



# ZEISS Dimension 2/25



## Features

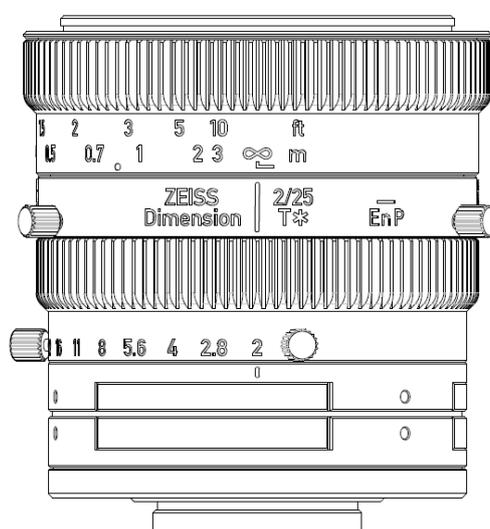
- fast f/2 aperture
- excellent image quality, leading to highest data precision over the complete image field
- for industrial cameras up to sensor sizes of 4/3"
- robust full-metal construction made of aluminium
- small and compact
- possibility to adjust the back focal distance to compensate for tolerances 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



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## Technical Specifications



### Optical data:

<b>Focal length</b>	25 mm
<b>Aperture range</b>	f/2 – f/22 (continuous)
<b>Number of elements / groups</b>	13 / 8
<b>Focus range (object to sensor)</b>	231,9 mm (0.77 ft.) – ∞
<b>Min. free working distance</b>	152,5 mm (0.50 ft.)
<b>Angular field (diag. / horiz. / vert.)</b>	<b>1"</b> : 34.50°/28.97°/19.54° <b>4/3"</b> : 45.91°/37.41°/28.55°
<b>Max. diameter of image field</b>	<b>1"</b> : 16 mm (0.63"); <b>4/3"</b> : 21.64 mm (0.83")
<b>Flange focal length (in air)</b>	17,526 mm (0.69"), C mount
<b>Coverage at close range</b>	<b>1"</b> : 82,4 mm x 55,0 mm (3,24 x 2,17") <b>4/3"</b> : 107,9 mm x 81,2 mm (4,25 x 3,20")
<b>Image ratio at close range</b>	1:6.3
<b>Position of entrance pupil (relative to image sensor)</b>	55,58 mm (2.19")
<b>Position of exit pupil (relative to image sensor)</b>	38,9 mm (1.53")



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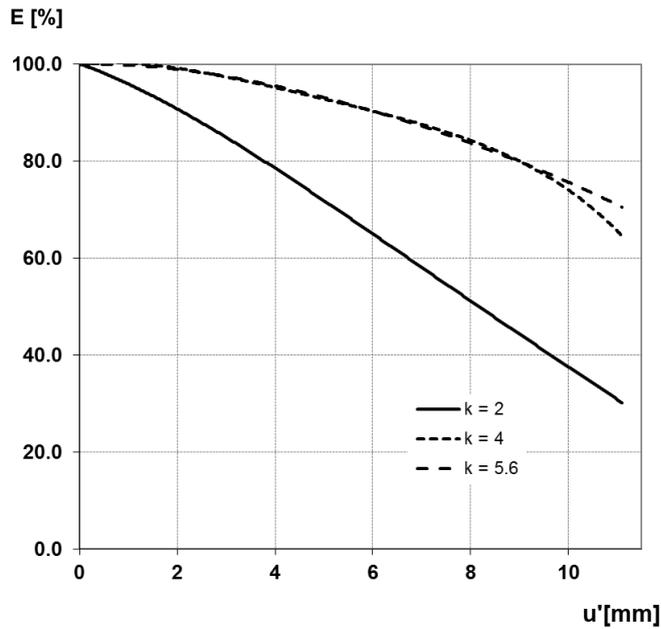
## **Physical data:**

<b>Length (front to mount contact surface at inf.)</b>	60,0 mm (2.36")
<b>Length (front to mount contact surface at MOD)</b>	60,0 mm (2.36")
<b>Diameter (lens only)</b>	57,0 mm (2.24")
<b>Diameter (with fixation screws)</b>	64,0 mm (2.52")
<b>Filter-thread</b>	M43 x 0.75
<b>Weight</b>	283 g (0.62 lbs)
<b>Camera mount</b>	C mount



