Anti-Shading lenses

Apo-Xenoplan 2.0/24

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.

Apo-Xenoplan 2.0/24

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.
Option	Optical filter

Contact

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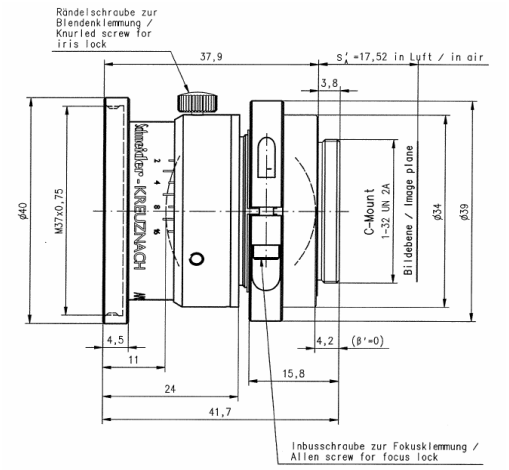
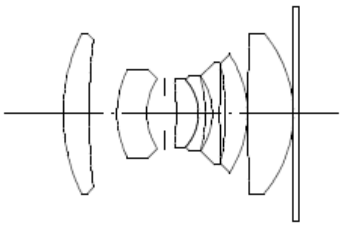
Apo-Xenoplan 2.0/24





APO-XENOPLAN 2/24

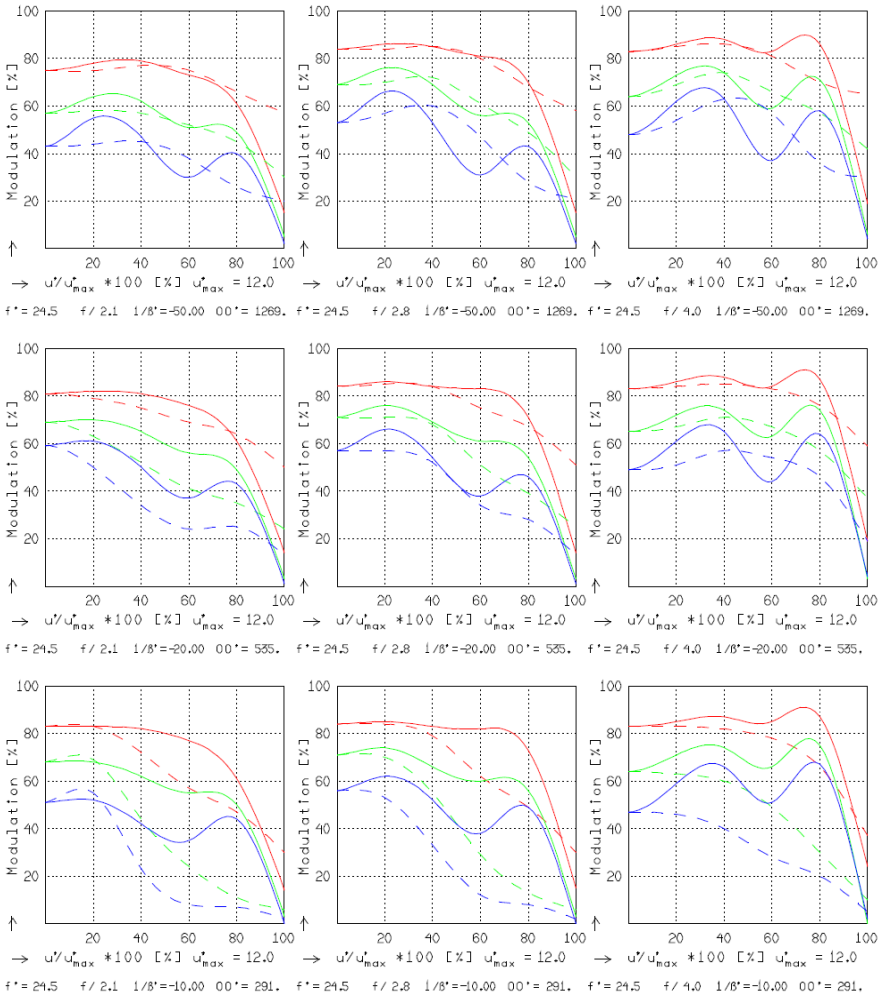
f'	=	24.5 mm	β'_p	=	1.937
s_F	=	0.9 mm	s_{EP}	=	13.5 mm
$s'_{F'}$	=	17.3 mm	s'_{AP}	=	-30.1 mm
HH'	=	-5.5 mm	Σ d	=	27.0 mm

