

Ruggedized Lens

Cinegon 2.1/6 – Ruggedized

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
- Stabilized mechanism
- 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 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	2.1
Focal length	6.2 mm
Image circle	11 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	110 gr.
Option	Optical filter

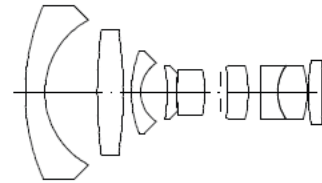
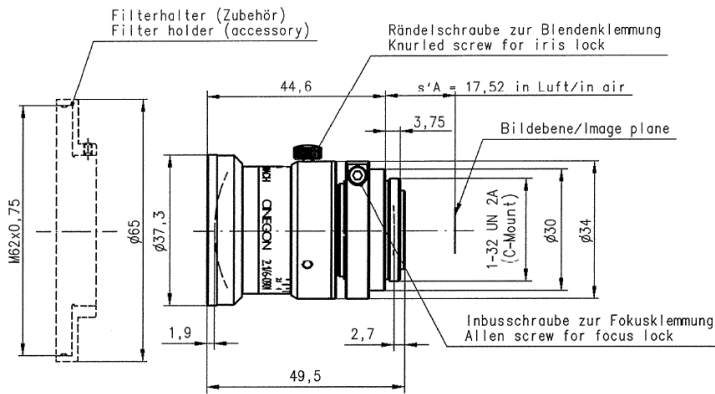
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CINEGON 2.1/6.0

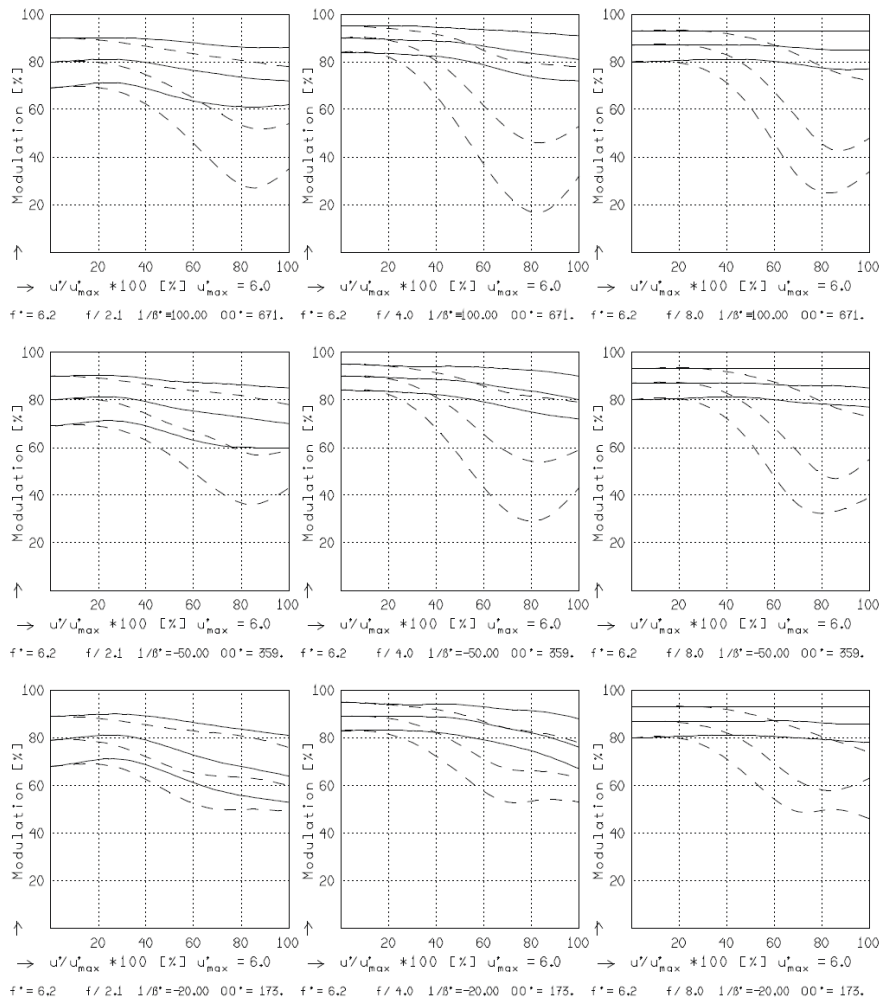
f'	=	6.2 mm	β_p	=	6.580
s_F	=	13.2 mm	s_{EP}	=	14.1 mm
$s_{F'}$	=	15.3 mm	s_{AP}	=	-25.4 mm
HH'	=	35.0 mm	Σd	=	45.3 mm

