

**Xenoplan 1.9/35**

In accordance with the sensitivity of modern 2 / 3" CCD and CMOS sensors, the 3 megapixel lenses are corrected and broadband-coated for the spectral range of 400 – 1000 nm ( VIS + NIR ). Even under production and / or extreme conditions, the robust mechanical design with lockable focus and iris setting mechanism guarantees reliable continuous use in which the set optical parameters remain in place.



Xenoplan 1.9/35

**Key Features**

- High-resolution optics
- Highest optical imaging performance even with smallest pixel sizes
- Broadband coating (400 - 1000 nm)
- Compact and low weight
- Vibration insensitivity for stable imaging performance
- Focus and iris setting lockable

**Applications**

- Machine Vision and other imaging applications
- 3D measurement
- Traffic
- Medical
- Robot vision
- Food processing

**Technical Specifications**

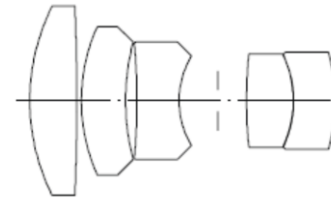
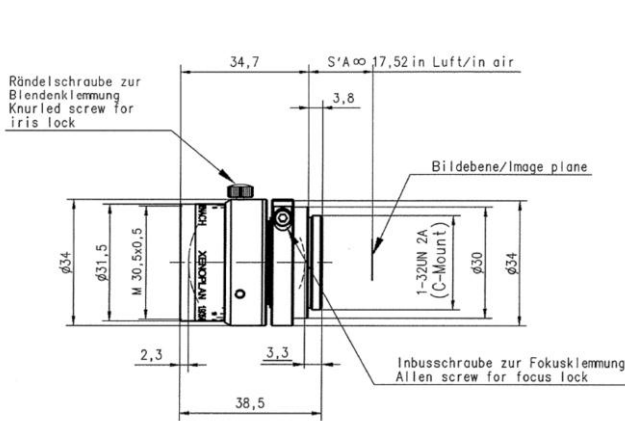
F-number	1.9
Focal length	34.9 mm
Image circle	11 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	92 gr.
Filter Thread	M30.5 x 0.5
Order No.	1001960

**Contact**

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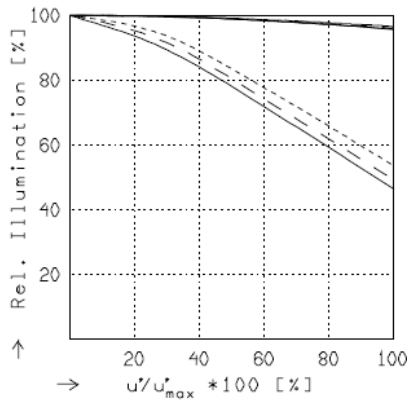
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### XENOPLAN 1.9/35MM

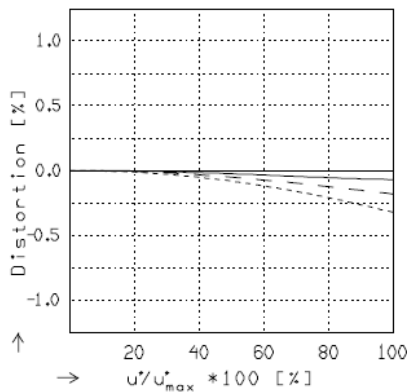
$f' = 34,9$ mm	$\beta_p' = 0,879$
$s_F = -6,5$ mm	$s_{EP} = 33,3$ mm
$s_F' = 17,0$ mm	$s_{AP}' = -13,7$ mm
$HH' = -13,8$ mm	$\Sigma d = 32,6$ mm



### RELATIVE ILLUMINATION

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

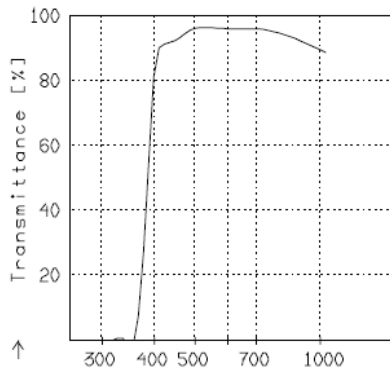
$f / 2.0$	$f / 4.0$	$f / 8.0$
— $\beta' = -0,0200$	$u'_{max} = 5,5$	$00' = 1803,$
- - $\beta' = -0,0500$	$u'_{max} = 5,5$	$00' = 756,$
- - - $\beta' = -0,1000$	$u'_{max} = 5,5$	$00' = 409,$



