MC4K125X-N

Macro lens for 4k linescan cameras, magnification 1.25x, mount M42X1 FD = 10.56

SPECIFICATIONS

Focusing (1)		near	nominal	far
Magnification	(×)	1.295	1.250	1.204
Object field of view (mm x mm)				
with KAI-04050 16 mm diagonal w x h 12.8 x 9.6		9.9 x 7.4	10.2 x 7.7	10.6 x 8.0
with 2k x 10 µm detector 20.48		15.8	16.4	17.0
with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2		11.7 x 11.7	12.2 x 12.2	12.6 x 12.6
with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6		14.0 x 10.5	14.5 x 10.9	15.0 x 11.3
with 4k x 7 µm detector 28.67		22.1	22.9	23.8
Optical specifications				

94.0

6.7 (15) < 0.01

(0.03)

0.7

> 40

0.033

0.043

(mm)

(%)

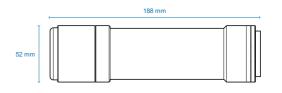
(mm)

(%)

96.1

98.5





Field depth (4) CTF @ 50 lp/mm

Image side numerical aperture

Object side numerical aperture

Distortion typical (max) (3)

Mechanical specifications

Working distance

f/# (wF/#) (2)

Meenanical specifications				
Length (5)	(mm)	188.1	 	
Diameter	(mm)	52.0	 	
Mass	(g)	590	 	
Mount (6)		M42X1	 	

NOTES

- 1. Maximum and minimum magnification changes when focusing.
- F/# = F-number, wF/# = working F-number, the real F-number of a lens when used as a macro. Lenses with smaller apertures can be supplied on request.
- 3. Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
- At the borders of the field depth the image can be still used for measurement but to get a perfectly sharp image only half of the nominal field depth should be taken into account.
- 5. Measured from the front end of the mechanics to the camera flange; take into account a +/- 2.5 mm tolerance due to the focussing mechanism.

