



# TCCRBENCH096

Telecentric CORE optical bench, magnification 0.093 x

## SPECIFICATIONS

### Object field of view

with 1/3" detector (4.8 x 3.6 mm)	(mm × mm)	51.4 x 38.5
with 1/2.5" detector (5.70 x 4.28 mm)	(mm × mm)	61.0 x 45.8
with 1/2" detector (6.4 x 4.8 mm)	(mm × mm)	68.5 x 51.4
with 1/1.8" detector (7.13 x 5.37 mm)	(mm × mm)	76.3 x 57.5
with 2/3" - 5 MP detector (8.45 x 7.07 mm)	(mm × mm)	90.4 x 75.6

### Optical specifications

Magnification	(x)	0.093
Image shape dimension (4)	( $\emptyset$ , x mm)	$\emptyset=11.4$ , x=9.4
Working distance	(mm)	278.6
Optical Accuracy (1)	( $\mu\text{m}$ )	< 70
Field depth (2)	(mm)	94
CTF @ 70 lp/mm	(%)	> 50
Phase adjustment (3)		Yes

### Dimensions

Length	(mm)	696
Width	(mm)	200
Height	(mm)	189
Mass	(g)	15207
Mount		C

## NOTES

1. Working distance: distance between the front end of the lens mechanics and the object. Set this distance within +/- 3% of the nominal value for maximum resolution and minimum distortion.
2. At the borders of the field depth the image can be still used for measurement but, to get a perfectly sharp image, only half of the nominal field depth should be considered. Pixel size used for calculation is 5.5  $\mu\text{m}$
3. Indicates the availability of an integrated camera phase adjustment feature.
4. Indicates the dimensions and shape of image, where " $\emptyset$  =" stands for diameter and "x=" indicates the nominal image height and length ([Tech Info](#) for related drawing).