### DISTORTION

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

— $\beta' = -0,0200$	$u'_{max} = 5,5$	$00' = 1803,$
- - $\beta' = -0,0500$	$u'_{max} = 5,5$	$00' = 756,$
- - - $\beta' = -0,1000$	$u'_{max} = 5,5$	$00' = 409,$



### TRANSMITTANCE

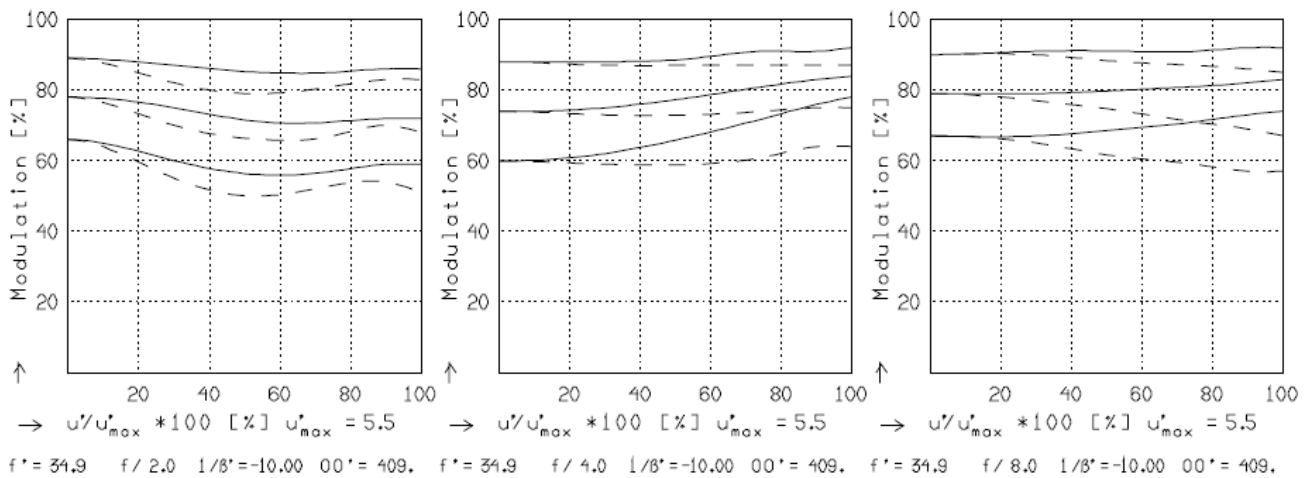
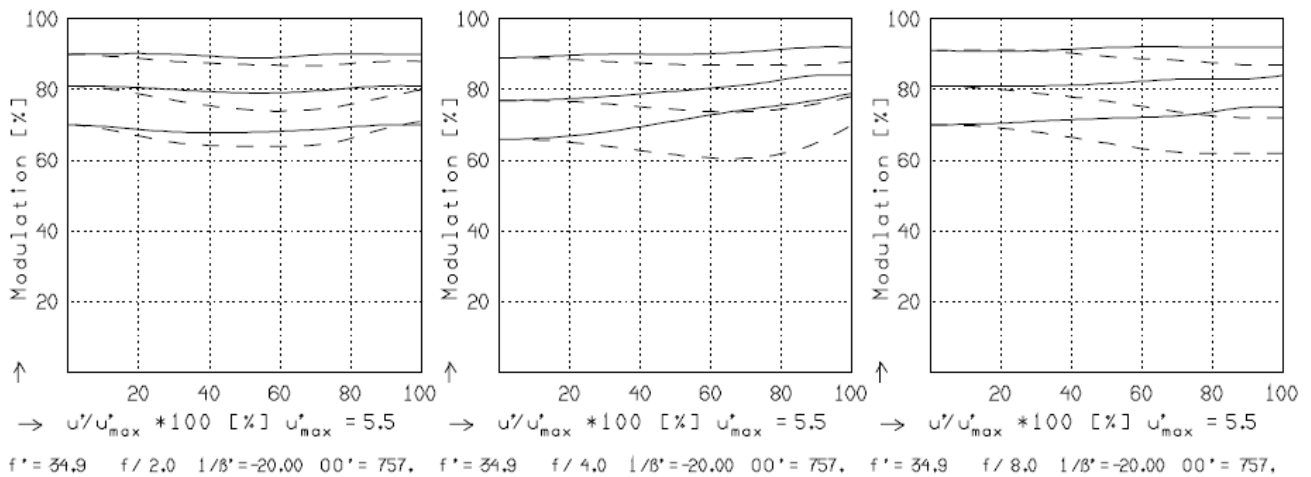
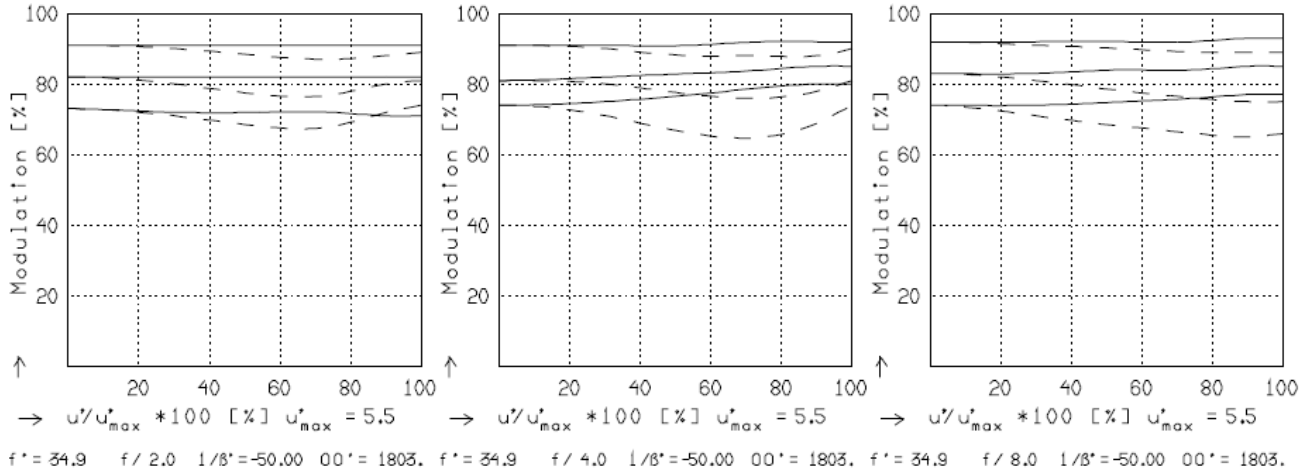
Relative spectral transmittance is shown with reference to wavelength.

