

Anti-Shading Lens

Apo-Xenoplan 2.0/35-2001

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	35.1 mm
Image circle	24 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	160 gr.
Filter thread	M37 x 0.75
Code no.	1006219

Contact

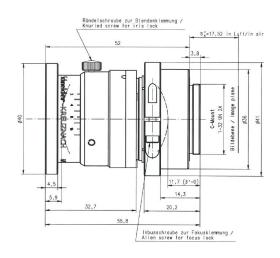
Pyramid Imaging 945 E. 11th Ave Tampa, FL 33605 sales@pyramidimaging.com Tel: +1 (813) 984-0125 Fax: +1 (866) 874-9521

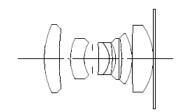
https://pyramidimaging.com





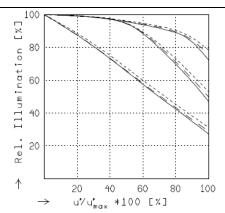
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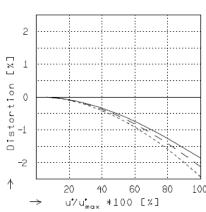
$$f'' = 35.1 \text{ mm}$$
 $\beta_P' = 1.991$
 $s_F = 1.6 \text{ mm}$ $s_{EP} = 19.2 \text{ mm}$
 $s_F^* = 24.7 \text{ mm}$ $s_{AP}^* = -45.2 \text{ mm}$
 $HH'' = -8.1 \text{ mm}$ $\Sigma d = 39.0 \text{ mm}$



RELATIVE ILLUMINATION

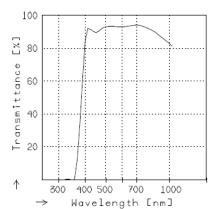
The relativ illumination is shown for the given focal distances or magnifications.

f	/ 2.1	f	/ 2.8	f	/ 4.0	
	ß' = -0.0200		u _{max} = 14.4			
	B' = -0.0500		u _{max} = 14.3			
	B' = -0.0900		u _{max} = 14.3		00'=	455.



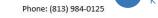
DISTORTION

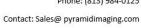
Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.



TRANSMITTANCE

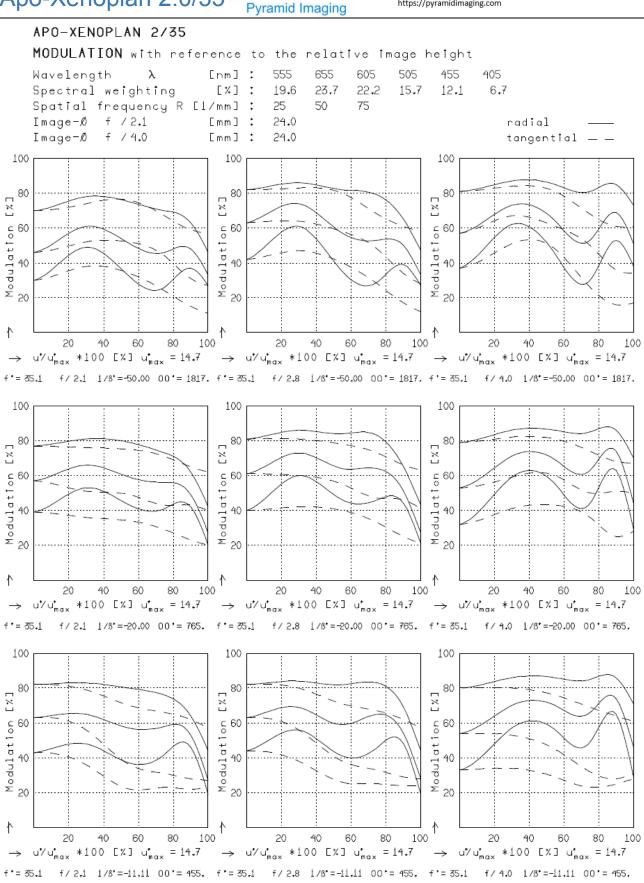
Relative spectral transmittance is shown with reference to wavelength.





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f / 2.0

R = 75

MTF_{max} at

Focusing :

1/mm, $u^{*}u^{*}_{max} = 0$