

EN5MP2514 | DATASHEET

Fixed focal 5 Megapixel lens, focal length 25 mm, f/N 1.4 - 22, C-mount



SPECIFICATIONS

Optical specifications

Focal length	(mm)	25
Magnification ¹	(x)	0.127
Image circle	(mm)	11.0
Max sensor size		2/3"
WD range ²	(m)	0.2 - inf
f/N		1.4 - 22
Back focal length	(mm)	12.78
Distortion on 1/3" ³	(%)	0.12
Distortion on 1/2" ³	(%)	0.17
Distortion on 2/3" ³	(%)	0.19
Iris control		Manual
Focus Control		Manual

Mechanical specifications

Mount		C
Filter thread		M37.5 x 0.5
Length ⁴	(mm)	54.5
Outer Diameter	(mm)	43.3
Mass	(g)	148

Environment

Operating temperature range (°C) -10+50

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 mechanics to the camera flange at infinite focusing

KEY ADVANTAGES

High resolution

Designed for high resolution cameras up to 5 Megapixel with 2/3" sensor.

Suitable for more complex applications

Ideal to achieve complex vision tasks.

Cost saving solution

High optical performance with reasonable cost.

Robust design

Designed for use in machine vision applications.

EN5MP series is a series of high resolution fixed focal length lenses designed for use in machine vision applications.

ANGLE OF VIEW

Sensors	Diagonal (°)
1/3" (4.8 x 3.6 mm x mm)	13.7
1/2" (6.4 x 4.8 mm x mm)	18.2
2/3" (8.5 x 7.1 mm x mm)	24.8

FIELD OF VIEW AT MINIMUM WORKING DISTANCE

Sensors	(mm x mm)
1/3" (4.8 x 3.6 mm x mm)	37.94 x 28.46
1/2" (6.4 x 4.8 mm x mm)	50.59 x 37.94
2/3" (8.5 x 7.1 mm x mm)	67.19 x 56.05

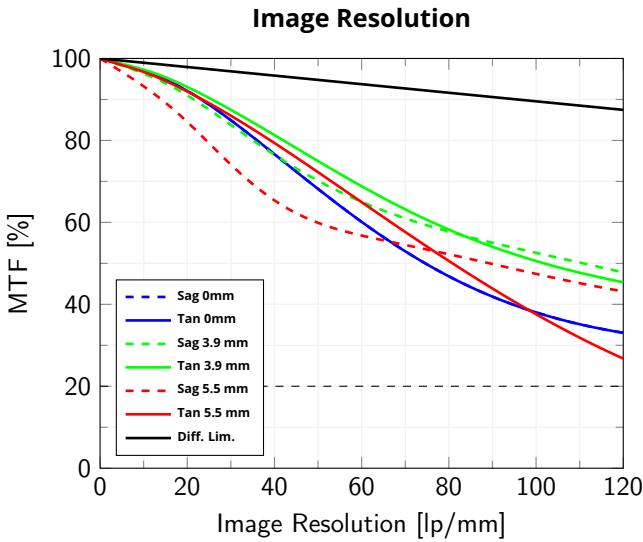
COMPATIBLE PRODUCTS

Full list of compatible products available [here](#).

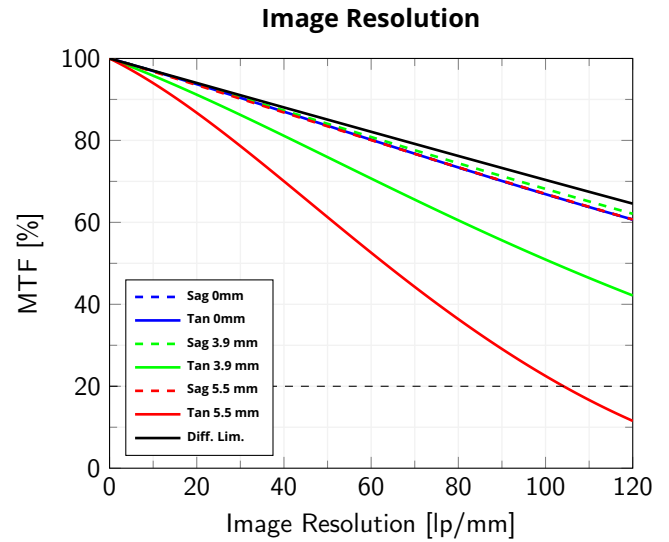


A wide selection of innovative machine vision components.