### XENOPLAN 1.9/35MM

MODULATION with reference to the relative image height

Wavelength $\lambda$	[nm]	555	655	605	505	455	405
Spectral weighting	[%]	19.6	23.7	22.2	15.7	12.1	6.7
Spatial frequency R	[1/mm]	10	20	30			
Format	[mm X mm]	6.6	X	8.8			
Diagonal $2u'$	[mm]	11.0					

radial —  
tangential - -



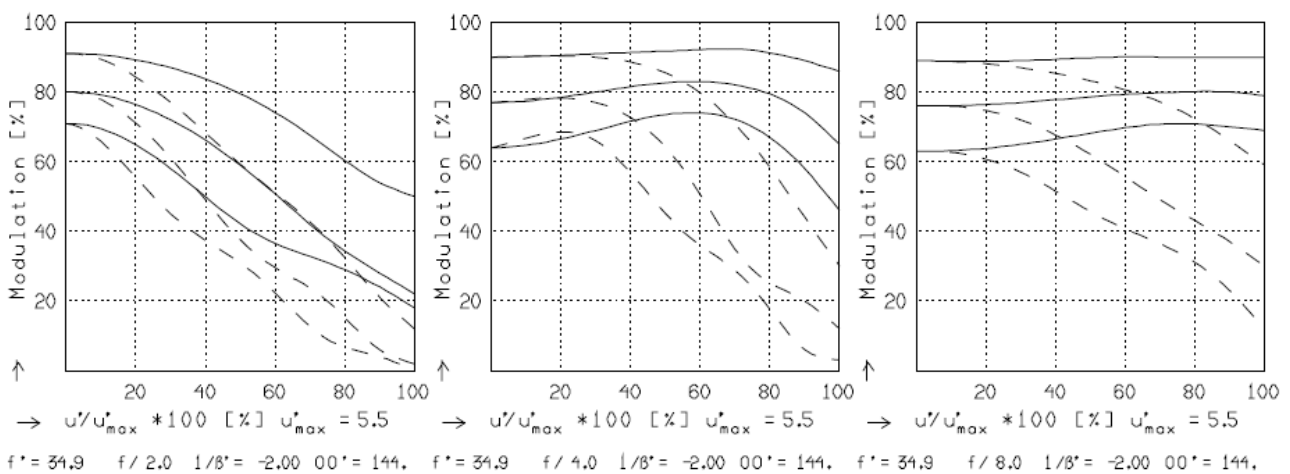
