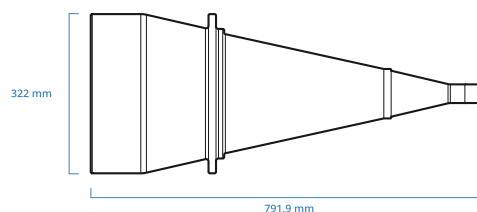


TC 23 200

Bi-telecentric lens for 2/3" detectors, magnification 0.044 x, C-mount

Magnification	(x)	0.044
Image circle	(mm)	11.0
Object field of view		
with 1/3" detector (4.8 x 3.6 mm)	(mm x mm)	110.0 x 82.5
with 1/2.5" detector (5.70 x 4.28 mm)	(mm x mm)	130.7 x 98.0
with 1/2" detector (6.4 x 4.8 mm)	(mm x mm)	146.7 x 110.0
with 1/1.8" detector (7.13 x 5.37 mm) (7)	(mm x mm)	163.3 x 123.0
with 2/3" - 5 Mpx detector (8.45 x 7.07 mm)	(mm x mm)	193.5 x 161.9
Optical specifications		
Working distance (1)	(mm)	500.0
f/# (2)		8
Telecentricity typical (max) (3)	(deg)	< 0.06 (0.08)
Distortion typical (max) (4)	(%)	< 0.05 (0.10)
Field depth (5)	(mm)	352
CTF @ 70 lp/mm	(%)	> 40
Dimensions		
Mount		C
Length (6)	(mm)	792.0
Diameter	(mm)	322
Mass	(g)	20900



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 chief rays inside the lens: when converted to millirad, it gives the maximum measurement error for any millimeter of object displacement. Typical (average production) values and maximum (guaranteed) values are listed.
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 5.5 µm.
6. Measured from the front end of the mechanics to the camera flange.
7. With 1/1.8" (9 mm diagonal) detectors, the FOV of TC12 yyy lenses may show some vignetting at the image corners, as these lenses are optimized for 1/2" detectors (8 mm diagonal).
8. For the fields with the indication "Ø =", the image of a circular object of such diameter is fully inscribed into the detector.

COMPATIBLE PRODUCTS



LTCLHP240-G
Telecentric HP illuminator, beam diameter 300 mm, green