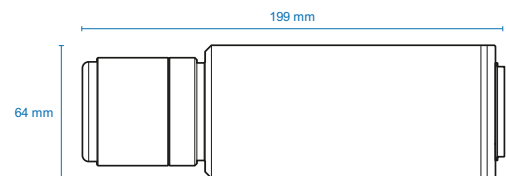


MC4K175X-F

Macro lens for 4k linescan cameras, magnification 1.75x, F-mount

SPECIFICATIONS

Focusing (1)		near	nominal	far
Magnification	(x)	1.793	1.750	1.705
Object field of view (mm x mm)				
with KAI-04050 16 mm diagonal w x h 12.8 x 9.6		7.1 x 5.4	7.3 x 5.5	7.5 x 5.6
with 2k x 10 µm detector 20.48		11.4	11.7	12.0
with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2		8.5 x 8.5	8.7 x 8.7	8.9 x 8.9
with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6		10.1 x 7.6	10.3 x 7.8	10.6 x 8.0
with 4k x 7 µm detector 28.67		16.0	16.4	16.8
Optical specifications				
Working distance	(mm)	82.7	83.8	85.0
f/# (wF/#) (2)		6.5 (18)
Distortion typical (max) (3)	(%)	< 0.01	(0.03)	
Field depth (4)	(mm)	0.4		
CTF @ 50 lp/mm	(%)	> 35		
Image side numerical aperture		0.028		
Object side numerical aperture		0.050		
Mechanical specifications				
Length (5)	(mm)	198.5		
Diameter	(mm)	64.0		
Mass	(g)	720		
Mount (6)		F		



NOTES

1. Maximum and minimum magnification changes when focusing.
2. 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.
4. 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.