



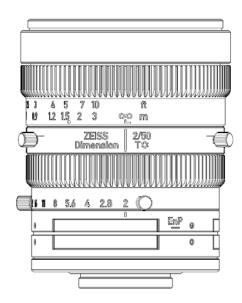
Features

- fast f/2 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



Technical Specifications



Optical data:

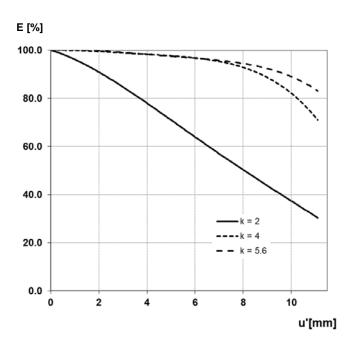
| Focal length | 50 mm |
|---|---|
| Aperture range | f/2 – f/22 (continuous) |
| Number of elements / groups | 10 / 6 |
| Focus range (object to sensor) | 390,3 mm (1.28 ft.) — ∞ |
| Min. free working distance | 311,2 mm (1.02 ft.) |
| Angular field (diag. / horiz. / vert.) | 1": 17.81°/14.89°/9.98° |
| | 4/3'': 24.00°/19.37°/14.66° |
| Max. diameter of image field | 1": 16 mm (0.63"); 4/3": 21.64 mm (0.83") |
| Flange focal length (in air) | 17,526 mm (0.69''), C mount |
| Coverage at close range | 1": 72,3 mm x 48,2 mm (2.85 x 1.89") |
| | 4/3": 94,7 mm x 71,2 mm (3.73 x 2.80") |
| Image ratio at close range | 1:5.5 |
| Position of entrance pupil (relative to image sensor) 63,8 mm (2.51") | |
| Position of exit pupil (relative to image sensor) | 38,9 mm (1.53") |
| | |

Physical data:

| Length (front to mount contact surface at inf.) | 69,0 mm (2.72") |
|---|------------------|
| Length (front to mount contact surface at MOD) | 81,0 mm (3.19") |
| Diameter (lens only) | 57,0 mm (2.24") |
| Diameter (with fixation screws) | 64,0 mm (2.52") |
| Filter-thread | M49 x 0.75 |
| Weight | 306 g (0.67 lbs) |
| Camera mount | C mount |

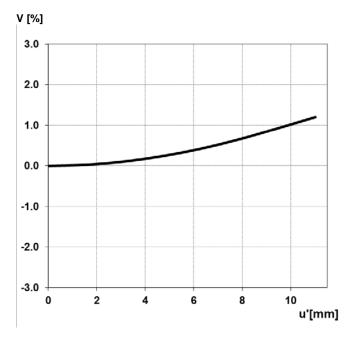


Relative Illuminance*



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

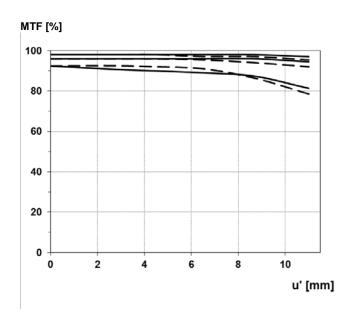
Relative Distortion*



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



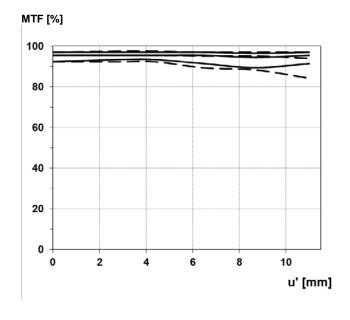
MTF Charts*



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

- ___ Sagittal
- _ _ Tangential



f-number 4
__ Sagittal
_ _ Tangential

^{*}Data for infinite focus setting



Spectral Transmission

