

MC12K150X-R

Linescan macro lens, magnification 1.50x, M72 x 0.75 mount

SPECIFICATIONS

Focusing (1)		near	nominal	far
Magnification	(x)	1.517	1.500	1.484

Object field of view (mm x mm)				
with line - 12k detector 12k x 5.2 μm	62.40	40.9	41.6	41.8
with line - 12k detector 12k x 5 μm	61.44	40.5	41.0	41.4
with line - 16k detector 16k x 3.5 μm	57.34	38.2	38.2	39.0
with 35 mm detector 36 x 24 (mm x mm)		23.7 x 15.8	24.0 x 16.0	24.3 x 16.2

Optical specifications				
Working distance	(mm)	109.3	110.0	110.7
F/# (wF/#) (2)		6.0 (15)
Distortion typical (max) (3)	(%)		< 0.01 (0.02)	
Field depth (4)	(mm)		0.2	
CTF 50 lp/mm	(%)		> 40	
Image side numerical aperture			0.033	
Object side numerical aperture			0.05	

Mechanical specifications				
Length (5)	(mm)		242.5	
Diameter	(mm)		76	
Mass	(g)		1229	
Mount (6)			M72 x 0.75	FD 6.56

NOTES

- Maximum and minimum acceptable focusing change
- 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
- 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 very sharp image only half of the nominal field depth should be taken into account
- Measured from the front end of the mechanics to the camera flange; take into account a +/- 2.5 mm tolerance due to the focusing mechanism
- FD stands for Flange Distance (in mm), defined as the distance from the mounting flange (the "metal ring" in rear part of the lens) to the camera detector plane.
F Mount (-F) may cause vignetting with sensor diagonal > 50 mm.
For such sensor size we suggest mount M72x0.75, FD 6.56 (-R).
Mount M58x0.75 (-I) may cause vignetting with sensor diagonal > 52 mm.
For such sensor size we suggest mount M72x0.75, FD 6.56 (-R).

