

3 Mega Pixel lens for image circle 16 mm

Cinegon 1.9/10

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	1.9
Focal length	10.4 mm
Image circle	16 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	136 gr.
Option	Optical filter

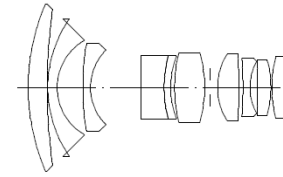
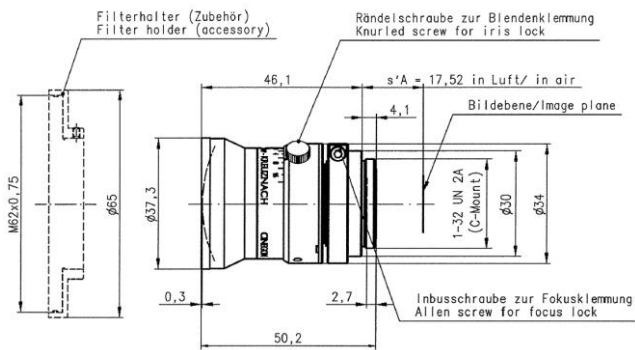
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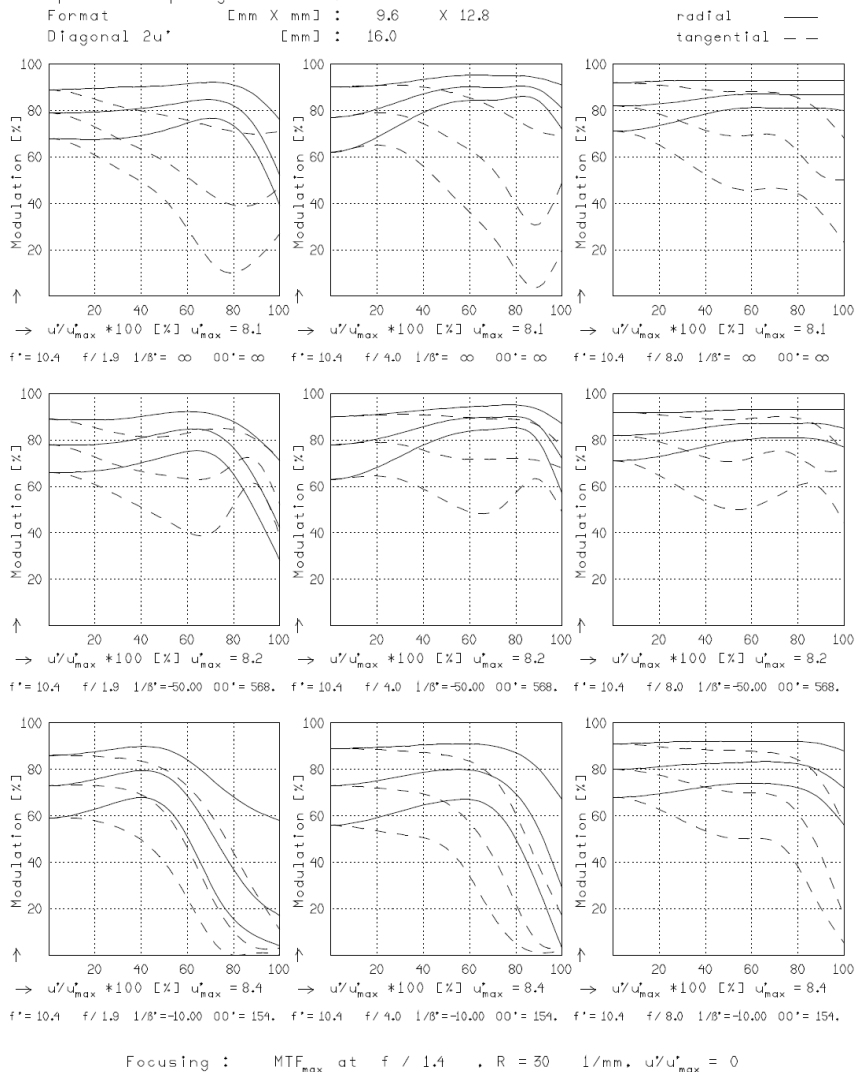
CINEGON 1.9/10MM

f^*	= 10.4 mm	β_p^*	= 2.823
s_F	= 13.9 mm	s_{EP}	= 17.5 mm
s_{F^*}	= 16.1 mm	s_{AP}	= -13.1 mm
HH^*	= 28.7 mm	Σd	= 47.2 mm

