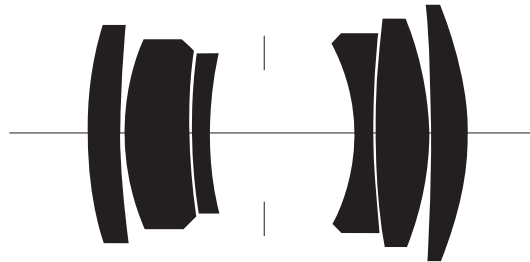
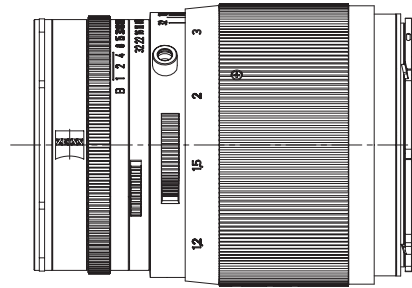


# Makro-Planar T\* 4/120 ZV

## The Classic Macro

- The best proven macro lens for medium format photography in decades – an established industry standard
- Fascinating image quality and undistorted rendering in close-up and product photography – both analog and digital
- Extremely durable all-metal precision barrel



## Technical Specifications

**Focal length:** 120.9 mm

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

**Number of elements/groups:** 6/4

**Focusing range:** 0.8 m – infinity

**Image ratio at close range:** 1:4.5

**Coverage at close range:** 246 x 246 mm

**Angular field, diag./horiz.:** 36°/25°

**Filter thread:** 67 E

**Outer bayonet:** dia. 60 series

**Weight:** 890 g

**Dimensions:** ø 80 mm, length 107,6 mm

Subject to change.

### Carl Zeiss AG

Camera Lens Division  
73446 Oberkochen  
Germany

Tel: +49 73 64 20-61 75  
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)



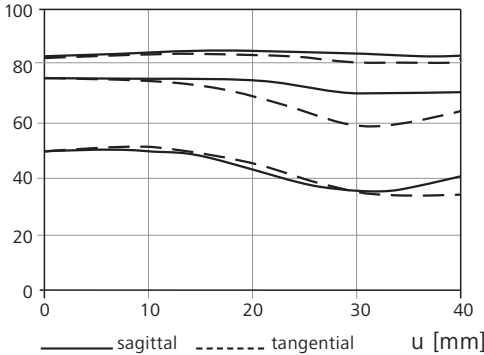
We make it visible.

# Makro-Planar T\* 4/120 ZV

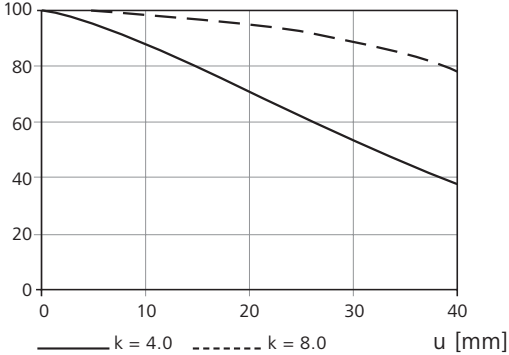
## Performance data

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.

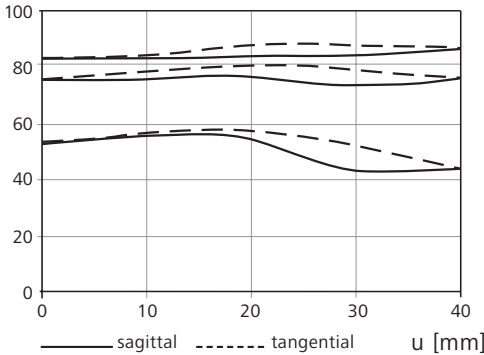
T [%], f-number: k = 4.0



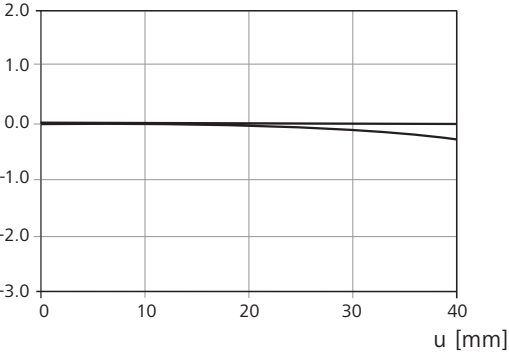
E [%], Relative illuminance



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



V Distortion in % of image height



Subject to change.

**Carl Zeiss AG**  
 Camera Lens Division  
 73446 Oberkochen  
 Germany

Tel: +49 73 64 20-61 75  
 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.