



V-Mount Macro Lens

Apo-Componon 4.0/45-0007

Unlike conventional camera lenses where the optical performance decreases as the magnification increases, Schneider-Kreuznach macro lenses have been developed and corrected exclusively for the close-up range of 1:20 to 1:1. Due to its mechanical stability and the robust V-mount interface enabling simpler adjustment of the best azimuth position, the system is exceptionally well suited to demanding, continuous industrial use.



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Key Features

- Excellent optical imaging performance when using large sensors
- · Vibration-insensitive for stable optical performance
- Industry-compatible V-mount interface
- Lockable distance and aperture settings
- Continuous aperture adjustment, guaranteed long-term stability
- 100% quality control guarantees reliability and constant quality
- Low maintenance requirements, therefore high system reliability

Applications

- Machine Vision and other imaging applications
- · PCB inspection
- LCD inspection
- OLED inspection
- Solar inspection

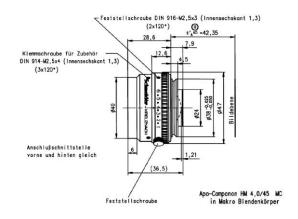
Technical Specifications

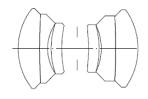
F-number	4.0
Focal length	46.5 mm
Image circle	43.2 mm
Magnification	1:20 to 1:1, optimized for -0.17
Transmission	400 - 700 nm
Interface	V38-Mount
Weight	100 gr.
Filter tread	M37 x 0.75
Code no.	14783





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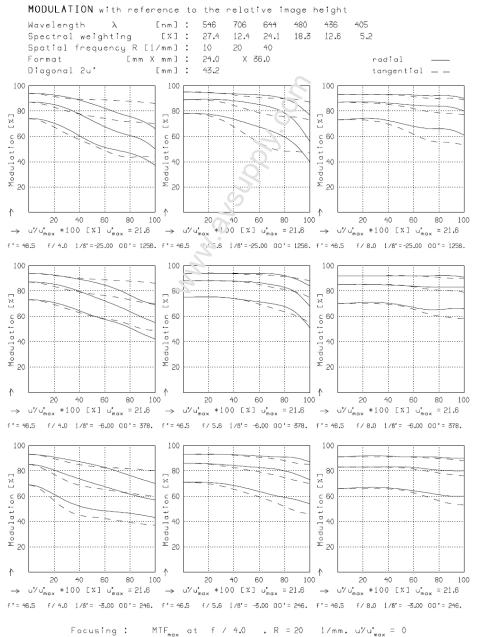




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f' = 46.5 mm $\beta_P = 1.026$ $s_F = -33.1 \text{ mm}$ $s_{EP} = 12.3 \text{ mm}$ $s_F^2 = 35.7 \text{ mm}$ $s_{AP}^2 = -12.1 \text{ mm}$ $s_{AP}^2 = -12.1 \text{ mm}$ $s_{AP}^2 = -12.1 \text{ mm}$

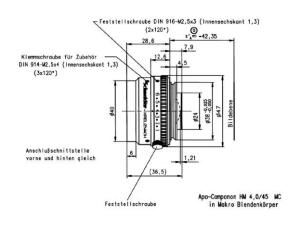
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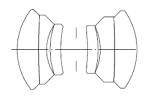






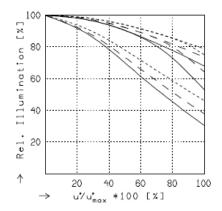
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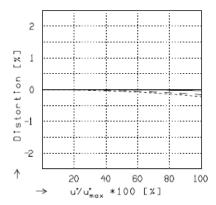


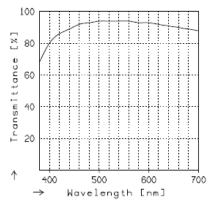


APO-COMPONON 4/45

$$f' = 46.5 \text{ mm}$$
 $6 = 1.026$
 $g_F = -33.1 \text{ mm}$ $g_{EP} = 12.3 \text{ mm}$
 $g_F = 35.7 \text{ mm}$ $g_{AP} = -12.1 \text{ mm}$
 $g_{AP} = -1.8 \text{ mm}$ $g_{AP} = 22.5 \text{ mm}$







RELATIVE ILLUMINATION

The relativillumination is shown for the given focal distances or magnifications.

f / 4.	f	/ 5.6	f	/ 8.0	
B = -0.0400		u _{max} = 21.6		00'=	1256.
- -0.1667		$u_{mox}^* = 21.6$		00'=	378.
b' = -0.3333		$u_{max}^* = 21.6$		00'=	246.

DISTORTION

Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.

TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.