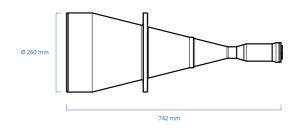


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TC16M 192

Bi-telecentric lens for 35 mm detectors, magnification 0.187 x, F-mount

Magnification	(x)	0,187
Image circle	(mm)	43,3
Object field of view		
with 2k x 10 μm detector	(mm)	109,5
with 4k x 7 µm detector	(mm)	153,3
with 8k x 5 µm detector	(mm)	219,0
with 36 x 24 mm detector	(mm x mm)	192 x 128
Optical specifications		
Working distance (1)	(mm)	457,5
f/# (2)		16
Telecentricity typical (max) (3)	(deg)	< 0.06 (0.08)
Distortion typical (max) (4)	(%)	< 0.05 (0.10)
Field depth (5)	(mm)	33
CTF@ 70 lp/mm	(%)	> 40
Mechanical specifications		
Mount		F
Length (6)	(mm)	742
Diameter	(mm)	260
Mass	(g)	10267





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