

Anti-Shading Lens

Apo-Xenoplan 2.0/28-0004

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 2.0/20

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	27.6 mm
Image circle	24 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	215 gr.
Filter tread	M39 x 0.5
Code no.	1054732

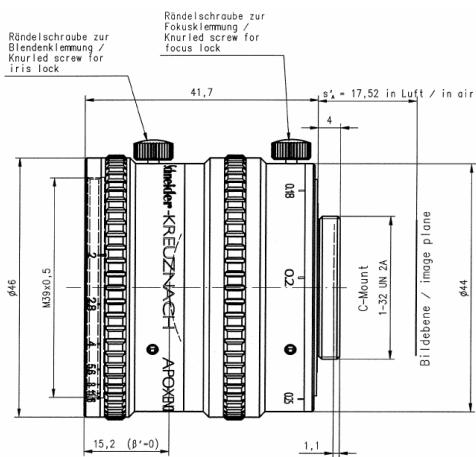
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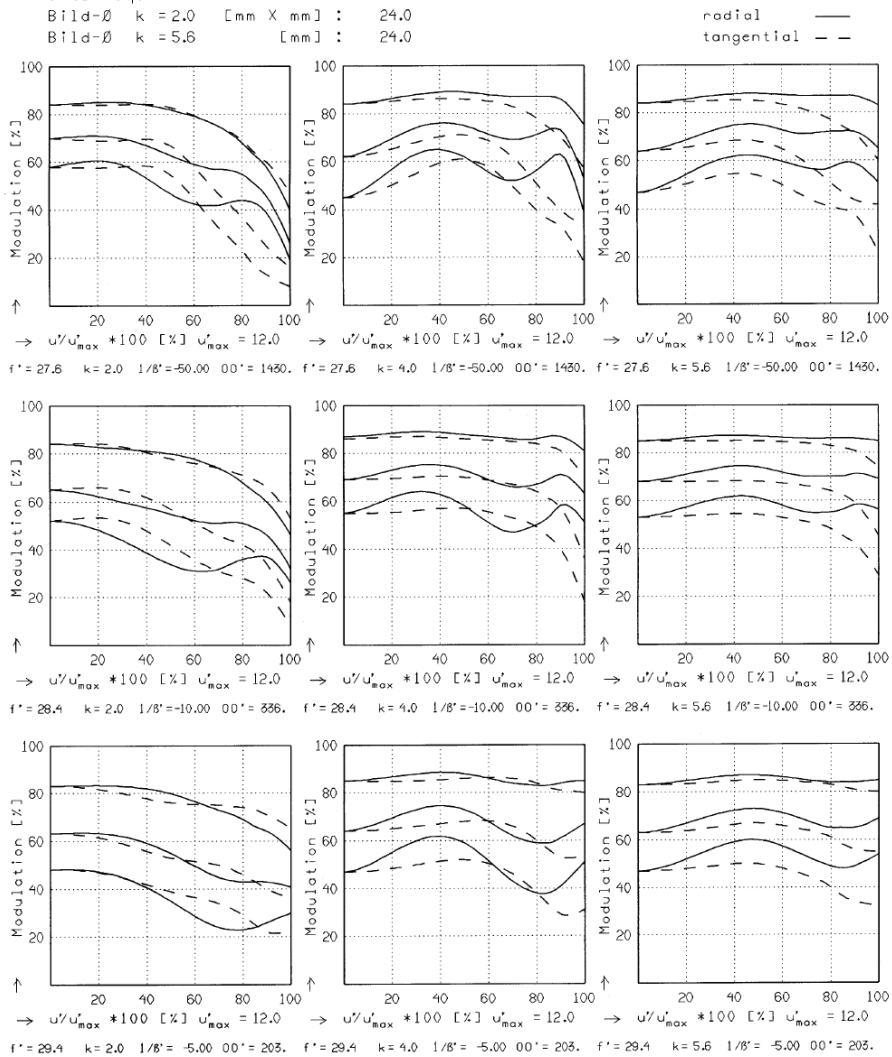


R4917.0	APO-XNP 2/28
$f' = 27.6 \text{ mm}$	$\beta_p' = 1.553$
$s_F = -5.5 \text{ mm}$	$s_{EP} = 12.2 \text{ mm}$
$s_{F'} = -0.3 \text{ mm}$	$s_{AP} = -43.2 \text{ mm}$
$HH' = -6.0 \text{ mm}$	$\Sigma d = 44.0 \text{ mm}$

