ZEISS Interlock 1.4/50

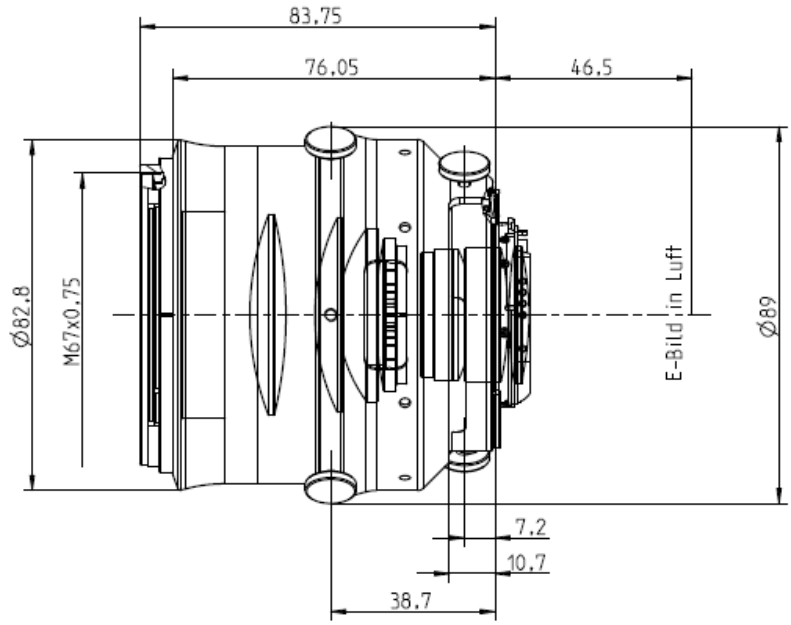
Features

- Very fast f/1.4 aperture
- Precise manual focusing
- Robust full-metal construction
- Continuous aperture setting or click stop
- For industrial cameras up to sensor sizes of 24x36 mm or 41 mm line sensors
- High optical performance both at infinity and at 1:6.7 scale
- Features special screws to fix focus and aperture settings even in rough situations

Camera Mounts
Available with F mount or M42 screw mount

ZEISS Interlock 1.4/50

Technical Specifications

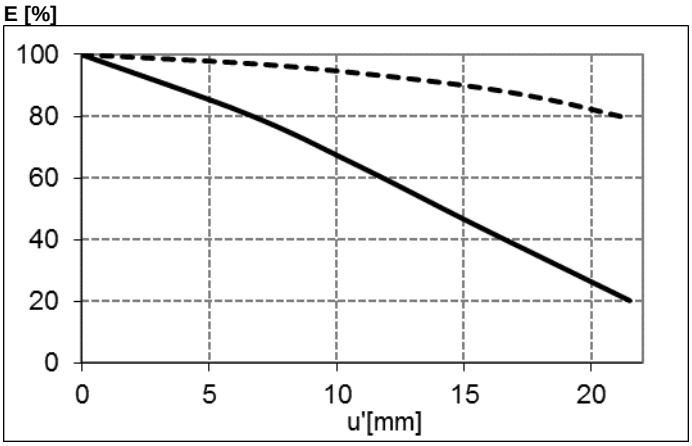


Focal length	50 mm
Aperture range	f/1.4 – f/16 (1/ 2 stop intervals or continuous)
Number of elements / groups	10 / 8
Min. working distance (object to sensor)	450 mm (1.48 ft.) – ∞
Min. free working distance	340 mm (1.12 ft.) – ∞
Angular field* (diag. / horiz. / vert.)	46 / 39 / 26°
Max. diameter of image field	43 mm (1.7")
Flange focal length	F-Mount: 46,5 mm (1.8"); M42-Mount: 45,5 mm
Coverage at close range*	area: 241 x 160 mm (9.5 x 6.3") line: 274 mm (10,8")
Image ratio at close range	1:6.7
Filter-thread	M 67 x 0.75
Weight	942 g (2.1 lbs.)
Camera mount	F bayonet, M42

