



Pyramid Imaging

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# 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

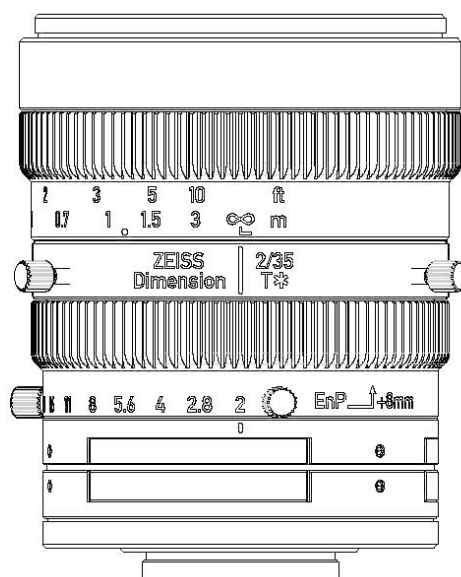
## Camera Mount

Available with  
C mount



# ZEISS Dimension 2/35

## Technical Specifications



### Optical Data:

|  |  |
|--|--|
| <b>Focal length</b>  | 35mm   |
| <b>Aperture range</b>  | f/2 – f/22 (continuous)  |
| <b>Number of elements / groups</b>                           | 13 / 8   |
| <b>Focus range (object to sensor)</b>                        | 288,6mm (0.95 ft)- ∞   |
| <b>Min. free working distance</b>                            | 209,2mm (0.69 ft)  |
| <b>Angular field (diag. / horiz. / vert.)</b>                | <b>1"':</b> 25.24° / 21.04° / 14.06°<br><b>4/3"':</b> 34.25° / 27.49° / 20.73°               |
| <b>Max. diameter of image field</b>                          | <b>1"':</b> 16mm (0.63"); <b>4/3"':</b> 21,64mm (0.83")                                      |
| <b>Flange focal distance (in air)</b>                        | 17,526mm (0.69"), C mount  |
| <b>Coverage at close range</b>                               | <b>1"':</b> 73,7mm x 49,0mm (3.14" x 1.93")<br><b>4/3"':</b> 96,9mm x 72,6mm (3.82" x 2.89") |
| <b>Image ratio at close range</b>                            | 1:5.6  |
| <b>Position of entrance pupil (relative to image sensor)</b> | 45,1mm (1.77")   |
| <b>Position of exit pupil (relative to image sensor)</b>     | 37,7mm (1.48")   |

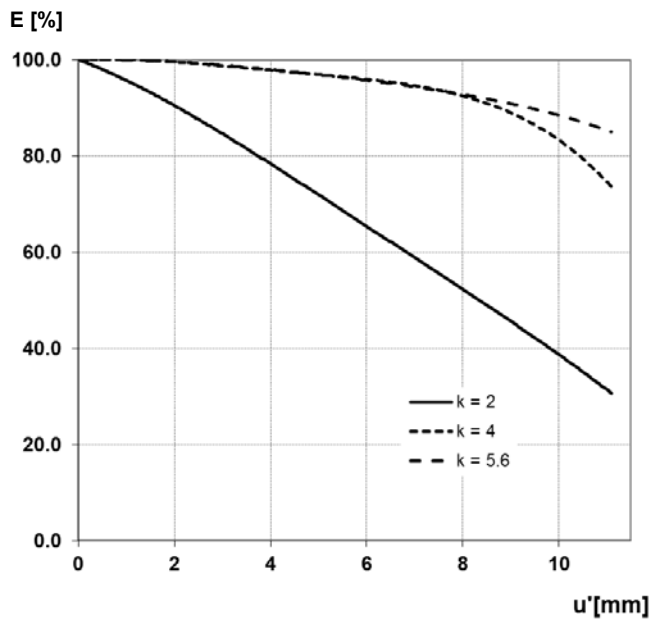
### Physical Data:

