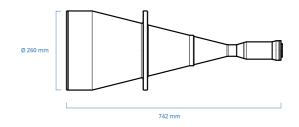


TC16M 192

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

Image circle Object field of view	(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 (6)		F
Length (7)	(mm)	742.0
Diameter	(mm)	260
Mass	(g)	10267





REACH



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 μ m.
- 6. FD stands for Flange Distance (in mm), defined as the distance from the mounting flange (the "metal ring" in rear part of the lens) to the camera detector plane.
- 7. Measured from the front end of the mechanics to the camera flange.