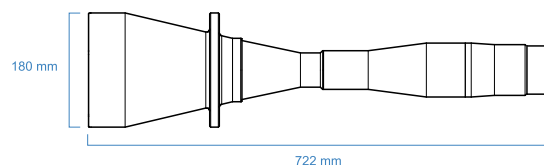


TC12K 120

Telecentric lens for 12k and 16k linescan cameras, magnification 0.529 x, M72 x 0.75 mount

Magnification	(x)	0.529
Image circle	(mm)	62.4
Object field of view		
with line-12K detector 12k x 5.2 μm	(mm)	117.9
with line-12k detector 12k x 5 μm	(mm)	116.1
with line-16k detector 16k x 3.5 μm	(mm)	108.4
with line-8k detector 8k x 7 μm	(mm)	108.4
Optical specifications		
Working distance (1)	(mm)	254.0
f/# (2)		16
Telecentricity typical (max) (3)	(deg)	< 0.06 (0.08)
Distortion typical (max) (4)	(%)	< 0.06 (0.08)
Field depth (5)	(mm)	4
CTF@ 70 lp/mm	(%)	> 40
Mechanical specifications		
Length (6)	(mm)	722.1
Diameter	(mm)	180
Mass	(g)	8000
Mount (7)		M72 x 0.75 - FD 6.56



NOTES

1. Working distance: distance between the front lens and the object. Set this distance within +/- 3% of the nominal value for maximum resolution and minimum distortion
2. 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. Maximum slope of principal rays inside the lens: when converted to milliradians, it gives the maximum measurement error for any millimeter of object displacement
4. Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
5. 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 considered. Pixel size used for calculation is 4.35 μm .
6. Measured from the front end of the mechanics to the camera flange.
7. 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.

COMPATIBLE PRODUCTS



LTCLHP120-G
Telecentric HP illuminator, beam diameter 150 mm, green



CMHO 120
Clamping mechanics for TCxx110, TCxx120 lenses and LTCL120-X illuminators



LTRN 120 NW
Ring LED illuminator, white