

Line scan lens

Makro-Symmar 5.6/120-1.0x

Wherever complex web and surface inspections are concerned, the line scan image capture method is used in most cases. Due to the principle used, this method requires a very careful choice of camera and an optimally adapted lens in order to achieve maximum system performance. It is essential to observe important application-specific and physical parameters: the size of the CCD or CMOS imaging sensor in the camera defines the minimum required image circle of the lens.



Makro-Symmar 5.6/120

Key Features

- Very high optical image quality in the large sensor range
- Vibration-insensitive for stable optical performance
- Reverse position of the lens possible to enlarge the magnification range
- Lockable distance and aperture settings
- Use in best azimuth position possible
- Industry-compatible V-mount interface
- 100% quality control guarantees reliability and constant quality
- Low maintenance requirements, therefore high system
 availability

Applications

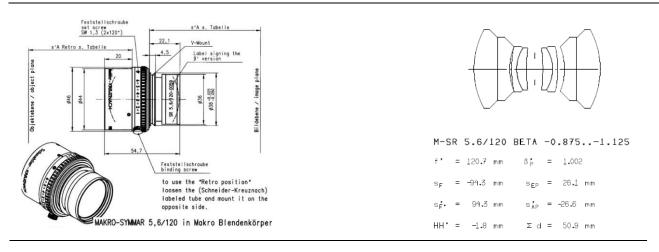
- Web and surface inspections
- Quality control
- FPD inspection
- PCB inspection
- OLED inspection
- Line scan applications

Technical Specifications

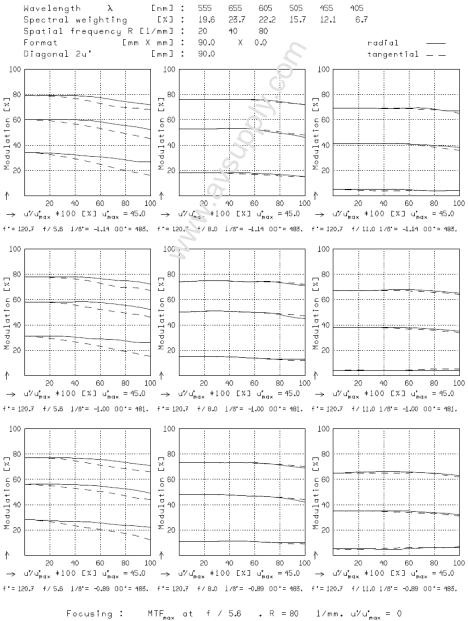
F-number	5.6
Focal length	120.7 mm
Image circle	86 mm
Magnification	-1.0
Transmission	400 - 1000 nm
Interface	V-Mount
Weight	170 gr.
Option	Optical filter

ALDIOVIDEOSUPPLY Schneider KREUZNACH

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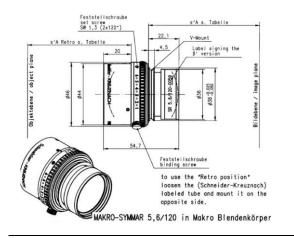
M-SR 5.6/120 BETA -0.875..-1.125 MODULATION with reference to the relative image height

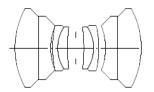


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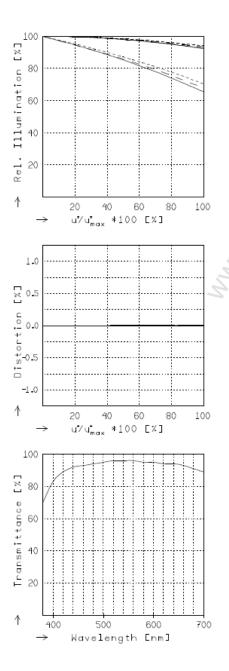


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M-S	R	5.6/	120	BETA	-0	.875	1.125
f'	=	120.7	mm	βp	=	1.002	
SF	=	-94.3	mm	SEP	=	26.1	mm
s ŕ .	=	94.3	mm	sip	=	-26,6	mm
нн≁	=	-1.8	mm	Σd	=	50.9	mm



RELATIVE ILLUMINATION

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

f / 5,6	f	/ 8.0	f	/ 11.0	
		u [*] _{max} = 45.0 u [*] _{max} = 45.0 u [*] _{max} = 45.0		00'=	481.

DISTORTION

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

 ß'= −0,8750	u _{max} = 45.0	00'= 483.
 ß'= −1.0000	u _{max} = 45.0	00'= 481.
 ß'= −1.1250	u _{max} = 45.0	00'= 483.

TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

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