



# ZEISS C Sonnar T\* 1.5/50 M42-I



## Features

- Fast 1.5 aperture
- compact standard lens
- Precise manual focusing
- Robust full-metal construction
- Fixation for focus and aperture
- Outstanding image quality
- Compact and lightweight
- For industrial cameras up to sensor sizes of 24x36 mm or 43mm line sensors.

### **M42-I: Industrial Edition**

Features special screws to fix focus and aperture settings even in rough situations.

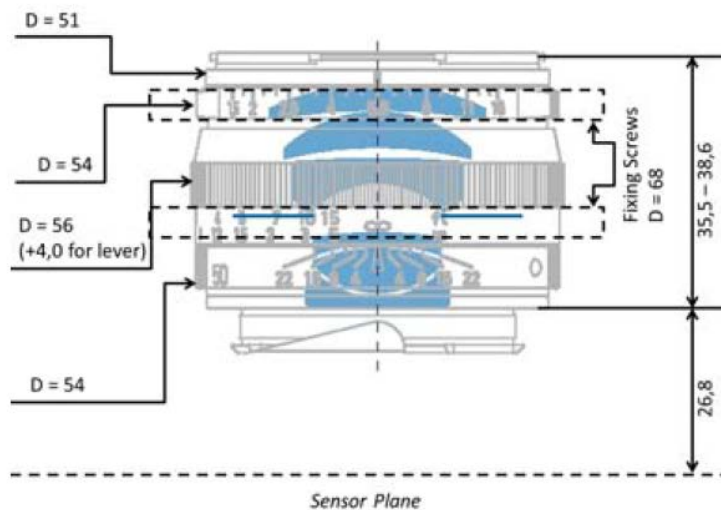
### **Camera Mount**

Available with M42-Mount.



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## Technical Specifications



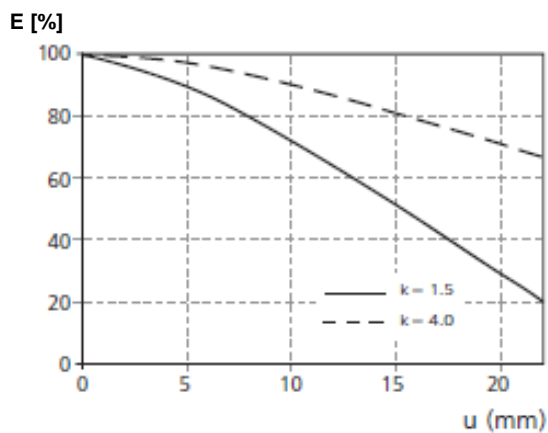
<b>Focal length</b>	50 mm
<b>Aperture range</b>	f/1,5 – f/16 (1/ 3 stop intervals)
<b>Number of elements / groups</b>	6 / 4
<b>Focusing range</b>	0.9 m - ∞
<b>Min. free working distance</b>	830 mm (2.72 ft.)
<b>Angular field* (diag. / horiz. /vert. )</b>	45 / 38 / 26°
<b>Max. diameter of image field</b>	43 mm (1.7")
<b>Flange focal distance</b>	M42-I: 26.8 mm
<b>Coverage at close range*</b>	37 x 55 cm
<b>Image ratio at close range</b>	1:15
<b>Filter-thread</b>	M 46 x 0.75
<b>Weight</b>	250 g (0.55 lbs)
<b>Length</b>	45 mm
<b>Camera mount</b>	M42-I

\* referring to 24x36 mm sensor format



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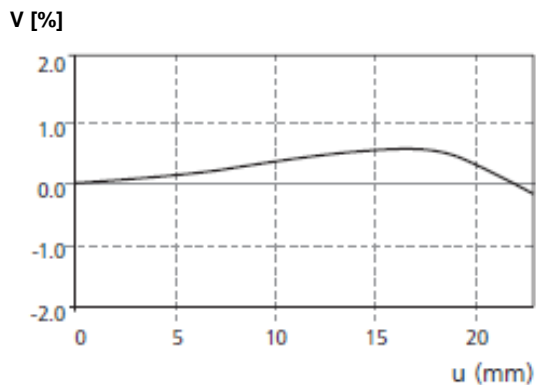
## Relative Illuminance\*



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

— f-number 1.5  
... f-number 4.0

## Relative Distortion\*



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

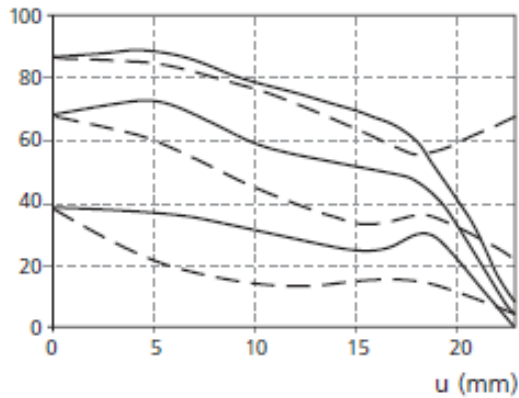
\* data for infinite focus setting



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## MTF Charts\*

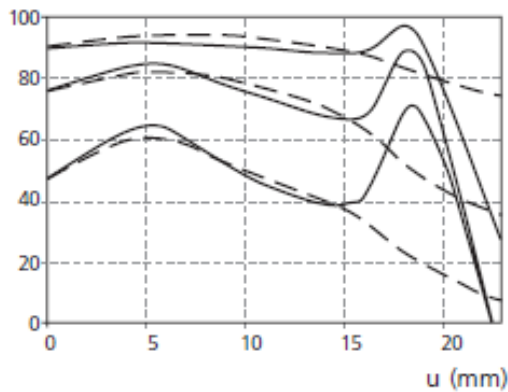
MTF [%] k=1.5



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. The MTF charts are valid for the ZM-version and for white light.

f-number 1.5  
— Sagittal  
... Tangential

MTF [%] k=4.0



f-number 4.0  
— Sagittal  
... Tangential

\* data for infinite focus setting