ZEISS Dimension 2/35

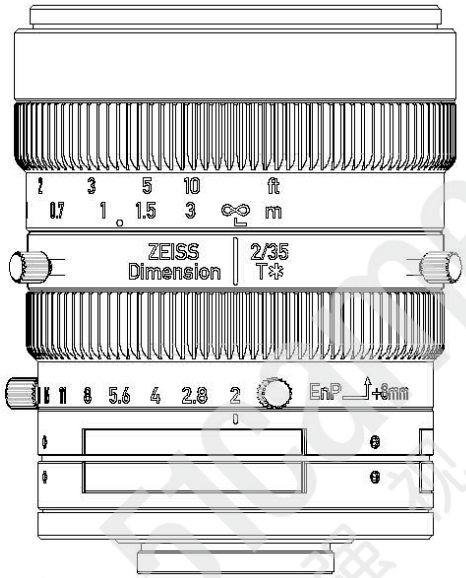
Features

- 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

ZEISS Dimension 2/35

Technical Specifications

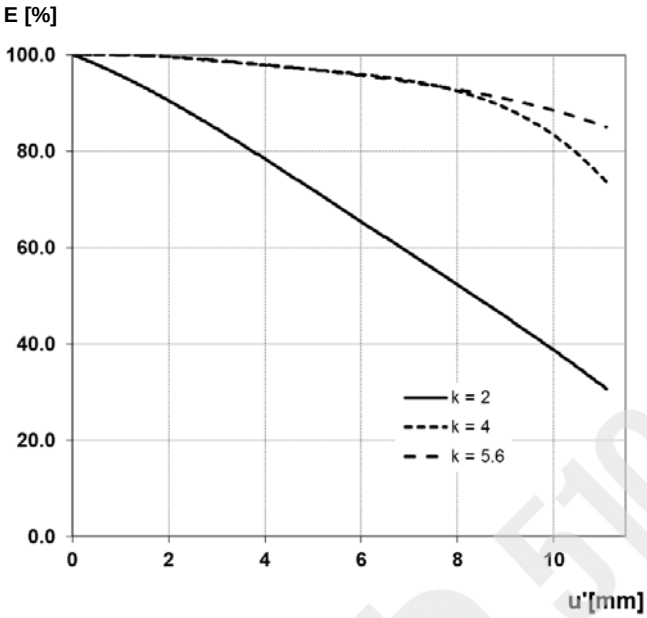


Optical Data:	
Focal length	35mm
Aperture range	f/2 – f/22 (continuous)
Number of elements / groups	13 / 8
Focus range (object to sensor)	288,6mm (0.95 ft)- ∞
Min. free working distance	209,2mm (0.69 ft)
Angular field (diag. / horiz. / vert.)	**1":** 25.24° / 21.04° / 14.06° **4/3":** 34.25° / 27.49° / 20.73°
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":** 73,7mm x 49,0mm (3.14" x 1.93") **4/3":** 96,9mm x 72,6mm (3.82" x 2.89")
Image ratio at close range	1:5.6
Position of entrance pupil (relative to image sensor)	45,1mm (1.77")
Position of exit pupil (relative to image sensor)	37,7mm (1.48")

Physical Data:	
Length (front to mount contact surface) (at inf.)	70,0mm (2.76")
Length (front to mount contact surface) (at MOD)	70,0mm (2.76")
Diameter (lens only)	57,0mm (2.24")
Diameter (with fixation screws)	64,0mm (2.52")
Filter-thread	M49 x 0.75
Weight	323g (0.71lbs)
Camera mount	C mount

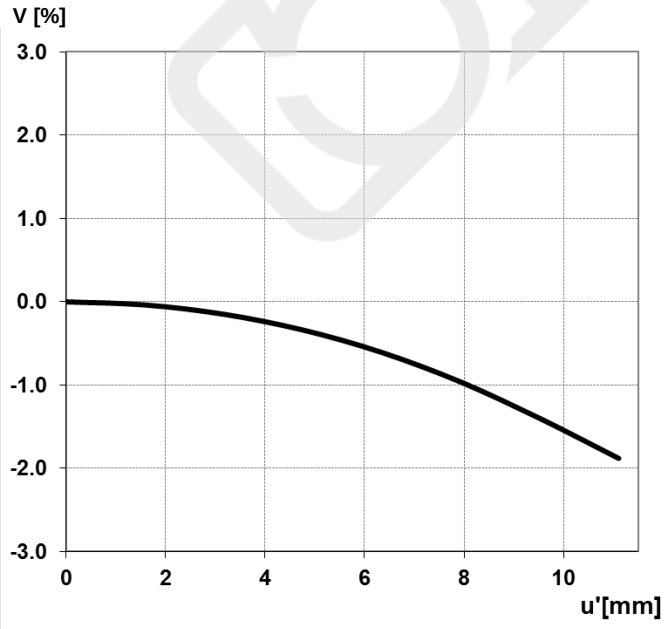
ZEISS Dimension 2/35

Relative Illuminance*



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

Relative Distortion*

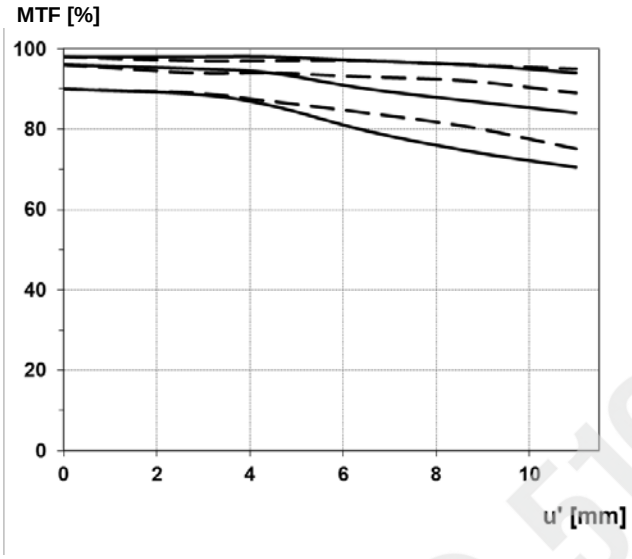


The relative distortion shows the deviation of the actual image height from the ideal one in percent.

**Data for infinite focus setting*

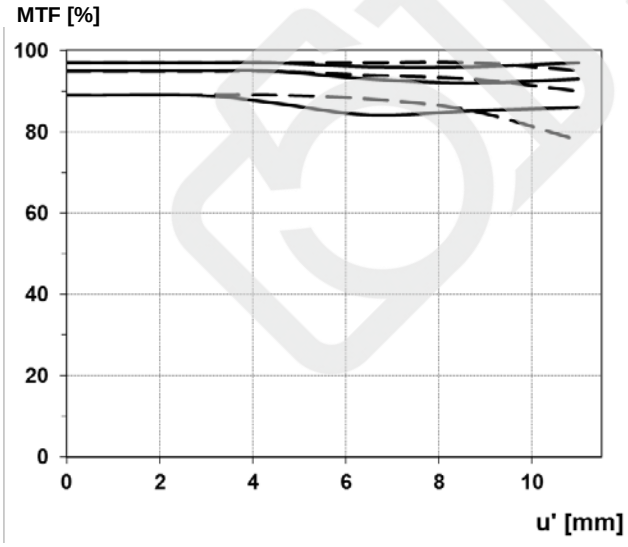
ZEISS Dimension 2/35

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*

ZEISS Dimension 2/35

Spectral Transmission