CNG 2.1/6.0

MODULATION with reference to the relative image height

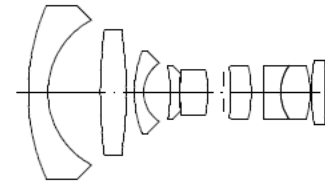
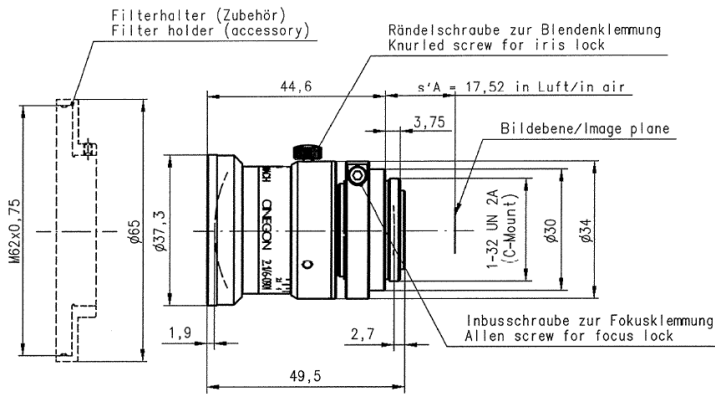
Wavelength λ	[nm]	587	655	605	505	455	405
Spectral weighting	[%]	19.4	23.2	21.7	15.4	11.8	8.5
Spatial frequency R	[1/mm]	10	20	30			
Format	[mm X mm]	6.6	8.8				
Diagonal $2u'$	[mm]	11.0					

radial —
tangential - - -



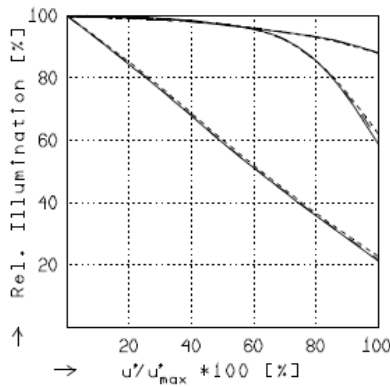
Focusing : MTF_{max} at $f / 2.1$. $R = 30$ 1/mm. $u'/u'_{max} = 0$

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CINEGON 2.1/6.0

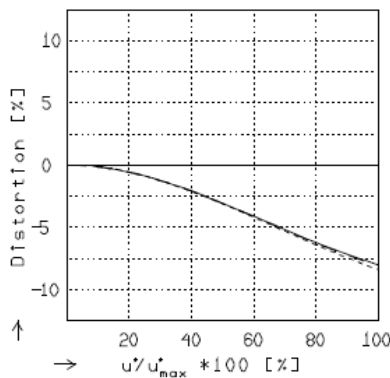
f'	=	6.2 mm	β_p	=	6.580
s_F	=	13.2 mm	s_{EP}	=	14.1 mm
$s_{F'}$	=	15.3 mm	s_{AP}	=	-25.4 mm
HH'	=	35.0 mm	Σd	=	45.3 mm



RELATIVE ILLUMINATION

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

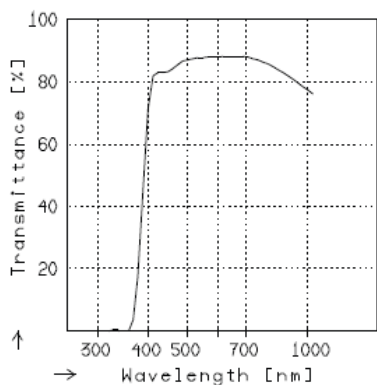
	$f / 2.1$	$f / 4.0$	$f / 8.0$
— $\beta' = -0.0100$	$u'_{max} = 5.5$	$00' = 666.$	
- - $\beta' = -0.0200$	$u'_{max} = 5.5$	$00' = 357.$	
--- $\beta' = -0.0500$	$u'_{max} = 5.5$	$00' = 171.$	



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.