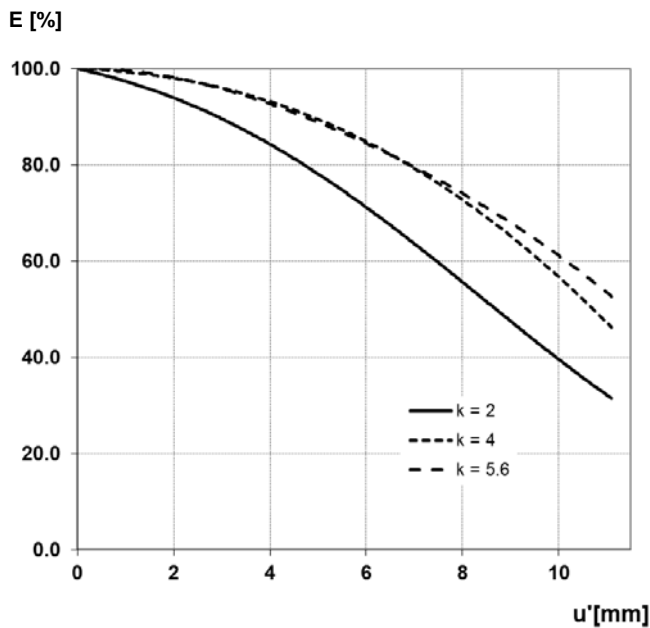
Physical data:

| | |
|---|------------------|
| Length (front to mount contact surface) (at inf.) | 59,0 mm (2.32") |
| Length (front to mount contact surface) (at MOD) | 59,0 mm (2.32") |
| Diameter (lens only) | 86,0 mm (3.39") |
| Diameter (with fixation screws) | 86,0 mm (3.39") |
| Filter-thread | M72 x 0.75 |
| Weight | 376 g (0.83 lbs) |
| Camera mount | C mount |



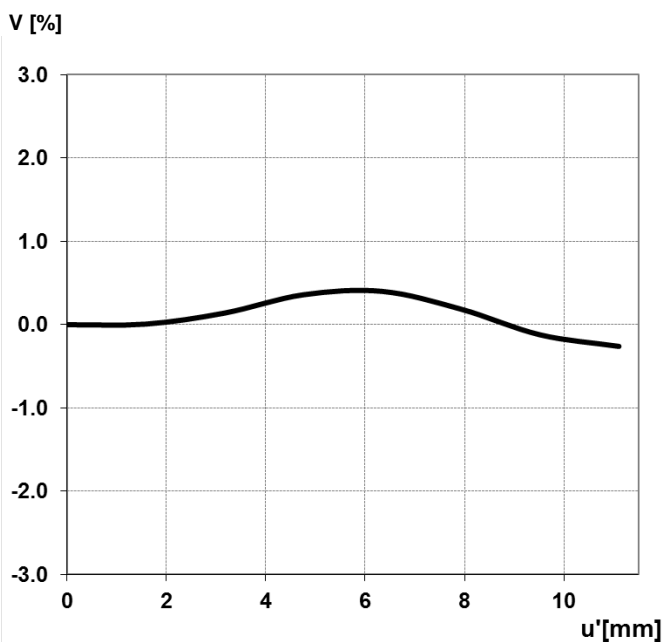
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Relative Illuminance*



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

Relative Distortion*



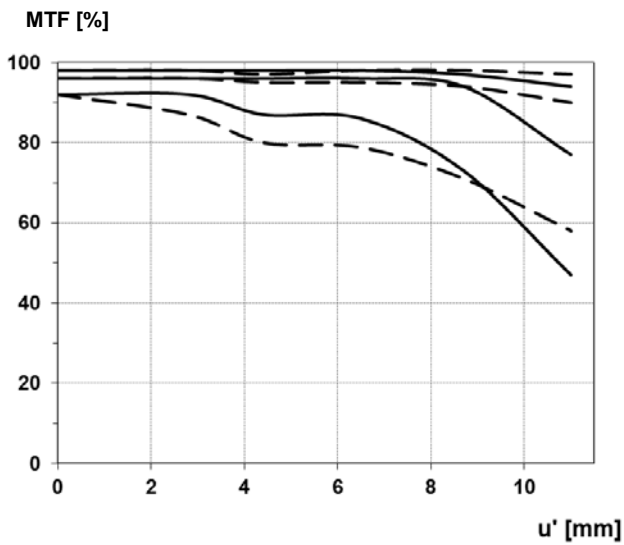
The relative distortion shows the deviation of the actual image height from the ideal one in percent.

*Data for infinite focus setting



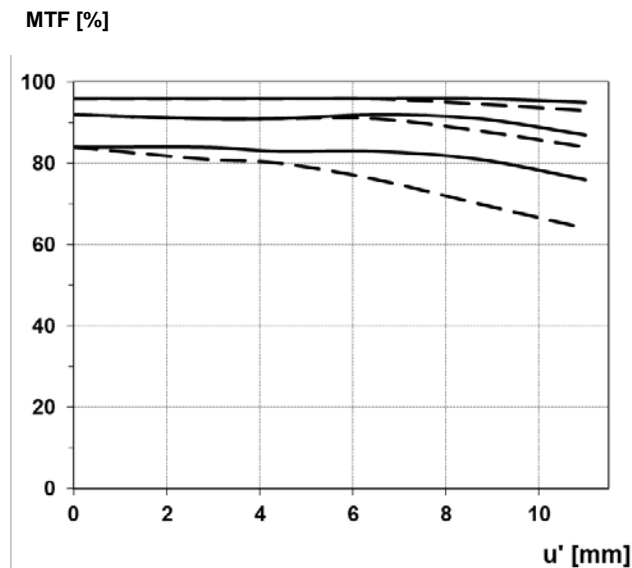
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MTF Charts*



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



f-number 5.6
— Sagittal
... Tangential

*Data for infinite focus setting



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Spectral Transmission

