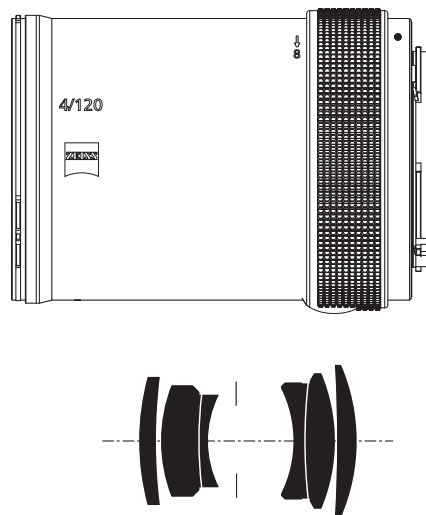


Makro-Planar T* 4/120 ZH

The Close-up Specialist

The Sinaron Digital AF Makro-Planar T* 4/120 ZH is a high-performance lens for close-up photography.

It is the ideal lens for studio photography, product shots and exceptional images of subjects ranging in size from a postcard to a car. This lens provides excellent sharpness, even illumination, chromatic purity and distortion correction over the entire frame. While this lens is optimized for close-up photography it will deliver equally impressive images across the field at normal object distances when stopped down to f/8 or f/11, and provides a pleasing angle of coverage of 35° at infinity, perfectly suited to portraits.



Technical Specifications

Focal Length: 120 mm

Aperture range: 4 – 32

No. of elements/groups: 6/4

Focusing range: 0.8 m – infinity

Image ratio at close range: 1:4.5

Coverage at close range: 16 cm x 22 cm

Angular field, diag./horiz./vert.: 28/23/17°

Filter: M 86 x 1

Weight: 1100 g

Length: 136 mm

sinar

SINAR AG

CH-8245 Feuerthalen
Switzerland
Phone: +41 52 647 07 07
Fax: +41 52 647 06 06
E-Mail: sinar@sinar.ch
www.sinarcameras.com

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
www.zeiss.de/photo

Subject to change.



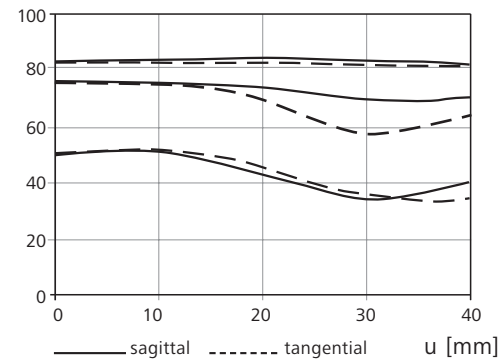
We make it visible.

Makro-Planar T* 4/120 ZH

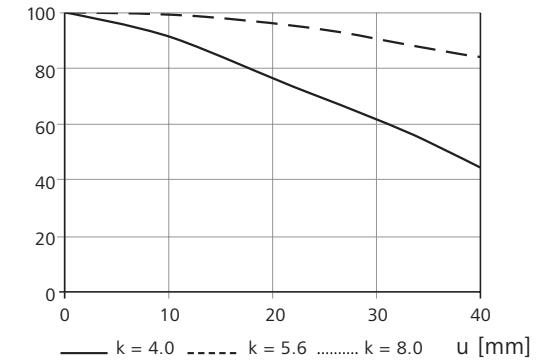
Performance data

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.

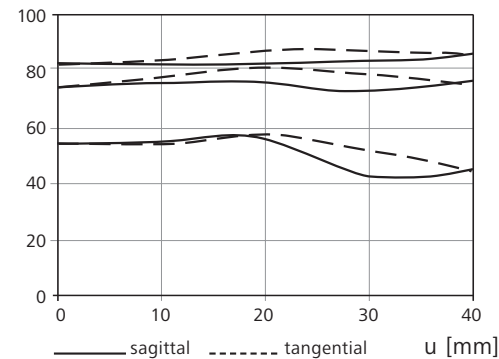
T [%], f-number: k = 4.0



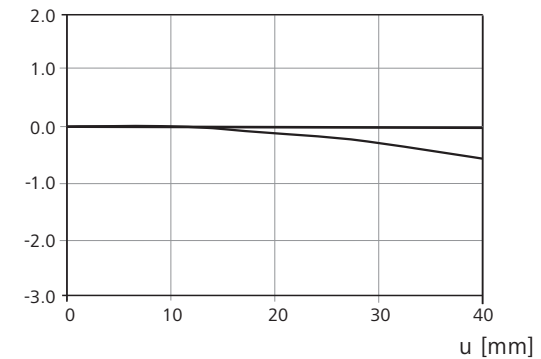
E [%], Relative illuminance



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



V Distortion in % of image height



Subject to change.

SINAR AG

CH-8245 Feuerthalen
Switzerland
Phone: +41 52 647 07 07
Fax: +41 52 647 06 06
E-Mail: sinar@sinar.ch
www.sinarcameras.com

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
www.zeiss.de/photo



We make it visible.