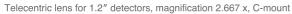
# TC4M 007-C





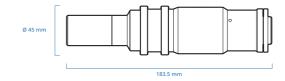
### **SPECIFICATIONS**

Magnification	(x)	2.667
Image circle Ø	(mm)	22.0
Object field of view		
with KAI-2020 14.8 mm diagonal w x h 11.84 x 8.88	(mm x mm)	4.4 x 3.3
with KAI-04050 16 mm diagonal w x h 12.8 x 9.6	(mm x mm)	4.8 x 3.6
with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2	(mm x mm)	5.7 x 5.7
with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6(7)	(mm x mm)	6.8 x 5.1



#### Optical specifications

Working distance (1)	(mm)	60.1
f/# (2)		22
Telecentricity typical (max) (3)	(deg)	< 0.08 (0.10)
Distortion typical (max) (4)	(%)	< 0.06 (0.10)
Field depth (5)	(mm)	0.2
CTF@ 70 lp/mm	(%)	> 30



#### Mechanical specifications

Mechanical specifications		
Mount		С
Length (6)	(mm)	183.5
Diameter	(mm)	45
Mass	(g)	200





## NOTES

- 1. Working Distance: distance between the front end of the mechanics 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.
- Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
- 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.
- 7. With KAI-08050 (22.6 mm diagonal) detectors, the FOV of TC4M yyy lenses may show some vignetting at the image corners, as these lenses are optimized for 1.2" detectors (21.5 mm)

## COMPATIBLE PRODUCTS







CMHO 023 Clamping mechanics for TCxx004, 007, 009, 012 and LTCLHP023-X



LTRN 023 NW Ring LED illuminator, white