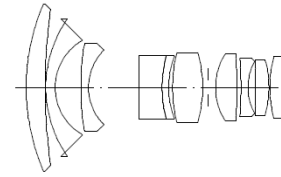
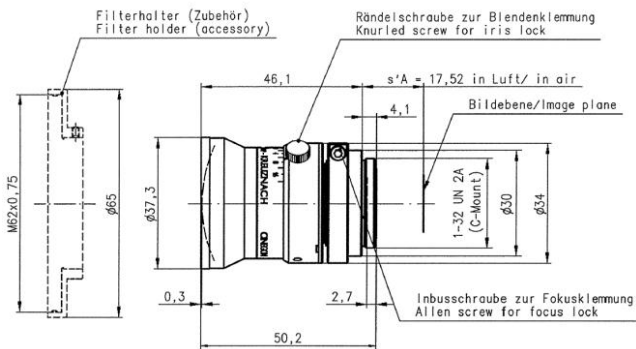
CINEGON 1.9/10MM

MODULATION with reference to the relative image height

Wavelength λ	[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]	9.6	X 12.8				
Diagonal $2u^*$	[mm]	16.0					

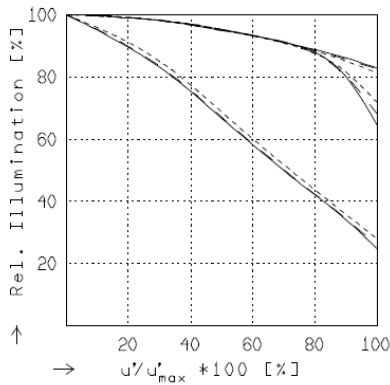


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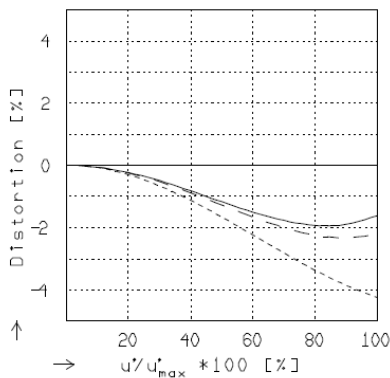
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RELATIVE ILLUMINATION

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

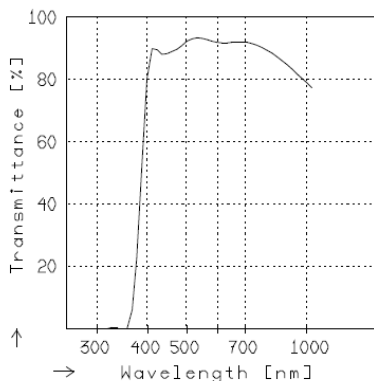
	$f / 1.9$	$f / 4.0$	$f / 8.0$
—	$\beta^* = 0.0000$	$u_{max}^* = 8.0$	$00' = \infty$
- -	$\beta^* = -0.0200$	$u_{max}^* = 8.0$	$00' = 567.$
- · - ·	$\beta^* = -0.1000$	$u_{max}^* = 8.0$	$00' = 154.$



DISTORTION

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

—	$\beta^* = 0.0000$	$u_{max}^* = 7.8$	$00' = \infty$
- -	$\beta^* = -0.0200$	$u_{max}^* = 7.8$	$00' = 567.$
- · - ·	$\beta^* = -0.1000$	$u_{max}^* = 8.0$	$00' = 154.$



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.