

3 Mega-Pixel Lens

Cinegon 2.1/6-0901

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.



Cinegon 2.1/6

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 | 2.1 |
| Focal length | 6.2 mm |
| Image circle | 11 mm |
| Transmission | 400 - 1000 nm |
| Interface | C-Mount |
| Weight | 110 gr. |
| Option | Filter holder with M62 x 0.75 |
| Code no. | 1055691 |

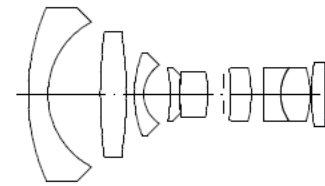
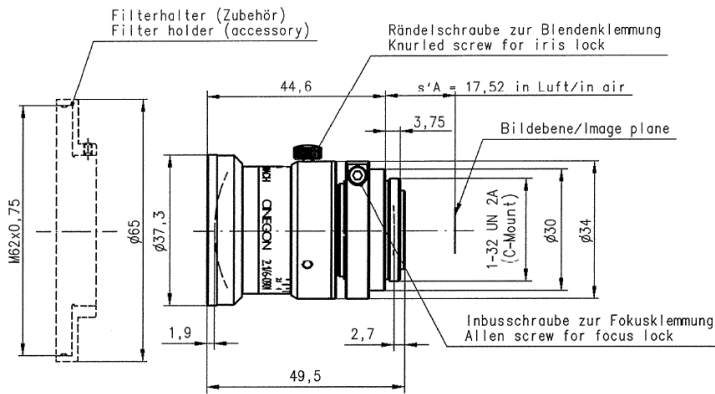
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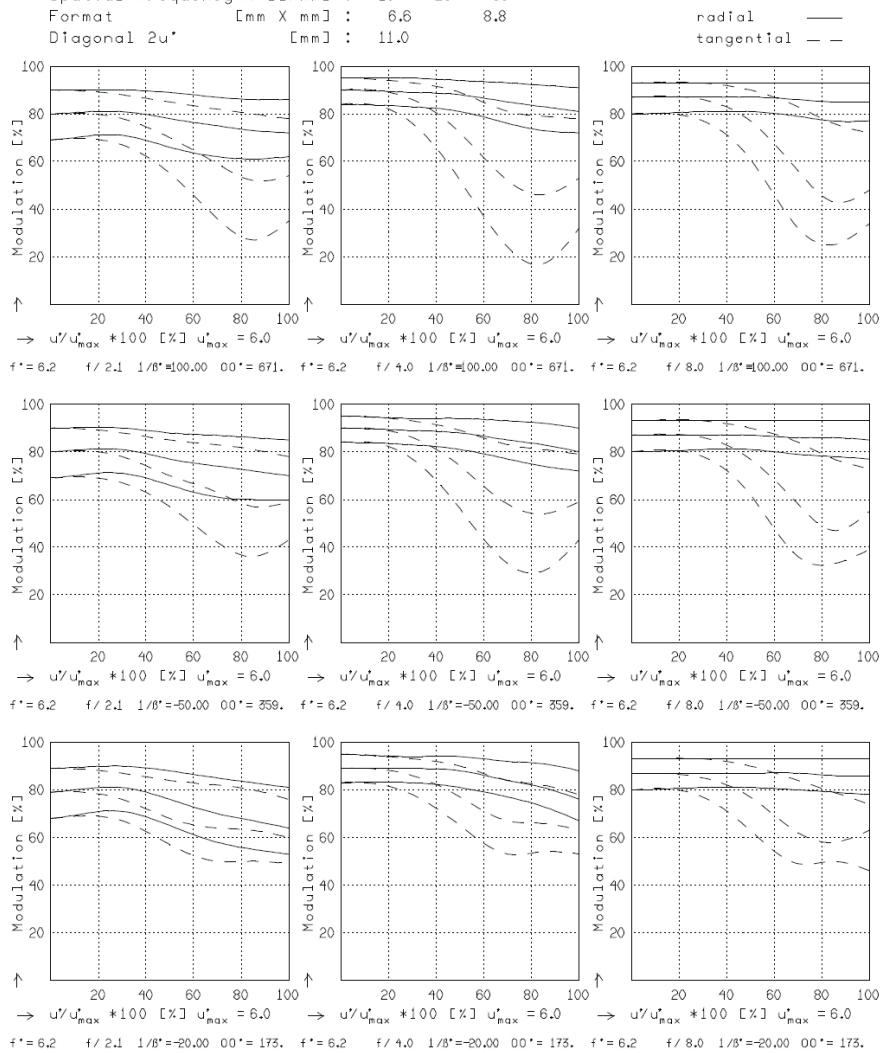
CINEGON 2.1/6.0

| | | | | | |
|-----------|---|---------|-------------|---|----------|
| f^* | = | 6.2 mm | β_p^* | = | 6.580 |
| s_F | = | 13.2 mm | s_{EP} | = | 14.1 mm |
| s_{F^*} | = | 15.3 mm | s_{AP} | = | -25.4 mm |
| HH^* | = | 35.0 mm | Σd | = | 45.3 mm |