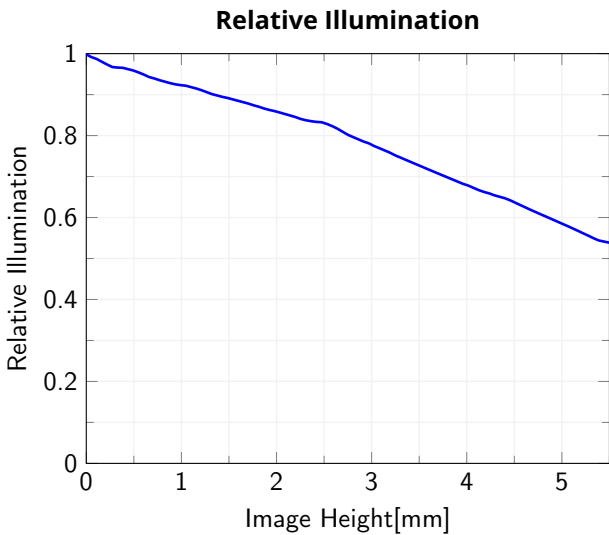
DATA AT INFINITE WORKING DISTANCE



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

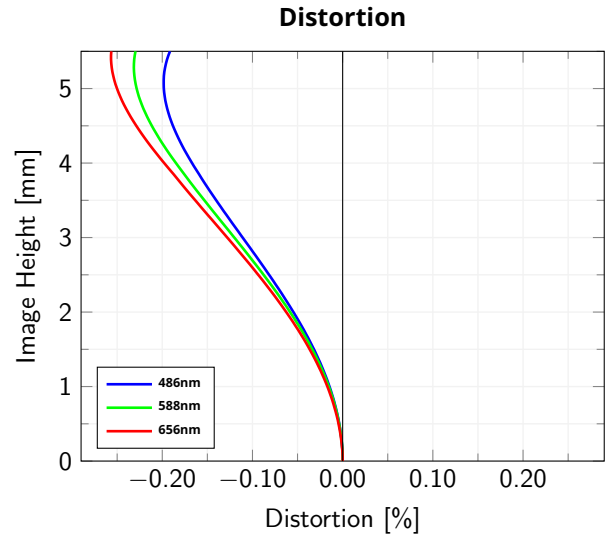
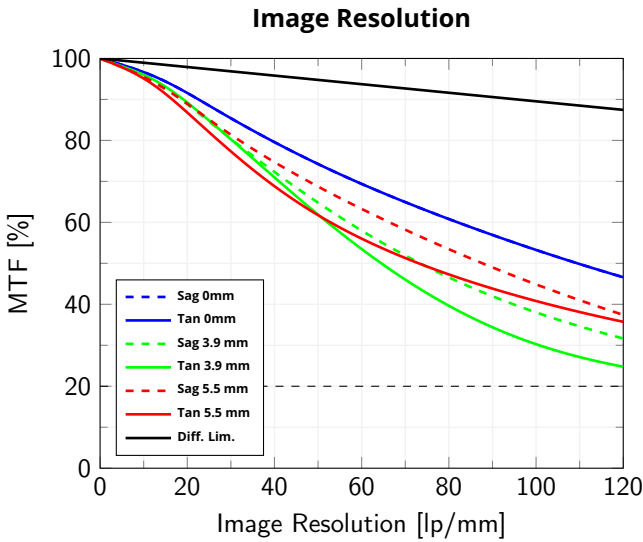


