

Anti-Shading Lens

Apo-Xenoplan 2.0/24-0005

These high-resolution, high-speed lenses are optimized for the use of 4 and 8 megapixel 1.3" sensors with micro-lenses on the sensor surface. The special optical design prevents unwanted shading on the sensor. This makes it much easier to combine a homogeneous luminance distribution with high imaging performance. The image circles are very large for C-Mount lenses. With a 1.3" sensor, the relatively short focal lengths allow a large coverage range at a short working distance. The lenses are also broadband coated and can be used in the visible range 400 - 700 nm or the near infrared range 700 - 1000 nm.



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Key Features

- Anti-shading for sensor sizes up to 1.3"(image circle 24 mm)
- Designed for 4 and 8 Mpix sensors with micro-lenses
- High resolution optics 400 700 nm (VIS) / 700 1000 nm (NIR)
- Very high MTF across the entire sensor
- Robust mechanics for industrial environment
- · Compact and low weight
- · Focus and iris setting lockable

Applications

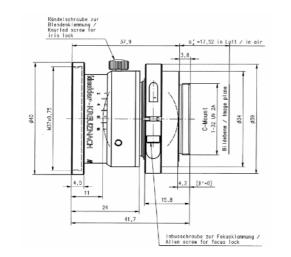
- Machine Vision and other imaging applications
- 3D measurement
- Traffic
- Etc.

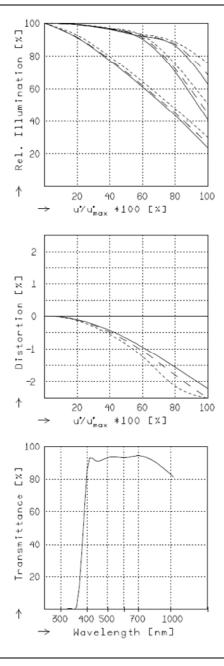
Technical Specifications

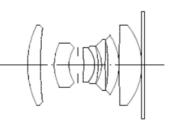
F-number	2.0
Focal length	24.5 mm
Image circle	24 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	80 gr.
Filter thread	M37 x 0.75
Code no.	1071371

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Schneider

APO-XENOPLAN 2/24

f	=	24.5 mm	ßP	=	1,937
SF	=	0 . 9 m.m	SEP	=	13.5 mm
sŕ∙	=	17.3 mm	s	=	-30.1 mm
нн′	=	-5.5 mm	Σd	=	27.0 mm

RELATIVE ILLUMINATION

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

f	/	2.1	f	/ 2.8	f	/ 4.0	
	ß'	= -0.0200		u _{max} = 11.7		00'=	1269.
	ß'	-0.0500		u _{max} = 11.7			

u_{max} = 11.6

00'= 291.

DISTORTION

----- ß' = −0.1000

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

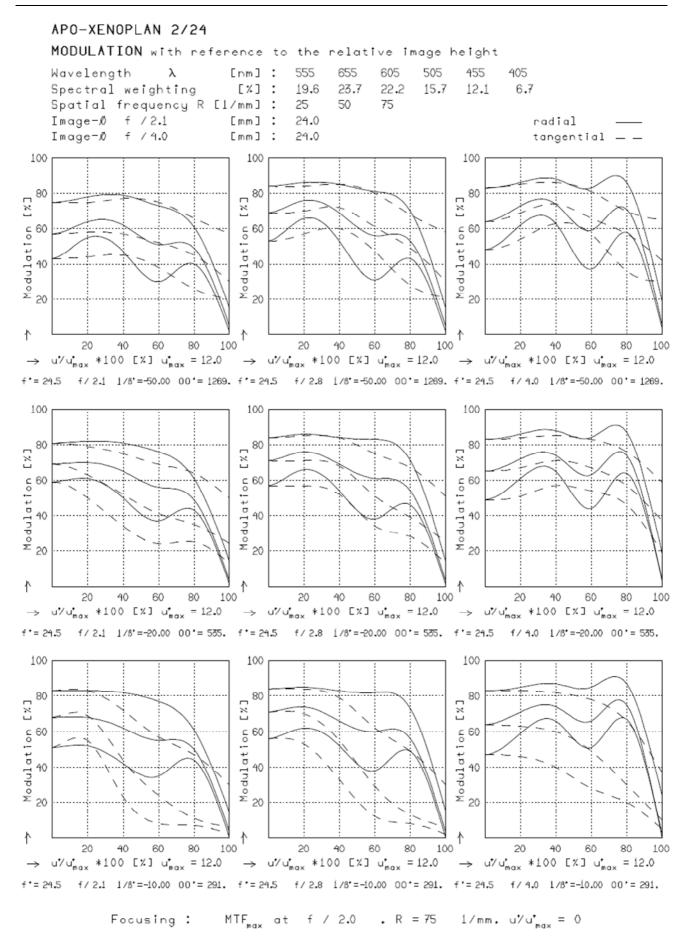
 ß* =	-0.0200	umax	= 11.6	00.=	1269.
 ß' =	-0.0500	u,*	= 11.6	00'=	535.
 ß* =	-0.1000	u _{max}	= 11.6	00'=	291.

TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

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