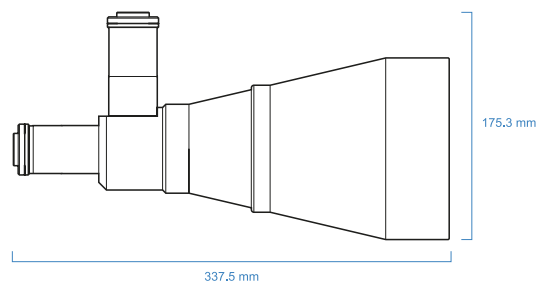


TCDP2X096

Double magnification bi-telecentric lens, for detectors up to 2/3"

SPECIFICATIONS

Magnification	(x)	0.093	0.187
Object field of view		(mm x mm)	
with 1/3" detector (4.8 x 3.6 mm)		51.4 x 38.5	25.7 x 19.3
with 1/2.5" detector (5.70 x 4.28 mm)		61.0 x 45.8	30.5 x 22.9
with 1/2" detector (6.4 x 4.8 mm)		68.5 x 51.4	34.3 x 25.7
with 1/1.8" detector (7.13 x 5.37 mm)		76.3 x 57.5	38.1 x 28.7
with 2/3" - 5 MP detector (8.45 x 7.07 mm)		90.4 x 75.6	45.2 x 37.8
Optical specifications			
Working distance	(mm)	278.6	...
wF/# (1)		8	12
Telecentricity (2)	(deg)	< 0.06 (0.08)	< 0.06 (0.10)
Distortion , typical (max)	(%)	< 0.04 (0.08)	< 0.05 (0.08)
Field depth (3)	(mm)	77	29
CTF @ 70 lp/mm	(%)	> 30	> 40
Mechanical specifications			
Length	(mm)	337.0	...
Diameter (Width)	(mm)	143	(175)
Mass	(g)	2852	...
Mount		C	...



NOTES

1. Working F/#: the real F/# of a lens when used as a macro.
2. Maximum slope of principal rays inside the lens: when converted to milliradians, it gives the maximum measurement error for any millimeter of object displacement
3. 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.

COMPATIBLE PRODUCTS

LTCLHP096-G	Telecentric HP illuminator, beam diameter 120 mm, green
CMHO096	Clamping mechanics for TCx085, TCx096 lenses and LTCLHP096-X illuminators
LTRN096NW	Ring LED illuminator, inner diameter 143 mm, straight type, white