R4917.0 APO-XNP 2/28

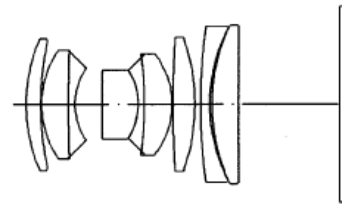
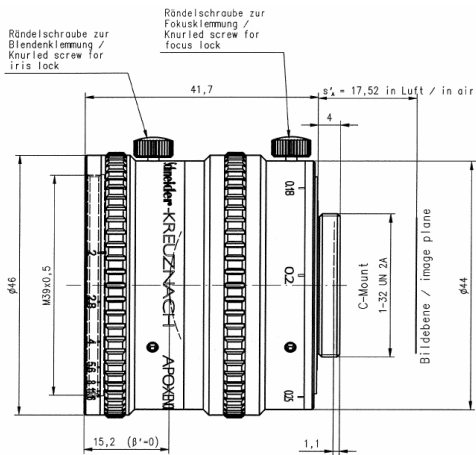
MODULATION als Funktion der relativen Bildgröße

Wellenlänge λ [nm] :	575	675	625	525	475	425
Spektrale Gewichtung [%] :	19.2	17.8	18.6	18.4	15.3	10.6
Ortsfrequenz R [1/mm] :	25	50	75			
Bild- \emptyset $k = 2.0$ [mm X mm] :	24.0					
Bild- \emptyset $k = 5.6$ [mm] :	24.0					

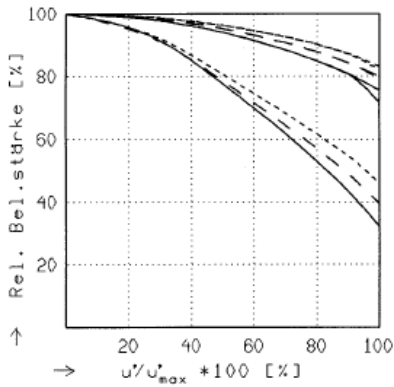


Fokussierung MTF_{max} bei $k = 2.0$. $R = 80$ 1/mm. $u'/u'_{max} = 0$

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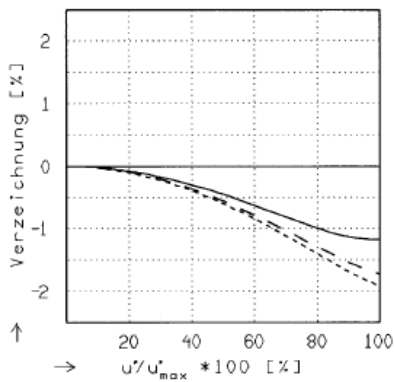


RELATIVE BELEUCHTUNGSSTÄRKE

Die relative Beleuchtungsstärke ist für die angegebenen Brennweiten oder Abbildungsmaßstäbe für die folgenden Blendenzahlen dargestellt.

$k = 2.0$ $k = 4.0$ $k = 5.6$

— $\beta' = -0.0200$	$u'_{max} = 11.9$	$00' = 1430.$
- - $\beta' = -0.1000$	$u'_{max} = 11.8$	$00' = 336.$
..... $\beta' = -0.2000$	$u'_{max} = 11.8$	$00' = 203.$

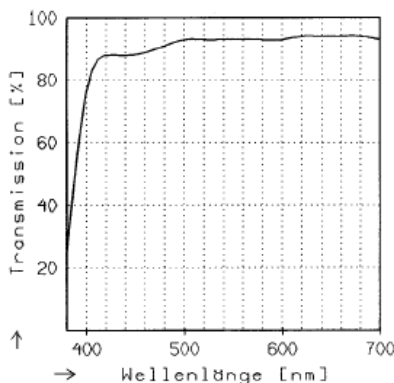


VERZEICHNUNG

Die Verzeichnung ist für die angegebenen Brennweiten oder Abbildungsmaßstäbe dargestellt.

Pos. Werte : Kissenförm. Verzeichnung
Neg. Werte : Tonnenförm. Verzeichnung

— $\beta' = -0.0200$	$u'_{max} = 11.8$	$00' = 1430.$
- - $\beta' = -0.1000$	$u'_{max} = 11.8$	$00' = 336.$
..... $\beta' = -0.2000$	$u'_{max} = 11.8$	$00' = 203.$



TRANSMISSION

Die relative spektrale Transmission ist als Funktion der Wellenlänge dargestellt.