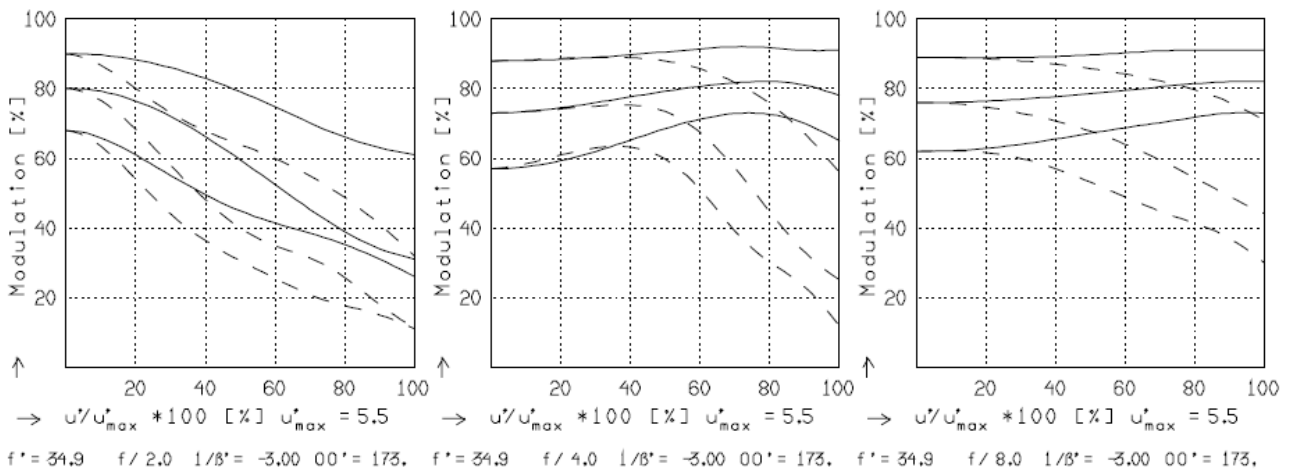
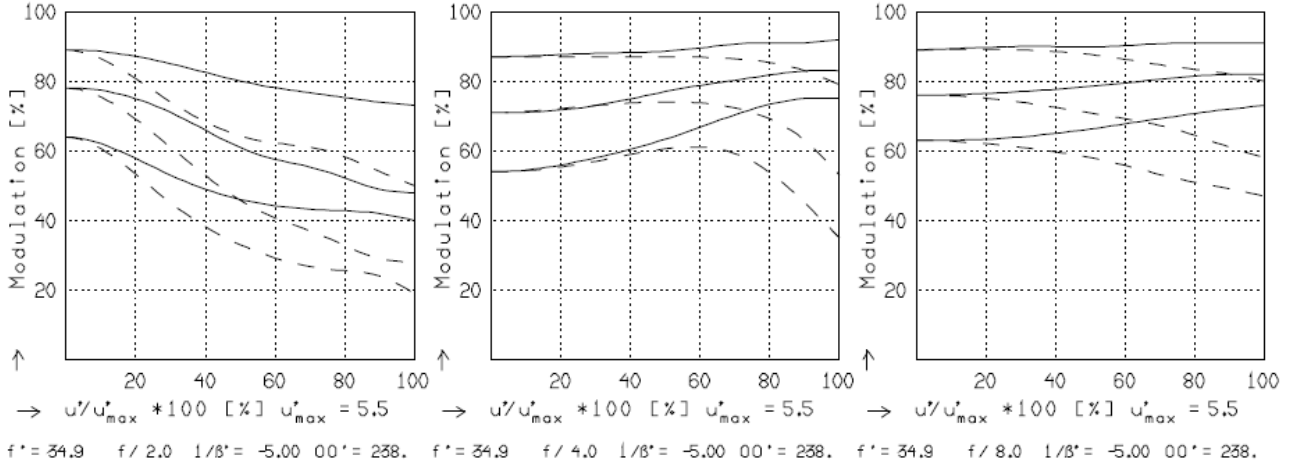
Focusing :  $MTF_{max}$  at  $f / 1.9$  ,  $R = 30$  1/mm,  $u'/u'_{max} = 0$

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radial —  
tangential - -



Focusing :     $MTF_{max}$  at  $f/1.9$  ,  $R = 30$  1/mm,  $u'/u'_{max} = 0$