APO-XENOPLAN 2/24

MODULATION with reference to the relative image height

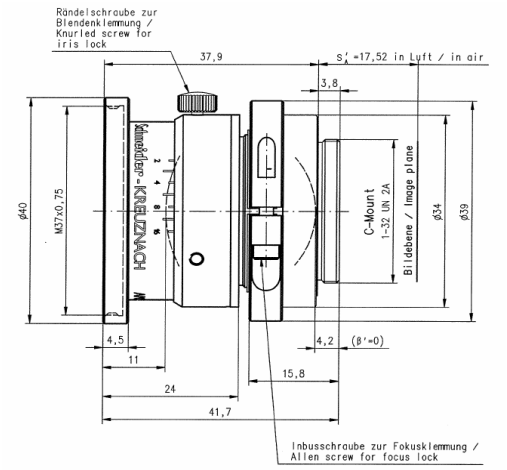
Wavelength	λ	[nm] :	405	455	505	555	605	655
Spectral weighting		[%] :	6.7	12.1	15.7	19.6	22.2	23.7
Spatial frequency R		[1/mm] :	25	50	75			
Image-Ø f /2.1		[mm] :	24.0					
Image-Ø f /4.0		[mm] :	24.0					

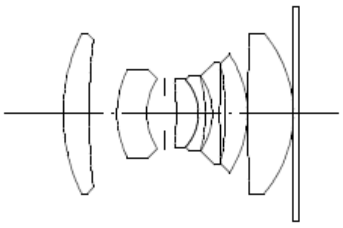
radial ——
tangential — —



Focusing : MTF_{max} at f / 2.0 , R = 20 l/mm. u'/u'_{max} = 0

Apo-Xenoplan 2.0/24





APO-XENOPLAN 2/24

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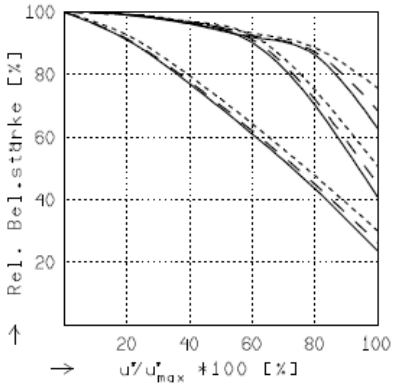
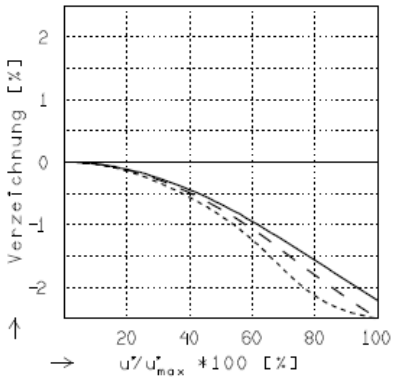


RELATIVE BELEUCHTUNGSSTÄRKE

Die relative Beleuchtungsstärke ist für die angegebenen Brennweiten oder Abbildungsmaßstäbe für die folgenden Blendenzahlen dargestellt.
k = 2.1 k = 2.8 k = 4.0

—— ß' = -0.0200	u'_{max} = 11.7	00' = 1269.	
— — ß' = -0.0500	u'_{max} = 11.7	00' = 535.	
----- ß' = -0.1000	u'_{max} = 11.6	00' = 291.	



VERZEICHNUNG

Die Verzeichnung ist für die angegebenen Brennweiten oder Abbildungsmaßstäbe dargestellt.
Pos. Werte : Kissenförm. Verzeichnung
Neg. Werte : Tonnenförm. Verzeichnung

—— ß' = -0.0200	u'_{max} = 11.6	00' = 1269.	
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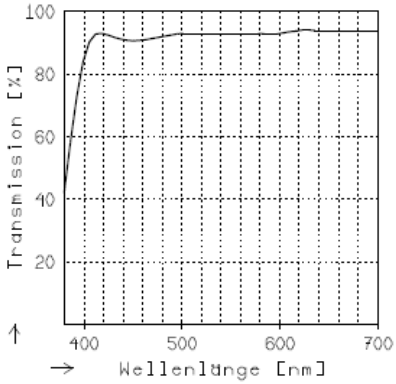

TRANSMISSION

Die relative spektrale Transmission ist als Funktion der Wellenlänge dargestellt.