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## TCUV23048

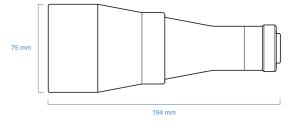
UV telecentric lens

## SPECIFICATIONS

Magnification	(×)	0.183
Object field of view		
with 1/3" detector (4.8 x 3.6 mm)	(mm x mm)	26.2 x 19.6
with 1/2.5" detector (5.70 x 4.28 mm)	(mm x mm)	19.6 x 14.7
with 1/2" detector (6.4 x 4.8 mm)	(mm x mm)	34.9 x 26.2
with 1/1.8" detector (7.13 x 5.37 mm) (8)	(mm x mm)	39.0 x 29.1
with 2/3" detector (8.8 x 6.6 mm)	(mm x mm)	48.0 x 36.0
Optical specifications		
Working distance (1)	(mm)	130.7

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wF/# (2)		8
Telecentricity (3)	(deg)	< 0.08
Distortion (4)	(%)	< 0.08
Field depth (5)	(mm)	19.7
CTF@ 70 lp/mm (6)	(%)	> 40





## Mechanical specifications

Phase adjustment (10)		
Mount		С
Length (7)	(mm)	194.5
Diameter	(mm)	75.0
Mass	(g)	750

## 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.
- Working F-number (wF/#): the real F-number of a lens when used as a macro. Lenses with smaller apertures (higher wF/#) can be supplied on request.
- 3. Maximum slope of chief rays inside the lens: when converted to millirad, it gives the maximum measurement error for any millimeter of object displacement. Typical (average production) values and maximum (guaranteed) values measured at 395 nm are listed.
- 4. Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values measured at 395 nm 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.
- 6. Nominal value
- 7. Measured from the front end of the mechanics to the camera flange.
- 8. With 1/1.8" (8.9 mm diagonal) detectors, the FOV of TCUV 12 XX lenses may show some vignetting at the image corners, as these lenses are optimized for 1/2" detectors (8 mm diagonal).
- 9. For the fields with the indication "Ø =", the image of a circular object of such diameter is fully inscribed into the detector.
- 0. Indicates the availability of an integrated camera phase adjustment feature.



