

# 3 Mega Pixel lens

## Xenoplan 1.4/17

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.



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### 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     | 1.4            |
| Focal length | 17.6 mm        |
| Image circle | 11 mm          |
| Transmission | 400 - 1000 nm  |
| Interface    | C-Mount        |
| Weight       | 85 gr.         |
| Option       | Optical filter |

### Contact

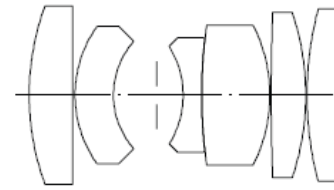
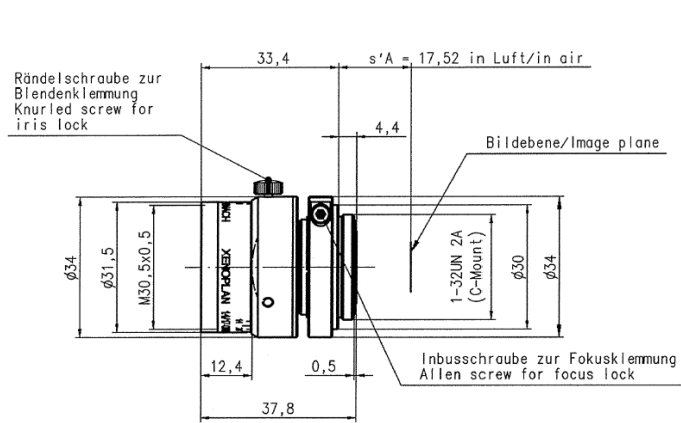
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# Pyramid Imaging



## XENOPLAN 1.4/17MM

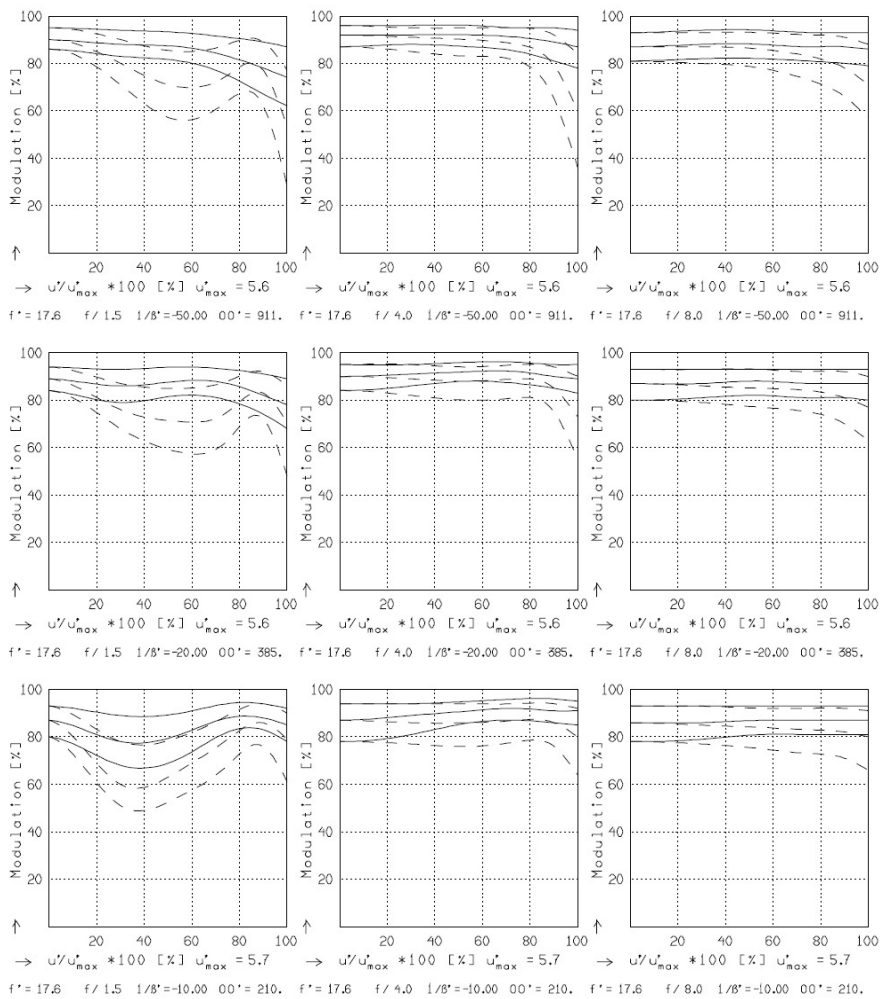
|         |           |            |            |
|---------|-----------|------------|------------|
| $f^*$   | = 17,6 mm | $\beta_p$  | = 2,975    |
| $s_F$   | = 6,1 mm  | $s_{EP}$   | = 12,0 mm  |
| $s_F^*$ | = 13,2 mm | $s_{AP}$   | = -39,1 mm |
| $HH^*$  | = -3,2 mm | $\Sigma d$ | = 24,9 mm  |

### XENOPLAN 1.4/17MM

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  $f / 1.4$  ,  $R = 30$  1/mm.  $u'/u'_{max} = 0$