* referring to 35 mm format

ZEISS Interlock 1.4/50

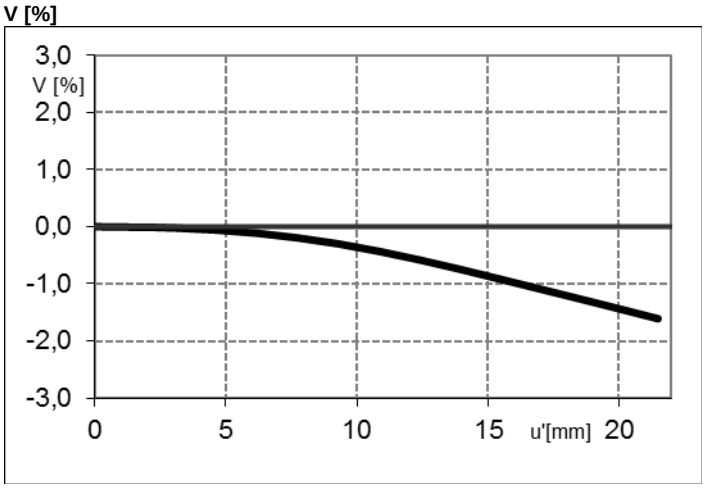
Relative Illuminance*



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

__ f-number 1.4
--- f-number 4

Relative Distortion*

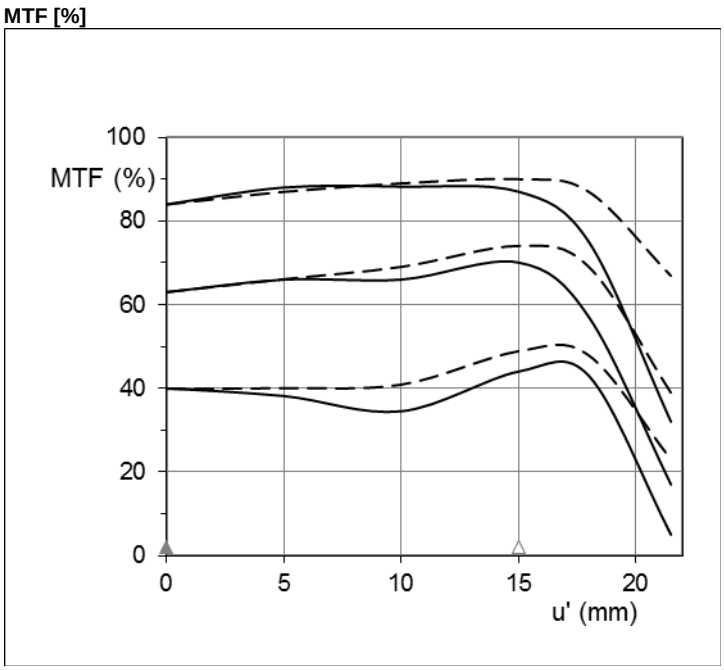


The relative distortion shows the deviation of the actual image height from the ideal one in percent.

**Data for infinite focus setting*

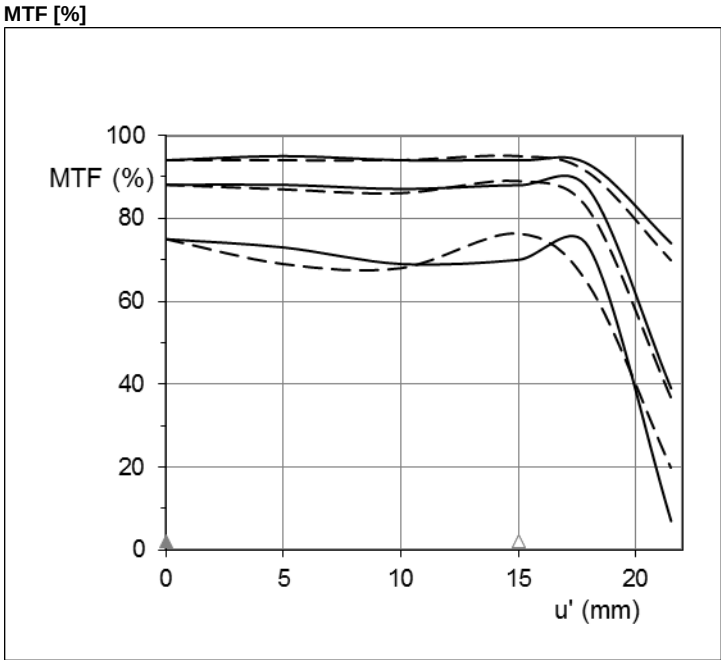
ZEISS Interlock 1.4/50

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 1.4
__ Sagittal
… Tangential

