



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.

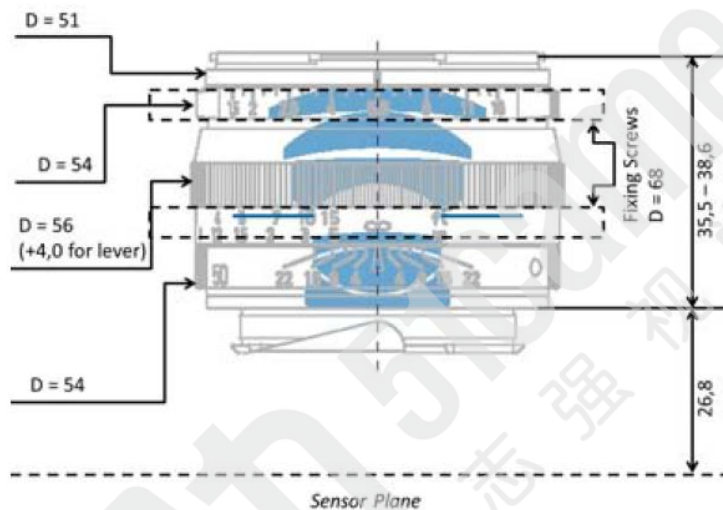
Camera Mount

Available with M42-Mount.



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Technical Specifications



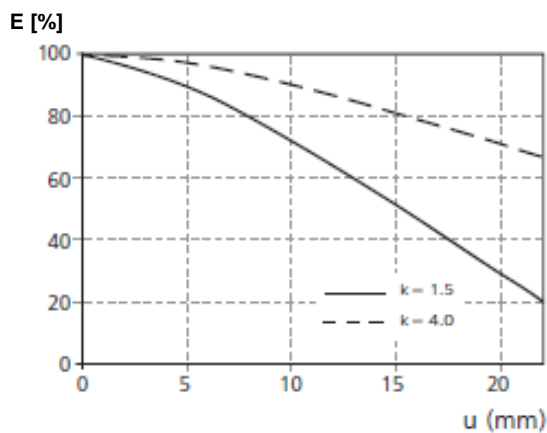
Focal length	50 mm
Aperture range	f/1,5 – f/16 (1/ 3 stop intervals)
Number of elements / groups	6 / 4
Focusing range	0.9 m - ∞
Min. free working distance	830 mm (2.72 ft.)
Angular field* (diag. / horiz. /vert.)	45 / 38 / 26°
Max. diameter of image field	43 mm (1.7")
Flange focal distance	M42-I: 26.8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

* referring to 24x36 mm sensor format



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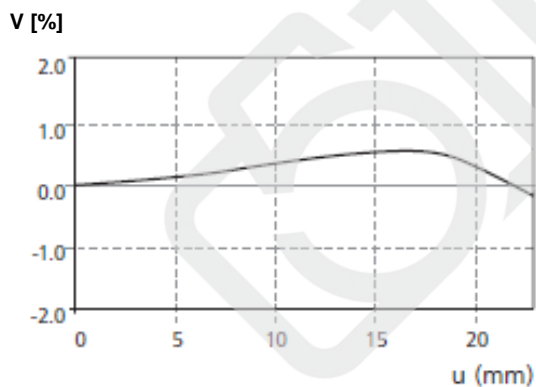
Relative Illuminance*



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.

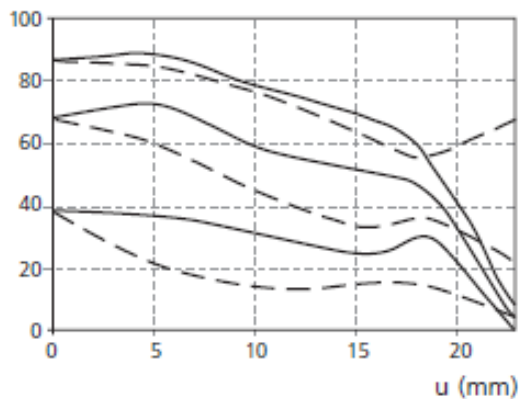
* data for infinite focus setting



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MTF Charts*

MTF [%] $k=1.5$



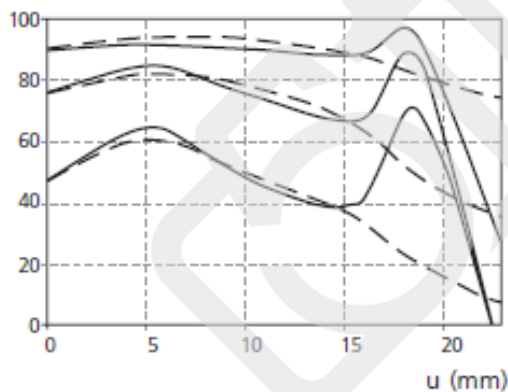
The Modulation Transfer (MTF) as a function of image height (u) and slit orientation (sagittal, tangential) has been measured with white light at spatial frequencies of $R = 10, 20$ and 40 cycles/mm. The MTF charts are valid for the ZM-version and for white light.

f-number 1.5

— Sagittal

... Tangential

MTF [%] $k=4.0$



f-number 4.0

— Sagittal

... Tangential

* data for infinite focus setting