



Distagon T* 3,5/18 ZF



Features

- A floating elements design ensures performance virtually unchanged from close distance to infinity
- The lens design produces nearly distortion-free images
- Precise manual focusing
- Robust full-metal construction
- Identical color reproduction of all models assures the quality of products measured by hue difference
- Mounts and optical coatings can be modified on request

ZF-I: Industrial Edition

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

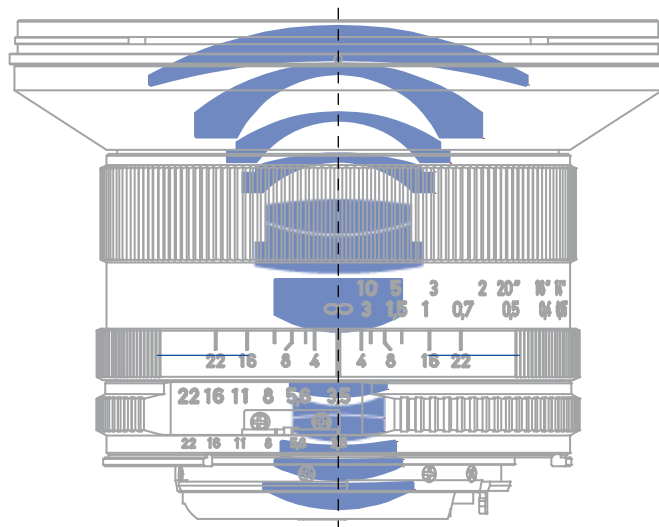
Camera Mounts

Available for other camera mounts such as EF mount.



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Technical Specifications



Focal length	18 mm
Aperture range	f/3.5 – f/22 (1/ 2 stop intervals)
Number of elements / groups	13 / 11
Working distance (object to sensor)	19 cm (0.62 ft) – ∞
Angular field* (diag. / horiz. / vert.)	99 / 90 / 67 °
Max. diameter of image field	43 mm (1.7")
Flange focal length	46.5 mm (1.8")
Coverage at close range	44 x 29 cm (1.7 x 1.1")
Image ratio at close range	1:12
Filter-thread	M 82 x 0.75
Length (without caps)**	59 mm (2.3")
Diameter	87 mm (3.4")
Weight	470 g (16 oz.)
Camera mount***	ZF (F bayonet)

* referring to 35 mm format

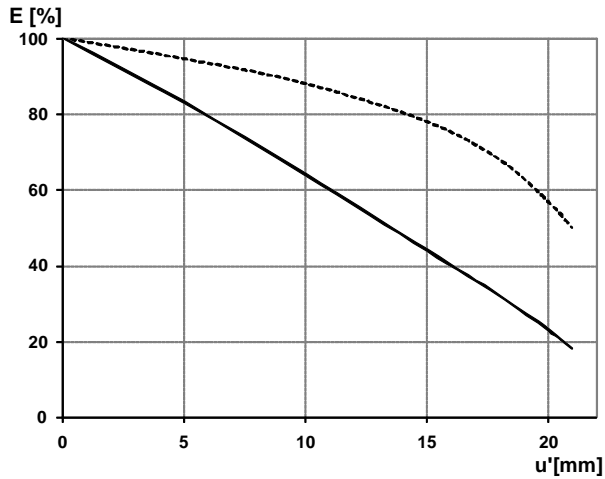
** from bayonet mount to filter thread when lens focused to infinity

*** other mounts available on request



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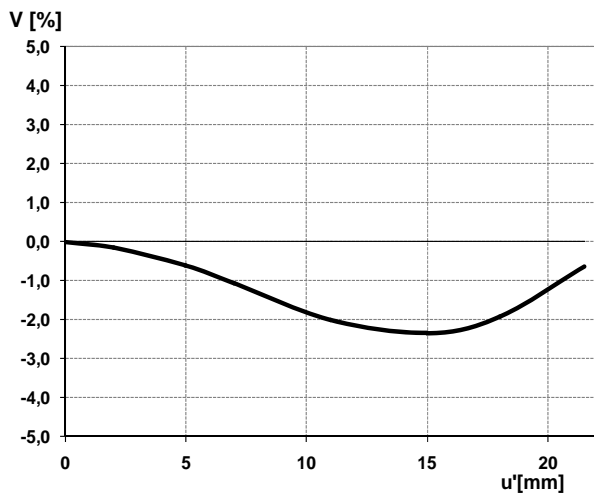
Relative Illuminance



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

— f-number 2
... f-number 4

Relative Distortion



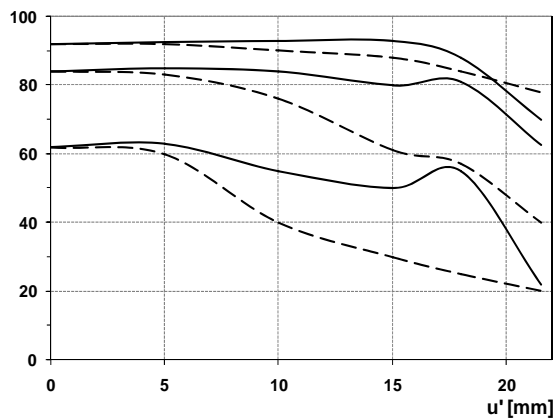
The relative distortion shows in percent the deviation of the actual from the ideal image height.



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MTF Charts

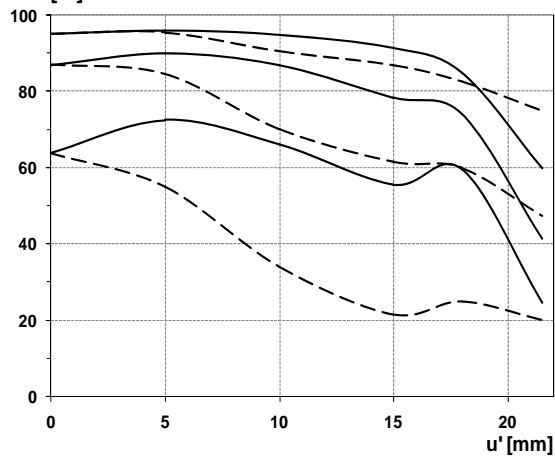
MTF [%]



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 3.5
— Saggital
... Tangential

MTF [%]



f-number 8
— Saggital
... Tangential



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Depth of Field

Aperture	Field range			
	Object distance 3.00 m (9.84 ft)		Object distance 1.00 m (3.28 ft)	
f / 3.5	1.6 – 28.00 m	(5.25 – 91,86 ft)	0.80 – 1.40 m	(2.62 – 4.60 ft)
f / 4	1.50 – ∞	(5.00 – ∞)	0.78 – 1.40 m	(2.56 – 4.60 ft)
f / 5.6	1.30 – ∞	(4.27 – ∞)	0.72 – 1.80 m	(2.36 – 5.90 ft)
f / 8	1.04 m – ∞	(3.41 ft – ∞)	0.64 – 2.70 m	(2.10 – 8.86 ft)
f / 11	0.85 m – ∞	(2.79 ft – ∞)	0.57 – 8.00 m	(1.87 – 26.25 ft)
f / 16	0.66 m – ∞	(2.17 ft – ∞)	0.49 – ∞	(1.61 – ∞)
f / 22	0.53 m – ∞	(1.74 ft – ∞)	0.42 – ∞	(1.38 – ∞)