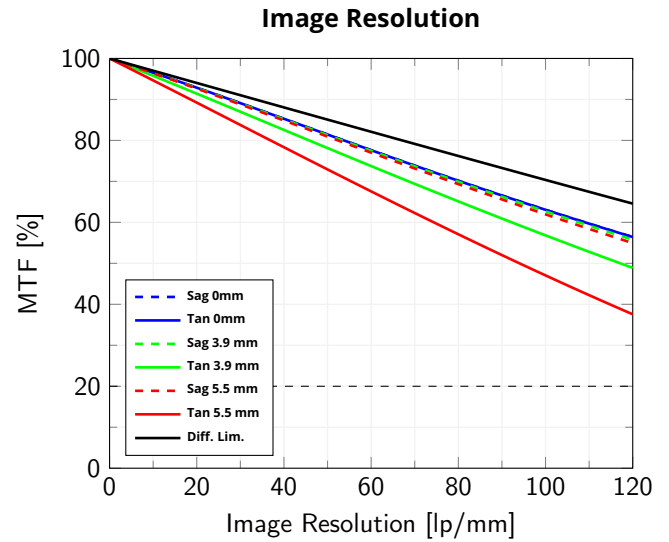
Image Field Height vs. Distortion, from the optical axis to the maximum image height

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

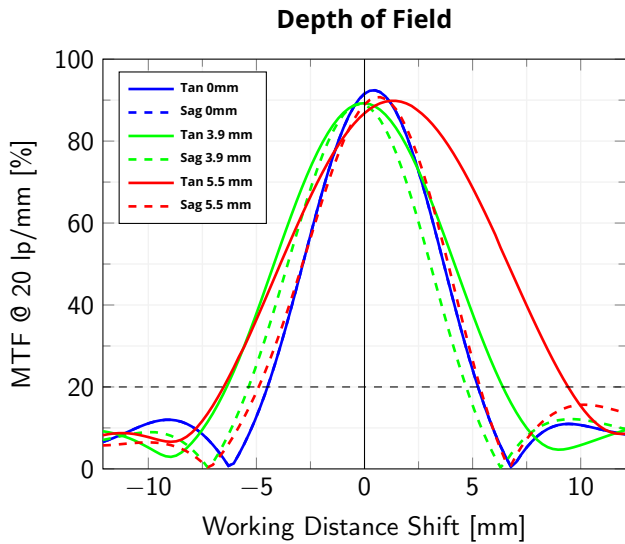
DATA AT MINIMUM WORKING DISTANCE



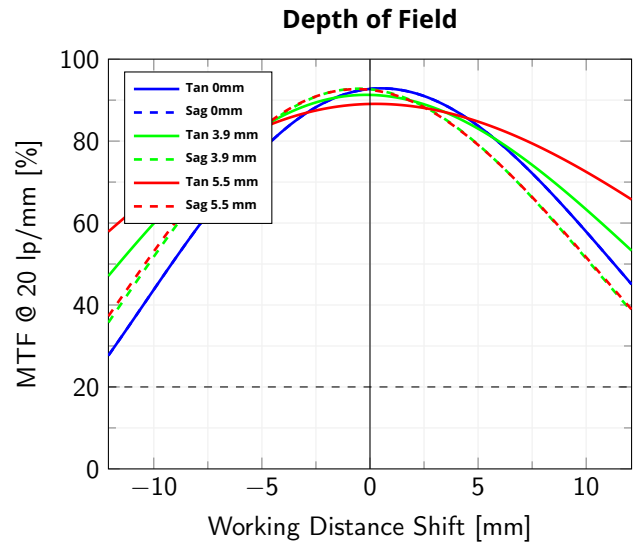
Modulation Transfer Function (MTF) vs. Image Resolution, wavelength range 486 nm - 656 nm, at minimum working distance and maximum aperture



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, $f/4$

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.