



TCDP4X240

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

SPECIFICATIONS

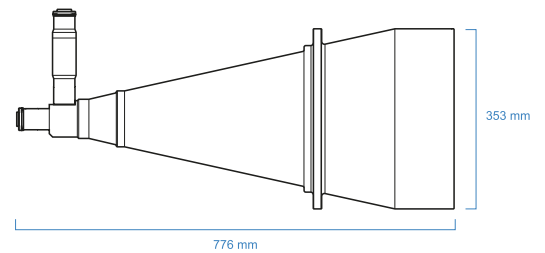
Magnification	(x)	0.037	0.147
Object field of view (mm x mm)			
with 1/3" detector (4.8 x 3.6 mm)		130.8 x 98.1	32.7 x 24.5
with 1/2.5" detector (5.70 x 4.28 mm)		155.4 x 116.6	38.9 x 29.1
with 1/2" detector (6.4 x 4.8 mm)		174.4 x 130.8	43.6 x 32.7
with 1/1.8" detector (7.13 x 5.37 mm)		194.3 x 146.3	48.6 x 36.6
with 2/3" - 5 MP detector (8.45 x 7.07 mm)		230.2 x 192.6	57.5 x 48.1

Optical specifications

Working distance	(mm)	492.8	...
wF/# (1)		8	12
Telecentricity (2)	(deg)	< 0.03 (0.08)	< 0.06 (0.10)
Distortion , typical (max)	(%)	< 0.04 (0.08)	< 0.08 (0.10)
Field depth (3)	(mm)	498	47
CTF @ 70 lp/mm	(%)	> 30	> 45

Mechanical specifications

Length	(mm)	776.0	...
Diameter (Width)	(mm)	322	...
Mass	(g)	19122	...
Mount		C	...



NOTES

1. Working F-number (wF/#): 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.

