



# TCCRBENCH048

Telecentric CORE optical bench, magnification 0.184 x

## SPECIFICATIONS

### Object field of view

with 1/3" detector (4.8 x 3.6 mm)	(mm × mm)	26.1 x 19.6
with 1/2.5" detector (5.70 x 4.28 mm)	(mm × mm)	31.0 x 23.3
with 1/2" detector (6.4 x 4.8 mm)	(mm × mm)	34.8 x 26.1
with 1/1.8" detector (7.13 x 5.37 mm)	(mm × mm)	38.8 x 29.2
with 2/3" - 5 MP detector (8.45 x 7.07 mm)	(mm × mm)	46.0 x 38.4

### Optical specifications

Magnification	(x)	0.184
Image shape dimension (4)	( $\emptyset$ , x mm)	$\emptyset=11.0$ , x=9.6
Working distance	(mm)	132.9
Optical Accuracy (1)	( $\mu\text{m}$ )	< 31
Field depth (2)	(mm)	24
CTF @ 70 lp/mm	(%)	> 50
Phase adjustment (3)		Yes

### Dimensions

Length	(mm)	352
Width	(mm)	134
Height	(mm)	118
Mass	(g)	3849
Mount		C

## NOTES

- 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.
- 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  $\mu\text{m}$
- Indicates the availability of an integrated camera phase adjustment feature.
- 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).

