

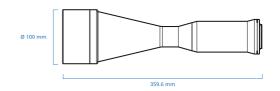
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TC 16M 064

Bi-telecentric lens for 35 mm detectors, magnification 0.561 x, F-mount

Magnification	(x)	0.561
Image circle	(mm)	43.3
Object field of view		
with 2k x 10 μm detector	(mm)	36.5
with 4k x 7 μm detector	(mm)	51.1
with 8k x 5 μm detector	(mm)	73.1
with 36 x 24 mm detector	(mm x mm)	64.2 x 42.8
Optical specifications		
Working distance (1)	(mm)	171.0
f/# (2)		16
Telecentricity typical (max) (3)	(deg)	< 0.04 (0.08)
Distortion typical (max) (4)	(%)	< 0.06 (0.15)
Field depth (5)	(mm)	4
CTF@ 70 lp/mm	(%)	> 30
Mechanical specifications		
Mount		F
Length (6)	(mm)	359.6
Diameter	(mm)	100
Mass	(g)	1380









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 milliradians, 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.
- 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 4.8 μm.
- 6. Measured from the front end of the mechanics to the camera flange.

COMPATIBLE PRODUCTS



LTCLHP064-G Telecentric HP illuminator, beam diameter 80 mm, green



CMHO 064 Clamping mechanics for TCxx064 lenses and LTCL064-X illuminators



LTRN 064 NW Ring LED illuminator, white