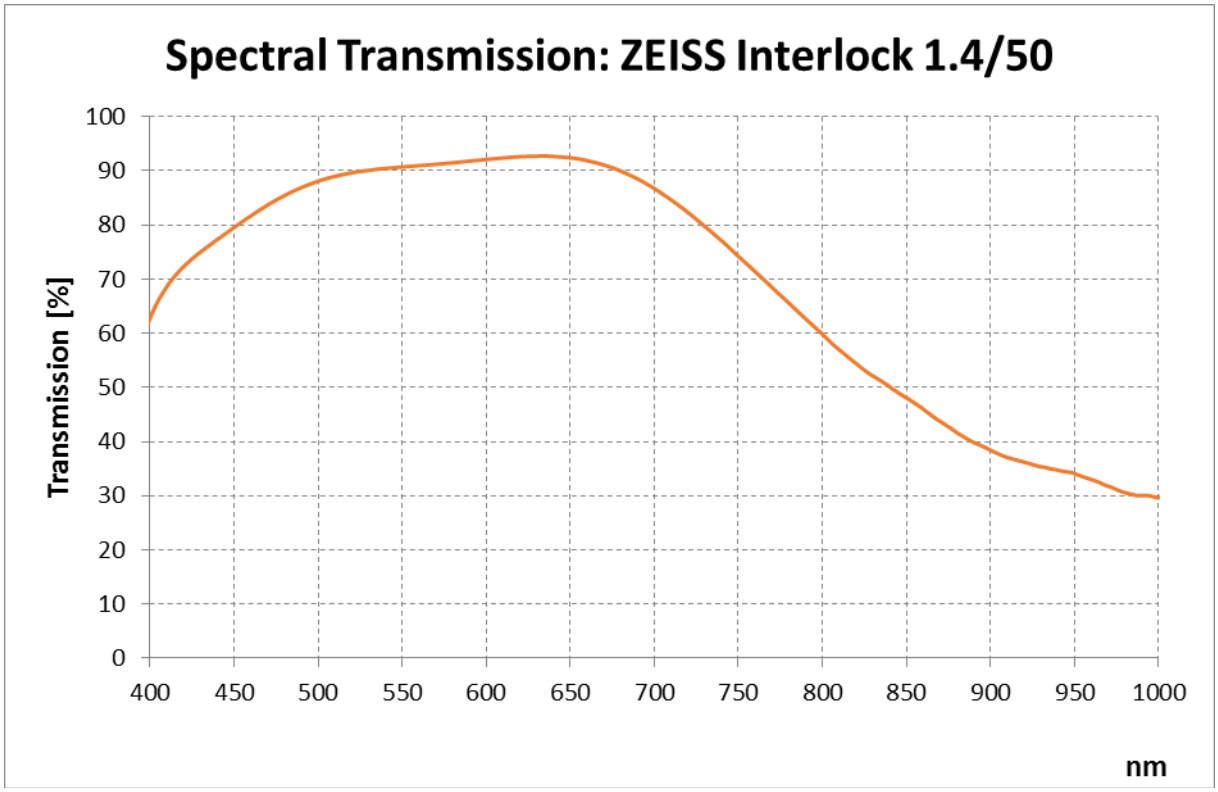


f-number 4
__ Sagittal
… Tangential

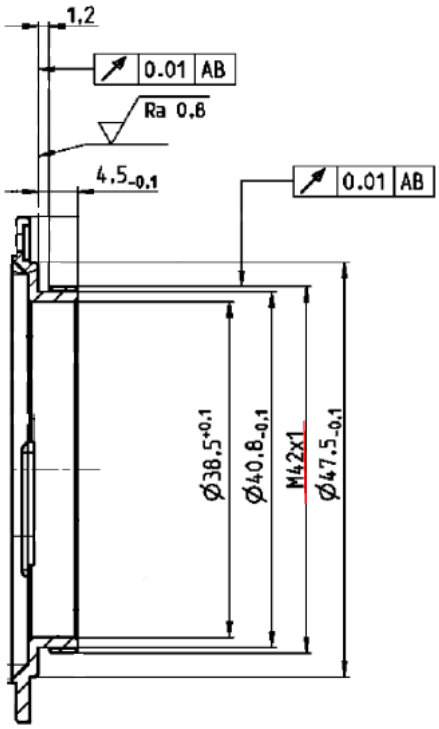
**Data for infinite focus setting*

ZEISS Interlock 1.4/50

Spectral Transmission



ZEISS Interlock 1.4/50



M42 Mount for 45,5 mm Flange Focal Distance

The diameter of the camera/lens adapter must not exceed 55 mm at the lens side!