

Macro lens

Componon-S 4.0/80-0022

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.



Apo-Componon 4.0/60

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
- Infinitely adjustable aperture, 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	80.3 mm
Image circle	80.6 mm
Magnification	-0,17
Transmission	400 - 700 nm
Interface	V-Mount
Weight	115 gr.
Option	Optical filter

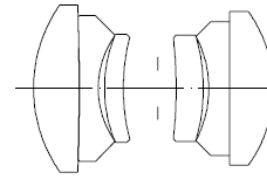
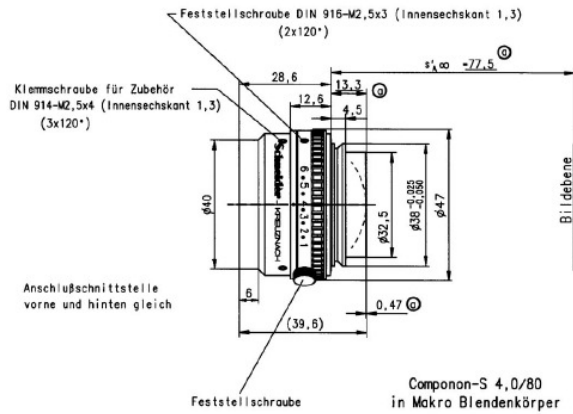
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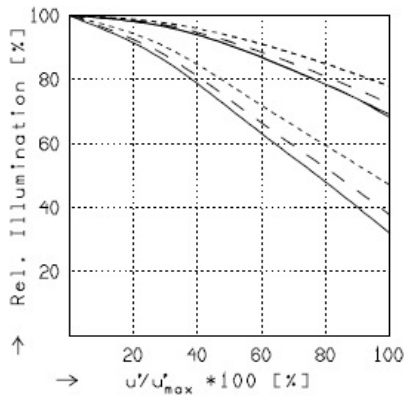
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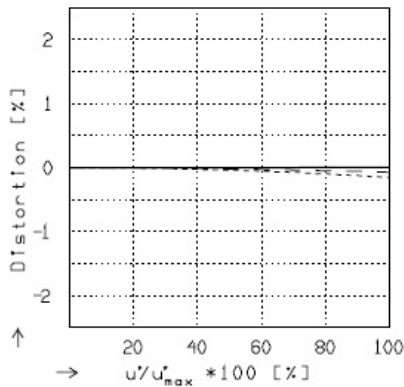
$f' = 80.3 \text{ mm}$	$\beta_p = 1.027$
$s_F = -57.9 \text{ mm}$	$s_{EP} = 20.3 \text{ mm}$
$s_F' = 64.7 \text{ mm}$	$s_{AP}' = -17.9 \text{ mm}$
$HH' = -1.8 \text{ mm}$	$\Sigma d = 36.3 \text{ mm}$



RELATIVE ILLUMINATION

The relative illumination is shown for the given focal distances or magnifications.

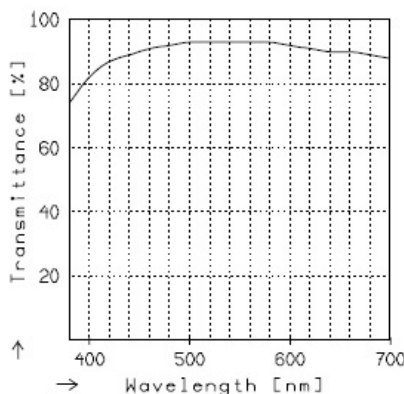
	$f / 4.0$	$f / 8.0$	$f / 11.0$
—	$\beta' = -0.0833$	$u'_{max} = 38.9$	$00' = 1130.$
- -	$\beta' = -0.1667$	$u'_{max} = 38.9$	$00' = 654.$
----	$\beta' = -0.3333$	$u'_{max} = 38.8$	$00' = 427.$



DISTORTION

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

—	$\beta' = -0.0833$	$u'_{max} = 38.8$	$00' = 1130.$
- -	$\beta' = -0.1667$	$u'_{max} = 38.8$	$00' = 654.$
----	$\beta' = -0.3333$	$u'_{max} = 38.8$	$00' = 427.$



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.