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



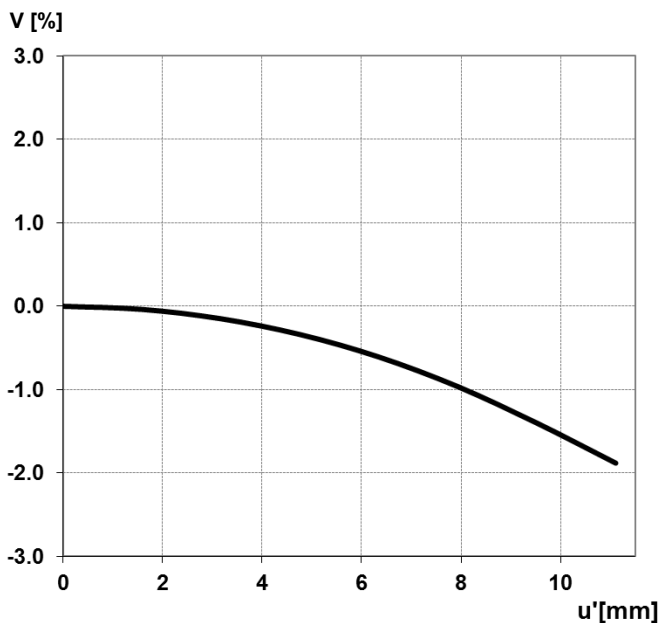
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## Relative Illuminance\*



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

## Relative Distortion\*



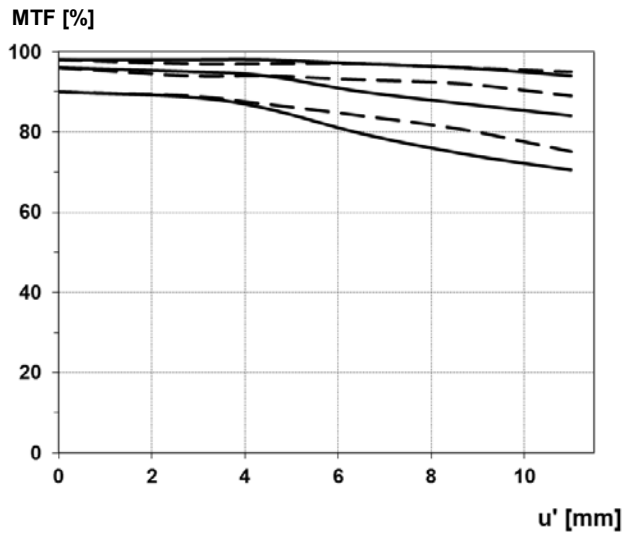
The relative distortion shows the deviation of the actual image height from the ideal one in percent.

\*Data for infinite focus setting



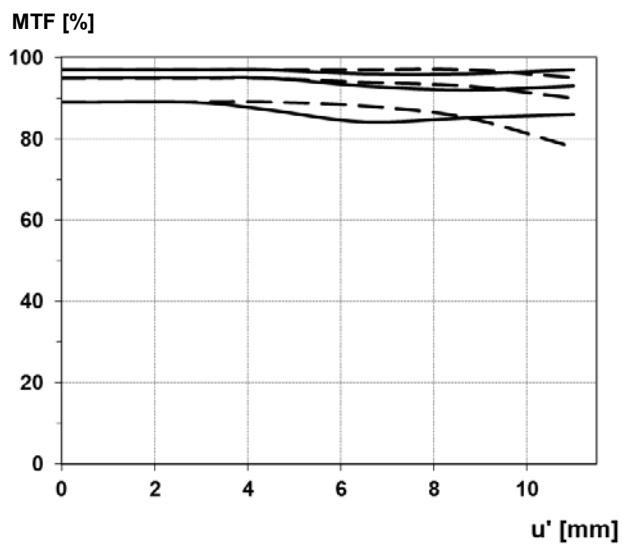
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## MTF Charts\*



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  
— Sagittal  
... Tangential



f-number 4  
— Sagittal  
... Tangential

\*Data for infinite focus setting



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## Spectral Transmission