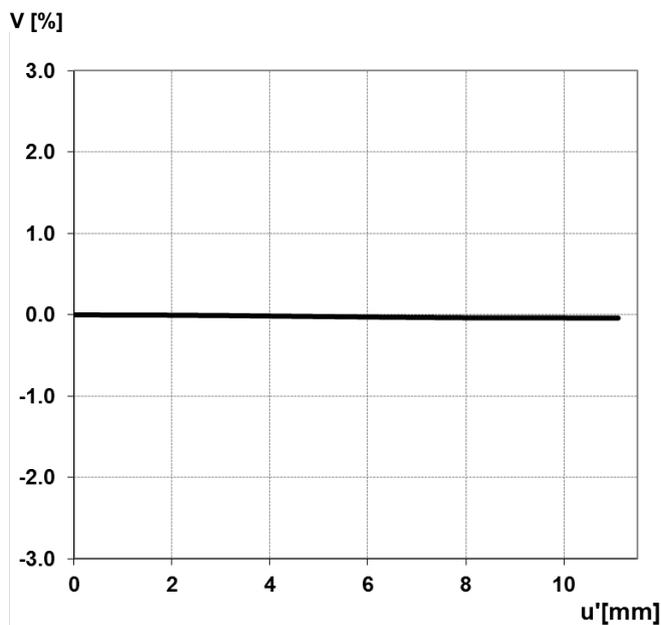
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## Relative Illuminance\*



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

## Relative Distortion\*



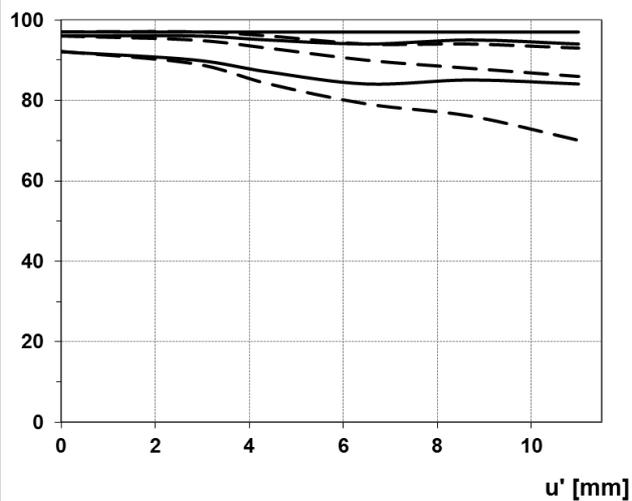
The relative distortion shows the deviation of the actual image height from the ideal one in percent.



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## MTF Charts\*

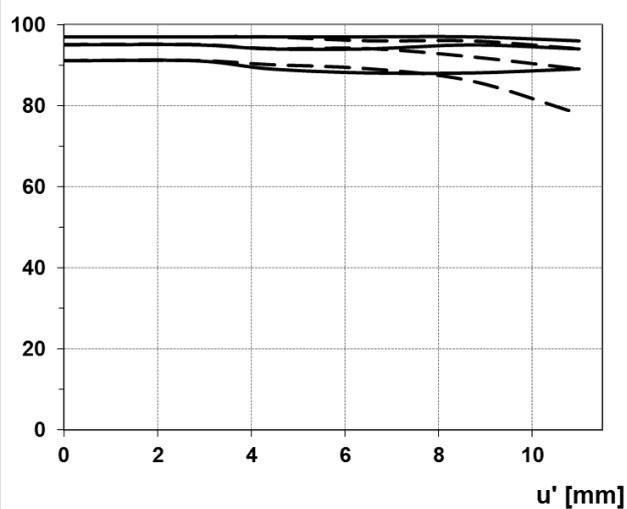
MTF [%]



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

MTF [%]



f-number 4  
— Sagittal  
-- Tangential

\*Data for infinite focus setting



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## Spectral Transmission

