

# Mega Pixel lens for image circle 16 mm

## Cinegon 1.8/16 -0901

In accordance with the sensitivity of modern 1" CCD and CMOS sensors the megapixel lenses are broadband coated and can be used in the visible range 400 – 700 nm or the near infrared range 700 – 1000 nm. 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 coated (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

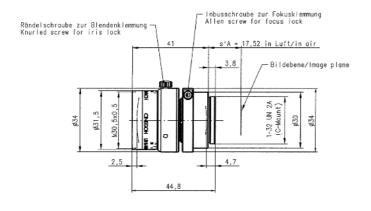
#### **Technical Specifications**

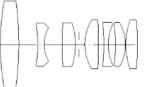
F-number	1.8
Focal length	16.4 mm
Image circle	16 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Weight	102 gr.
Filter Thread	M30.5 x 0.5
Order No.	1001482

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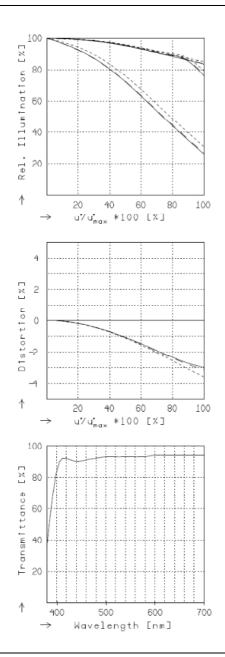
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f	=	16.4	m m	βŗ	=	2,591	
sF	=	11.1	m m	SEP	=	17.4	m m
s <sub>F</sub> .	=	18.5	m m	SAP	=	-24.1	m m
нн,	=	12.0	m m	Σd	=	37.5	m m



# RELATIVE ILLUMINATION

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

f	/	1.8	f	/ 4.0		f	/ 8.0	
	ß*	= 0.0000		u <b>,</b>	= 8.0		00'=	$\infty$
	ß*	0,0200		umax	- 8,0		00 • =	867,
	ß*	= -0,1000		uʻmax	= 8.0		00'=	211,

# DISTORTION

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

 ß' =	0.0000	umax	= 8.0	00'=	$\infty$
 ß* =	-0.0200	umax	= 8.0	00'=	867.
 ß* =	-0.1000	umax	= 8.0	00'=	211.

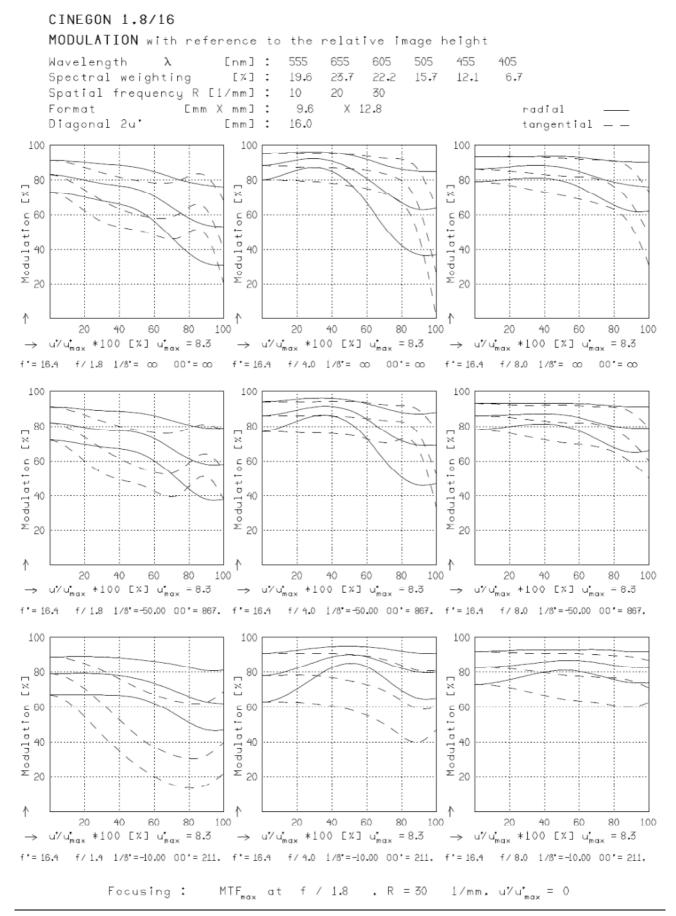
#### TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

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