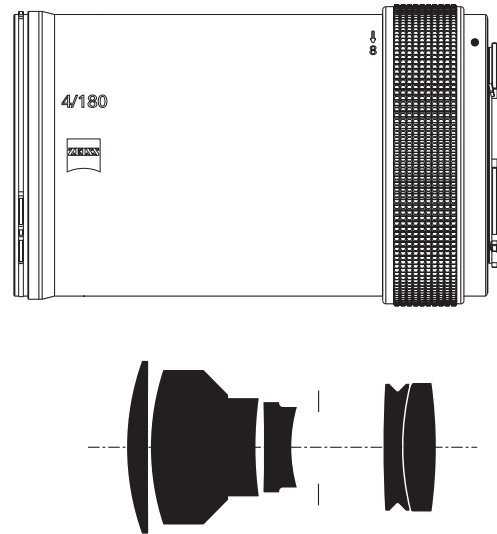


# Sonnar T\* 4/180 ZH

## The Universal Telephoto

The Sinaron Digital AF Sonnar T\* 4/180 ZH is a telephoto lens of impressive performance.

While it is still compact enough to be used handheld, the Sonnar's exceptional sharpness will be most obvious when it is used on a tripod to generate highly detailed, crisp images at any f-stop and any object distance. Color reproduction is exceptionally clean and vibrant. Due to its high performance even at full aperture, image composition with selective focus is easy and will produce impressive results.



## Technical Specifications

**Focal Length:** 180 mm

**Aperture range:** 4–32

**No. of elements/groups:** 5/4

**Focusing range:** 1.55 m – infinity

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

**Coverage at close range:** 24 cm x 31 cm

**Angular field, diag./horiz./vert.:** 19/15/12°

**Filter:** M 86 x 1

**Weight:** 1300 g

**Length:** 160 mm

# sinar

Subject to change.

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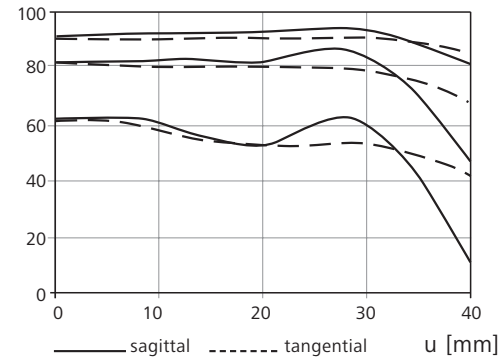
We make it visible.

# Sonnar T\* 4/180 ZH

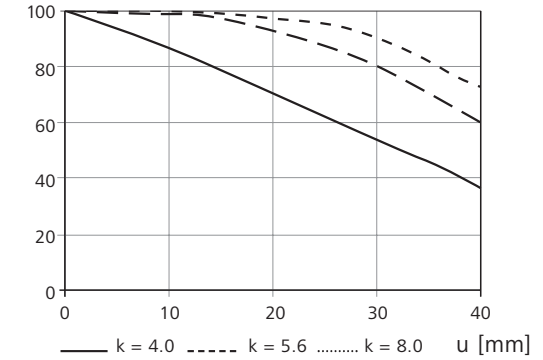
## Performance data

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.

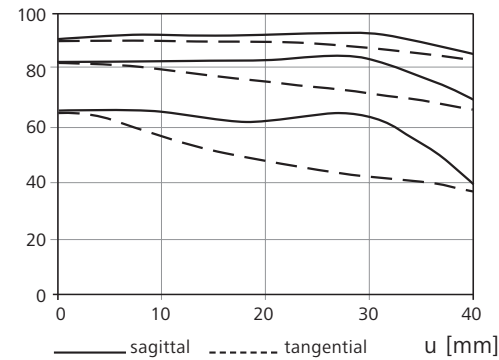
T [%], f-number: k = 4.0



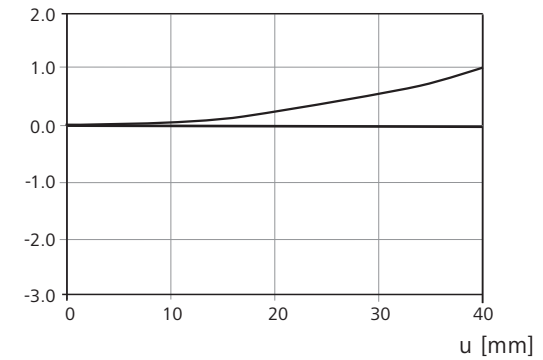
E [%], Relative illuminance



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



V Distortion in % of image height



Subject to change.

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We make it visible.