

# Macro lens

## Componon-S 5.6/100

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
- 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

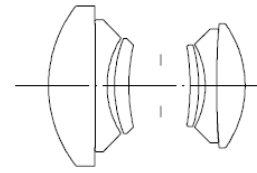
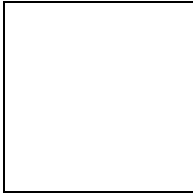
F-number	5.6
Focal length	102.3 mm
Image circle	108 mm
Magnification	-0,17
Transmission	400 - 700 nm
Interface	V-Mount
Weight	140 gr.
Option	Optical filter

### Contact

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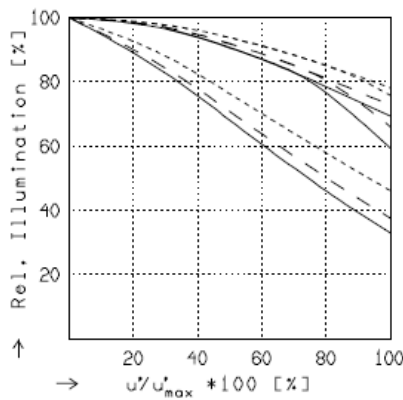
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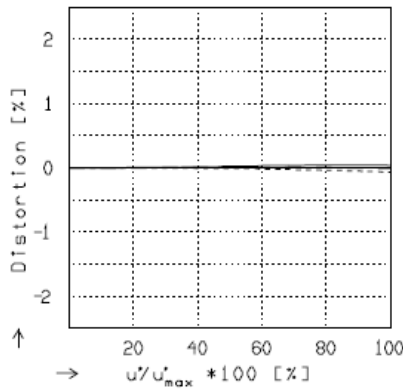
$f'$ = 102.3 mm	$\beta_p'$ = 0.988
$s_f$ = -81.8 mm	$s_{EP}$ = 21.8 mm
$s_f'$ = 84.9 mm	$s_{AP}'$ = -16.2 mm
$HH'$ = -2.4 mm	$\Sigma d$ = 35.6 mm



### RELATIVE ILLUMINATION

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

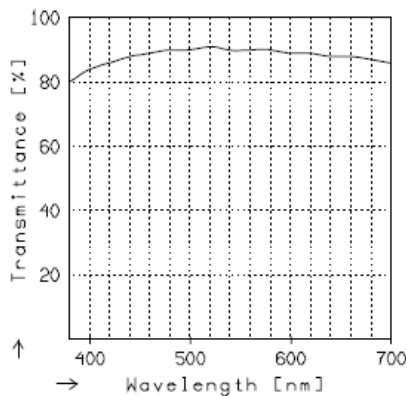
$f / 5.6$	$f / 8.0$	$f / 11.0$
— $\beta' = -0.0833$	$u_{max}' = 48.4$	$00' = 1439.$
- - $\beta' = -0.1667$	$u_{max}' = 48.4$	$00' = 833.$
... $\beta' = -0.3333$	$u_{max}' = 48.4$	$00' = 543.$



### DISTORTION

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

— $\beta' = -0.0833$	$u_{max}' = 48.4$	$00' = 1439.$
- - $\beta' = -0.1667$	$u_{max}' = 48.4$	$00' = 833.$
... $\beta' = -0.3333$	$u_{max}' = 48.4$	$00' = 543.$



### TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.