

Line scan lens

Micro-Symmar 2.8/50-0002

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.



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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	2.8
Focal length	50.8 mm
Image circle	62 mm
Magnification	-3.5
Transmission	400 - 1000 nm
Interface	V-Mount
Weight	370 gr.
Option	Optical filter

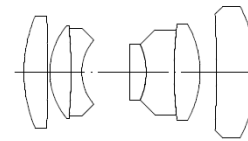
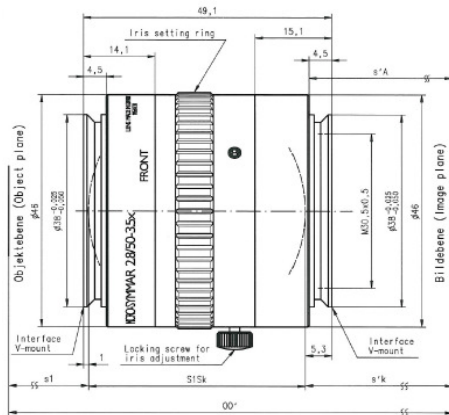
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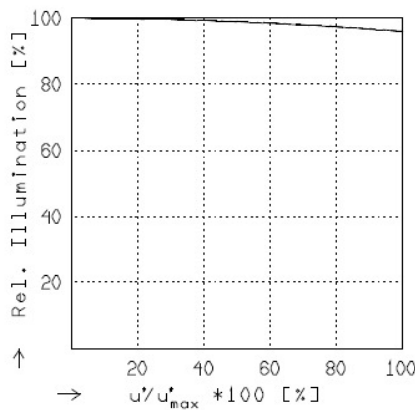
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MICRO-SYMMAR 2.8/50MM

$f' = 50.8 \text{ mm}$	$\beta_p = 0.817$
$s_F = -18.7 \text{ mm}$	$s_{EP} = 43.5 \text{ mm}$
$s_F' = 7.5 \text{ mm}$	$s_{AP}' = -34.0 \text{ mm}$
$HH' = -32.6 \text{ mm}$	$\Sigma d = 42.8 \text{ mm}$

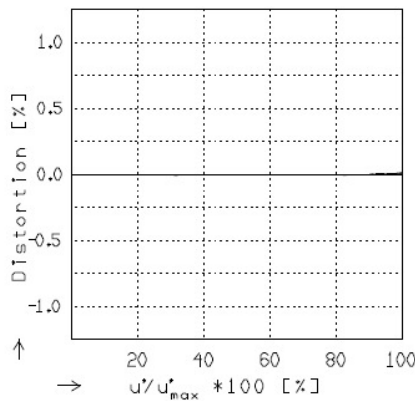


RELATIVE ILLUMINATION

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

$$f / 2.3$$

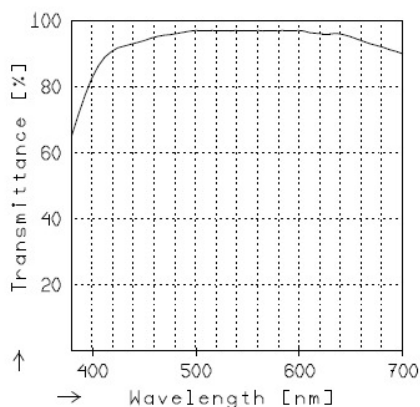
— $\beta' = -3.5000$	$u_{max}' = 31.0$	$00' = 261.$
- - $\beta' = -3.5000$	$u_{max}' = 31.0$	$00' = 261.$
---- $\beta' = -3.5000$	$u_{max}' = 31.0$	$00' = 261.$



DISTORTION

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

— $\beta' = -3.5000$	$u_{max}' = 31.0$	$00' = 261.$
- - $\beta' = -3.5000$	$u_{max}' = 31.0$	$00' = 261.$
---- $\beta' = -3.5000$	$u_{max}' = 31.0$	$00' = 261.$



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.