

EN2MP1614 | DATASHEET

Fixed focal 2 Megapixel lens, focal length 16 mm, f/N 1.4 - close, C-mount





SPECIFICATIONS

Optical specifications		
Focal length	(mm)	16
Magnification ¹	(x)	0.052
Image circle	(mm)	11.0
Max sensor size		2/3"
WD range ²	(m)	0.3 - inf
f/N		1.4 - close
Back focal length	(mm)	12.67
Distortion on 1/3" ³	(%)	0.39
Distortion on 1/2" ³	(%)	0.65
Distortion on 2/3" ³	(%)	1.00
Iris control		Manual
Focus Control		Manual

Mechanical specifications

Mount		С
Filter thread		M30.5 x 0.5
Length ⁴	(mm)	31.6
Outer diameter	(mm)	34.0
Mass	(g)	76
Set screw thread		M1.7

Environment

Operating temperature range

-10-+50

(°C)

KEY ADVANTAGES

Suitable for wide range of applications Designed to satisfy simple vision tasks.

Wide product range Covers the most popular focal lengths used in factory automation.

High quality / price ratio High performance with reasonable cost.

Locking screws Locking screws for fixing focus and iris.

EN2MP series is a series of fixed focal length lenses designed for use in factory automation. Its high quality to price ratio allows simple vision tasks to be achieved easily and efficiently.

ANGLE OF VIEW

Sensors	Diagonal (°)
1/3" (4.8 x 3.6 mm x mm)	20.9
1/2" (6.4 x 4.8 mm x mm)	27.7
1/1.8" (7.1 x 5.3 mm x mm)	31.4
2/3" (8.5 x 7.1 mm x mm)	37.6

FIELD OF VIEW AT MINIMUM WORKING DISTANCE

Sensors	(mm x mm)
1/3" (4.8 x 3.6 mm x mm)	92.31 x 69.23
1/2" (6.4 x 4.8 mm x mm)	123.08 x 92.31
1/1.8" (7.1 x 5.3 mm x mm)	136.92 x 102.50
2/3" (8.5 x 7.1 mm x mm)	163.46 x 136.35

¹ Calculated at minimum working distance

² Working distance: distance between the front end of the mechanics and the object

³ Value calculated at the corner point of the sensor diagonal. For distortion graphs see below

⁴ Measured from the front end of the machanics to the camera flange at infinite focusing

COMPATIBLE PRODUCTS

Full list of compatible products available here.

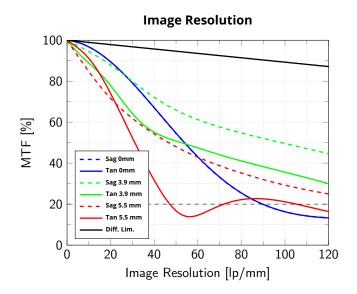


A wide selection of innovative machine vision components.

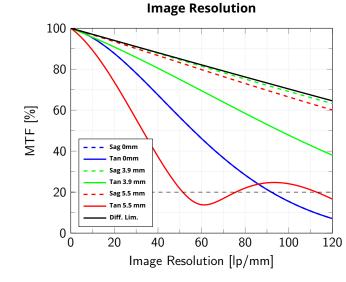
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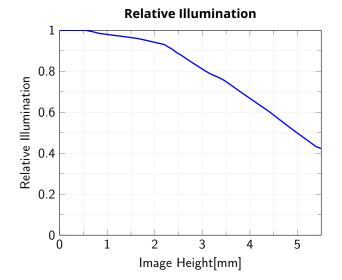
DATA AT INFINITE WORKING DISTANCE



Modulation Transfer Function (MTF) vs. Image Resolution, wavelength range 486 nm - 656 nm, at infinite working distance and maximum aperture



Modulation Transfer Function (MTF) vs. Image Resolution, wavelength range 486 nm - 656 nm, at infinite working distance at f/4



Relative illumination vs. Image Field Height, from the optical axis to the maximum image height at maximum aperture

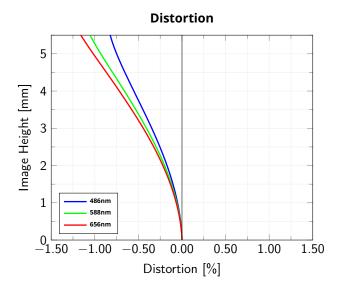
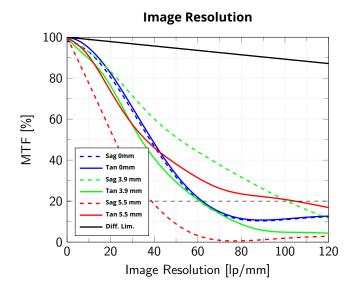


Image Field Height vs. Distortion, from the optical axis to the maximum image height

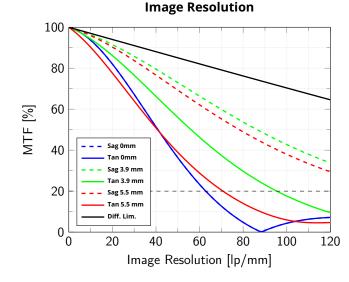
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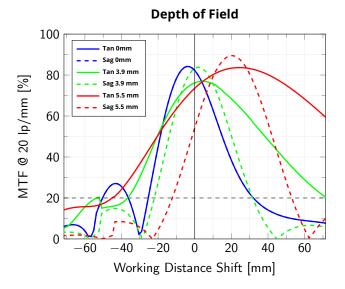
DATA AT MINIMUM WORKING DISTANCE



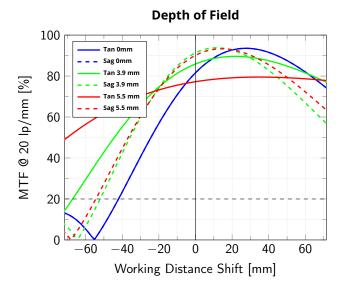
Modulation Transfer Function (MTF) vs. Image Resolution, wavelength range 486 nm - 656 nm, at minimum working distance and maximum aperture



Modulation Transfer Function (MTF) vs. Image Resolution, wavelength range 486 nm - 656 nm, at minimum working distance at f/4



Modulation Transfer Function (MTF) @ 20 lp/mm vs. Working Distance Shift from the best focus at minimum working distance, wavelength range 486 nm - 656 nm, maximum aperture



Modulation Transfer Function (MTF) @ 20 lp/mm vs. Working Distance Shift from the best focus at minimum working distance, wavelength range 486 nm - 656 nm, *f*/4

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