

High End 3D Lens

Cinegon 1.8/4.8 – High End 3D

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
- Stabilized optical axis
- Highest optical imaging performance even with smallest pixel sizes
- Broadband coating (400 - 1000 nm)
- Compact and low weight
- Vibration insensitivity for stable imaging performance, secured lens and ring
- Focus and iris setting lockable

Applications

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

Technical Specifications

| | |
|--------------|----------------|
| F-number | 1.8 |
| Focal length | 5.0 mm |
| Image circle | 11 mm |
| Transmission | 400 - 1000 nm |
| Interface | C-Mount |
| Weight | 90 gr. |
| Option | Optical filter |

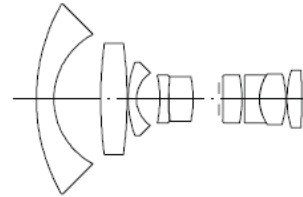
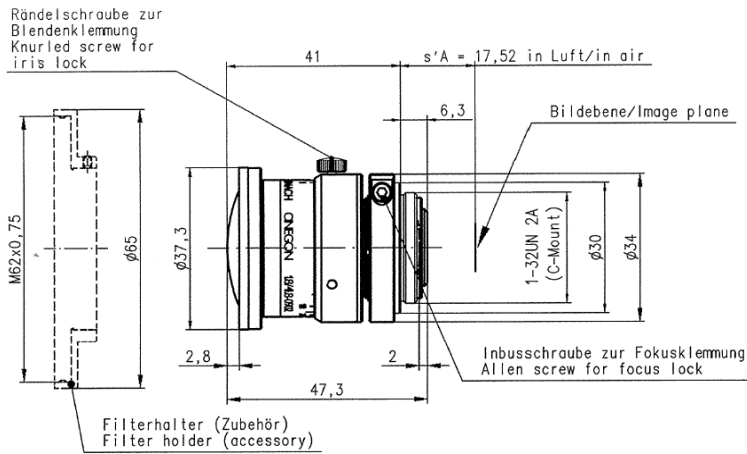
Contact

Jos. Schneider Optische Werke GmbH
 Ringstraße 132
 55543 Bad Kreuznach
 Germany
 Phone +49 671 601-387
 Fax +49 671 601-286
www.schneiderkreuznach.com/industrialoptics
industrie@schneiderkreuznach.com

Schneider Asia Pacific Ltd.
 20/F Central Tower, 28 Queen's Road
 Central, Hong Kong
 China
 Phone +852 8302 0301
 Fax +852 8302 4722
www.schneider-asiapacific.com
info@schneider-asiapacific.com

Schneider Optics Inc.
 285 Oser Ave.
 Hauppauge, NY 11788
 USA
 Phone +1 631 761-5000
 Fax +1 631 761-5090
www.schneideroptics.com/industrial
industrial@schneideroptics.com

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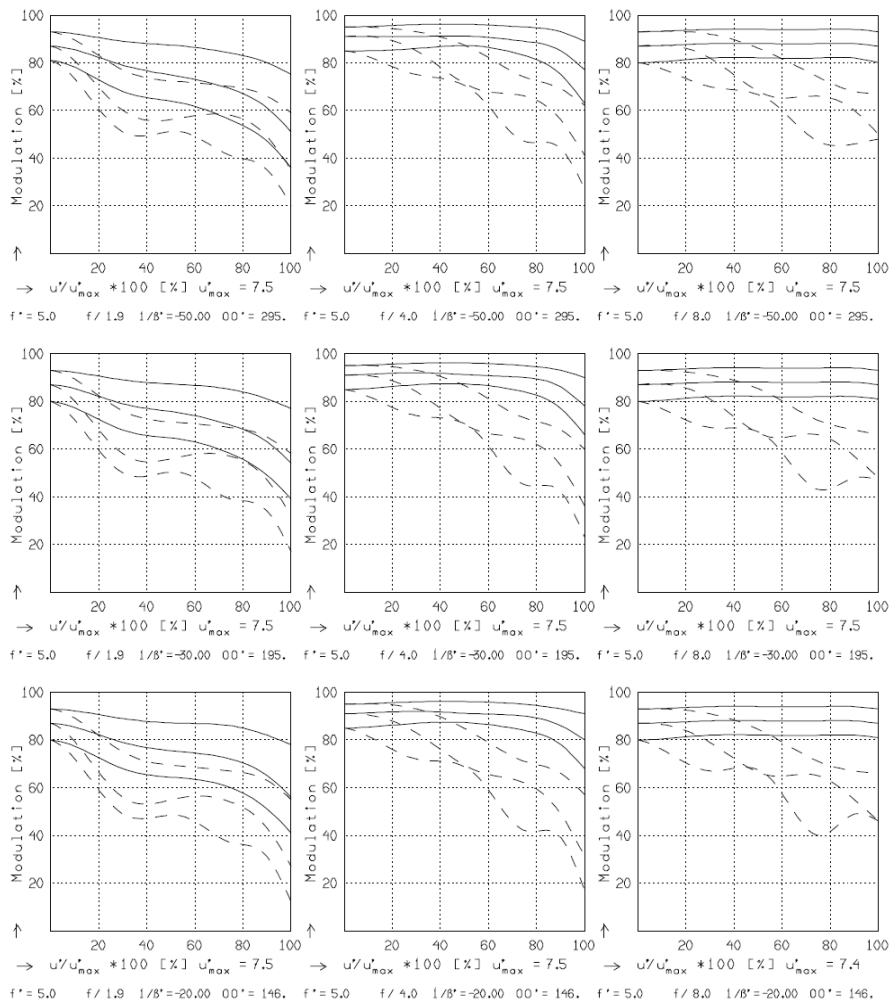
| | | | | | |
|-----------|---|---------|------------|---|----------|
| f' | = | 5,0 mm | β'_p | = | 6,632 |
| s_F | = | 13,2 mm | s_{EP} | = | 13,9 mm |
| s_{F^*} | = | 13,2 mm | s_{AP^*} | = | -19,8 mm |
| HH' | = | 35,4 mm | Σd | = | 45,3 mm |

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MODULATION with reference to the relative image height

| | | | | | | | |
|----------------------|-----------|------|------|------|------|------|-----|
| Wavelength λ | [nm] | 555 | 655 | 605 | 505 | 455 | 405 |
| Spectral weighting | [%] | 19,4 | 23,2 | 21,7 | 15,4 | 11,8 | 8,5 |
| 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 $f / 1,8$, $R = 30$ 1/mm, $u'/u'_{max} = 0$

