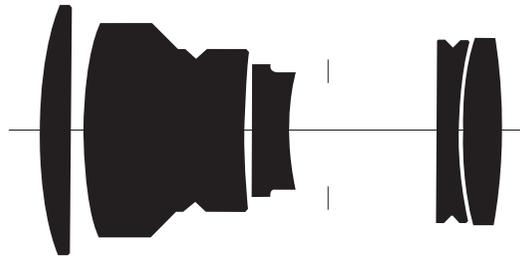
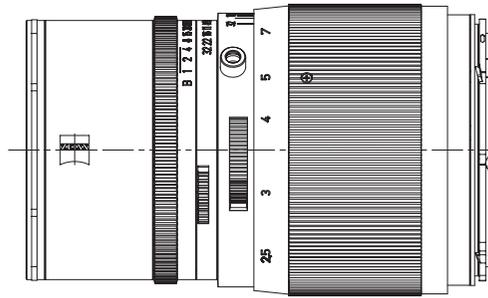


# Sonnar T\* 4/180 ZV

## The High Performance Telephoto Lens

- Fast and quite compact telephoto lens
- Exceptionally high performance over the entire frame and through the entire aperture range, at all distances from infinity to the close-focus limit.
- Extremely durable all-metal precision barrel



## Technical Specifications

**Focal length:** 179.4 mm

**Aperture range:** f/4.0 – f/32 (increments: half f-numbers)

**Number of elements/groups:** 5/4

**Focusing range:** 1.55 m – infinity

**Image ratio at close range:** 1:6.6

**Coverage at close range:** 361 x 361 mm

**Angular field, diag./horiz.:** 24°/18°

**Filter thread:** 67 E

**Outer bayonet:** dia. 60 series

**Weight:** 1130 g

**Dimensions:** ø 80 mm, length 128.4 mm

Subject to change.

### Carl Zeiss AG

Camera Lens Division  
73446 Oberkochen  
Germany

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Fax: +49 73 64 20-40 45  
E-Mail: [photo@zeiss.de](mailto:photo@zeiss.de)  
[www.zeiss.com/photo](http://www.zeiss.com/photo)



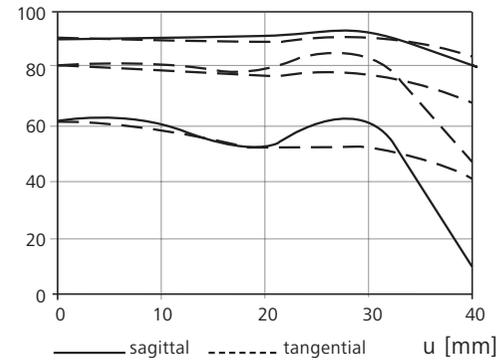
We make it visible.

# Sonnar T\* 4/180 ZV

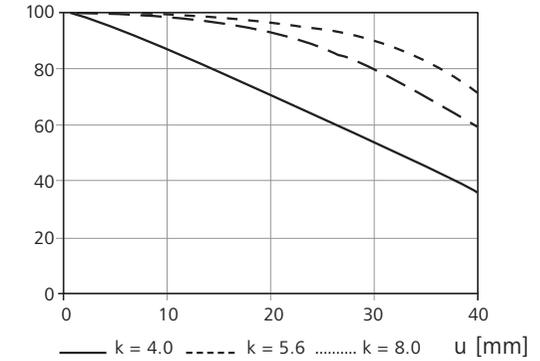
## Performance data

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.

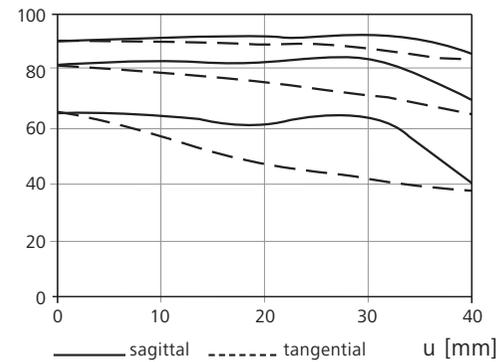
MTF [%], f-number: k = 4.0



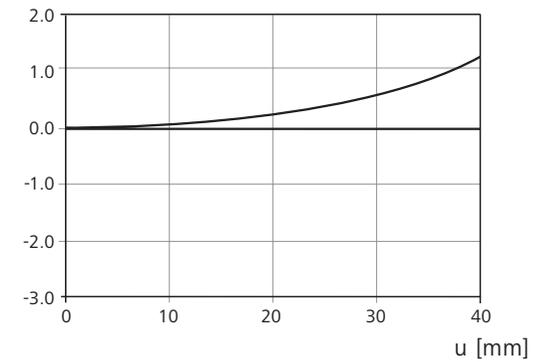
E [%], Relative illuminance



MTF [%], f-number: k = 8.0



V [%], Distortion



Subject to change.

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