

V-Mount Macro Lens

Apo-Componon 4.5/90-0025

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

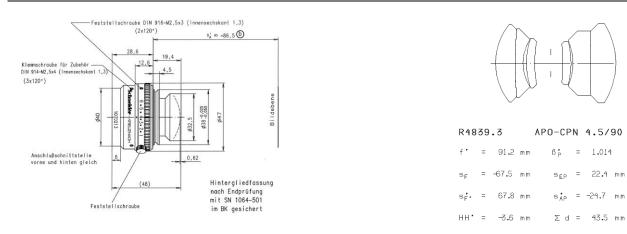
- Machine Vision and other imaging applications
- PCB inspection
- LCD inspection
- OLED inspection
- Solar inspection

Technical Specifications

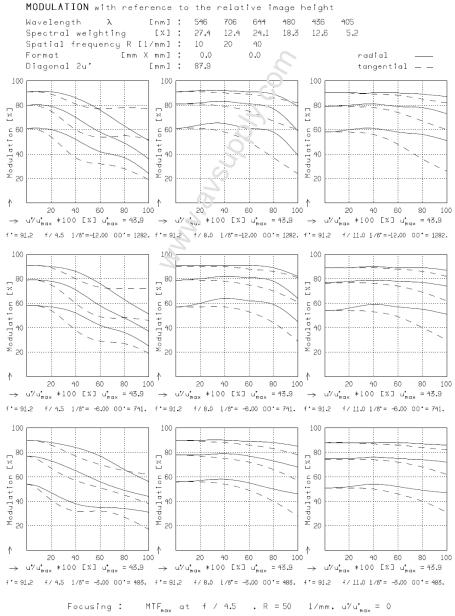
reennear opeennearene	
F-number	4.5
Focal length	91.2 mm
Image circle	87.8 mm
Magnification	1:20 to 1:1, optimized for -0.17
Transmission	400 - 700 nm
Interface	V38-Mount
Weight	135 gr.
Filter tread	M37 x 0.75
Code no.	1070213



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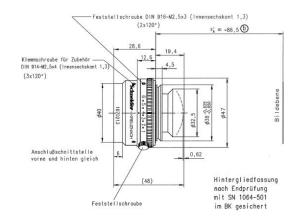
R4839.3 APO-CPN 4.5/90

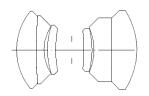


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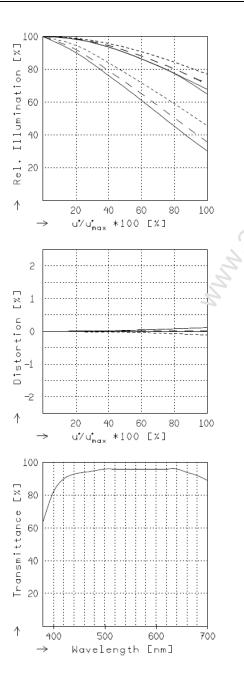


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R4839.3			APO-CPN		4.5/90		
f'	=	91,2	mm	βp	=	1.014	
SF	=	-67.5	mm	s _{EP}	=	22.4	mm
s ; ,	=	67.8	mm	sip	=	-24.7	mm
нн•	=	-3,6	mm	Σd	=	43,5	mm



RELATIVE ILLUMINATION

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

f 91. 5	f	/ 8.0	f	/ 11.0	
β' = -0.0833 β' = -0.1667 β' = -0.3330		u [*] _{max} = 44.0 u [*] _{max} = 43.9 u [*] _{max} = 43.9		00'=	741.

DISTORTION

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

 ß'= −0.0833	u , = 43.9	00'=	1282.
 ß'= −0.1667	u, = 43.9	00'=	741.
 ß⁺= −0.3330	u [*] _{max} = 43.9	00*=	483.

TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

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