CNG 2.1/6.0

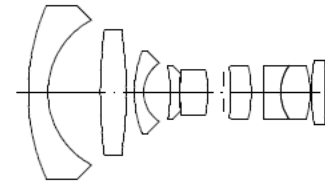
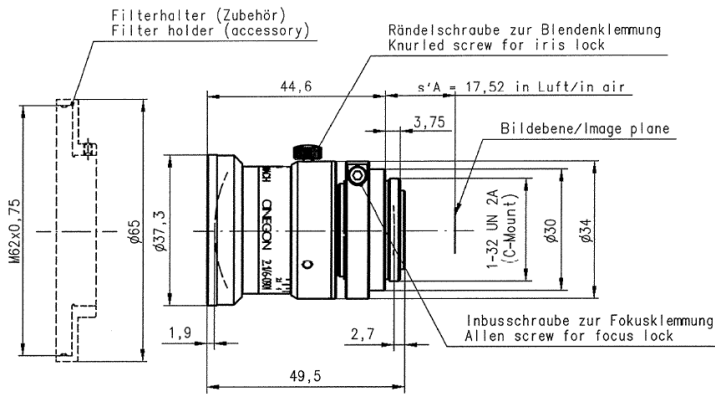
MODULATION with reference to the relative image height

| | | | | | | | |
|----------------------|-----------|------|------|------|------|------|-----|
| Wavelength λ | [nm] | 587 | 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 | 8.8 | | | | |
| Diagonal $2u'$ | [mm] | 11.0 | | | | | |



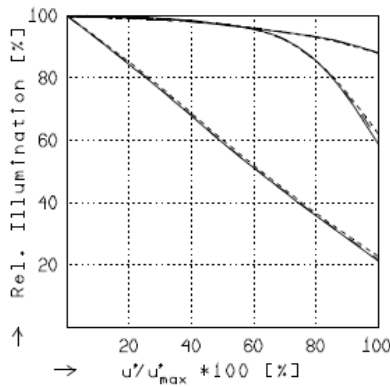
Focusing : MTF_{max} at $f / 2.1$. $R = 30$ 1/mm, $u'/u'_{max} = 0$

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CINEGON 2.1/6.0

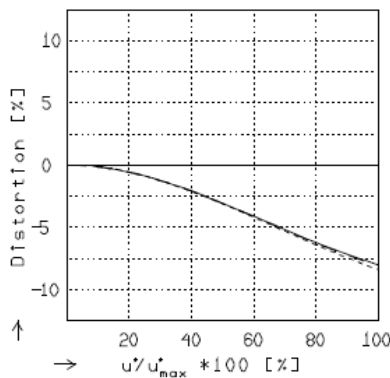
| | | | |
|----------|-----------|------------|------------|
| f' | = 6.2 mm | β_p | = 6.580 |
| s_F | = 13.2 mm | s_{EP} | = 14.1 mm |
| $s_{F'}$ | = 15.3 mm | s_{AP} | = -25.4 mm |
| HH' | = 35.0 mm | Σd | = 45.3 mm |



RELATIVE ILLUMINATION

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

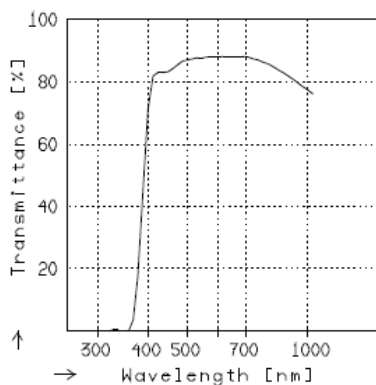
| | $f / 2.1$ | $f / 4.0$ | $f / 8.0$ |
|------------------------|------------------|--------------|-----------|
| — $\beta' = -0.0100$ | $u'_{max} = 5.5$ | $00' = 666.$ | |
| - - $\beta' = -0.0200$ | $u'_{max} = 5.5$ | $00' = 357.$ | |
| --- $\beta' = -0.0500$ | $u'_{max} = 5.5$ | $00' = 171.$ | |



DISTORTION

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

| | | |
|------------------------|------------------|--------------|
| — $\beta' = -0.0100$ | $u'_{max} = 5.5$ | $00' = 666.$ |
| - - $\beta' = -0.0200$ | $u'_{max} = 5.5$ | $00' = 357.$ |
| --- $\beta' = -0.0500$ | $u'_{max} = 5.5$ | $00' = 171.$ |



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.