

Apo-Xenoplan 2.8/50

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

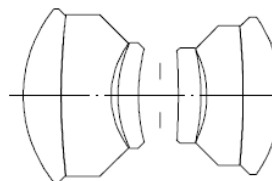
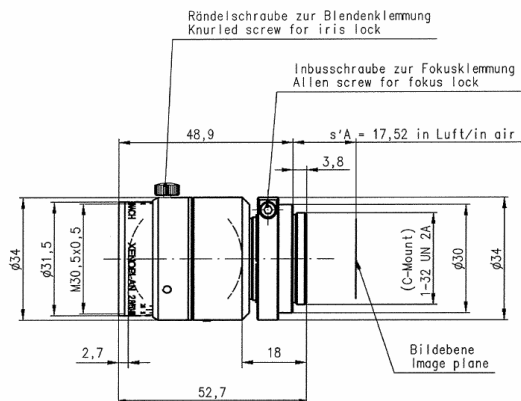
F-number	2.8
Focal length	50.2 mm
Image circle	24 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	135 gr.
Option	Optical filter

Contact

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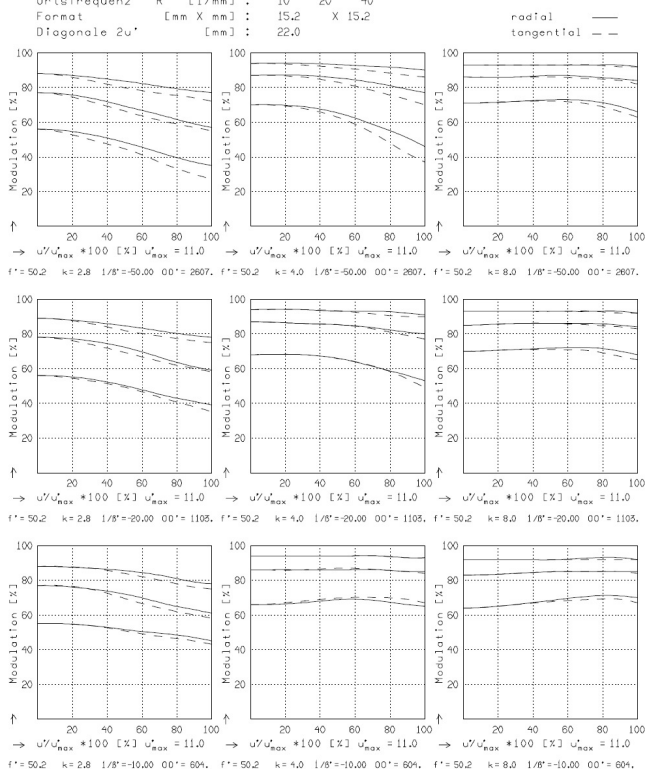
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$f^* = 50.2 \text{ mm}$ $\beta_p = 0.945$
 $s_F = -33.5 \text{ mm}$ $s_{EP} = 19.6 \text{ mm}$
 $s_F^* = 31.7 \text{ mm}$ $s_{AP} = -15.7 \text{ mm}$
 $HH' = -3.1 \text{ mm}$ $\Sigma d = 32.0 \text{ mm}$

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MODULATION als Funktion der relativen Bildgröße

Wellenlänge λ [nm]	555	655	605	505	455	405
Spektrale Gewichtung [%]	19.6	23.7	22.2	15.7	12.1	6.7
Ortsfrequenz R [l/mm]	10	20	40			
Format [mm X mm]	15.2	X 15.2				
Diagonale $2u'$ [mm]	22.0					



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