TCCR12096

Bi-telecentric CORE lens for 1/2" detectors, magnification 0.068 x, C-mount



SPECIFICATIONS

Part number (8)		TCCR12096
Magnification	(x)	0.068
Image shape dimension (9)	(Ø, x mm)	Ø=8.3, x=6.8
Phase adjustment (7)		Yes

Object field of view (6)

with 1/3" detector (4.8 x 3.6 mm)	(mm × mm)	70.6 x 52.9
with 1/2.5" detector (5.70 x 4.28 mm)	(mm × mm)	83.8 x 62.9
with 1/2" detector (6.4 x 4.8 mm)	(mm × mm)	94.1 x 70.6
with 1/1.8" detector (7.13 x 5.37 mm)	(mm × mm)	100.0 x 78.9
with 2/3" - 5 MP detector (8.45 x 7.07 mm)	(mm × mm)	Ø=122, x=100

Optical specifications

(mm)	278.6 8
	8
(deg)	< 0.06 (0.08)
(%)	< 0.03 (0.10)
(mm)	145
(%)	> 45
	(mm)

Dimensions

Mount		C
A	(mm)	139
В	(mm)	172
С	(mm)	183
Mass	(g)	4224

Compatibility

LTCLCR096-x, CMHOCR096, CMPTCR096, LTCLHP096-x

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 (wF/#): 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 millirad, 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 perfectly sharp image, only half of the nominal field depth should be considered. Pixel size used for calculation is 5.5 µm.
- 6. In case the of vignetting, FOV dimensions are indicated with "Ø = , x= ", where "Ø =" stands for diameter and "x=" indicates the nominal FOV height and length (see Tech Info for related drawing).
- 7. Indicates the availability of an integrated camera phase adjustment feature.
- 8. Due to the special shape of TCCR120xx it might be necessary to check the mechanical compatibility with your camera.
- 9. Indicates the dimensions and shape of image, where "Ø =" stands for diameter and "x=" indicates the nominal image height and length (<u>Tech Info</u> for related drawing).

COMPATIBLE PRODUCTS

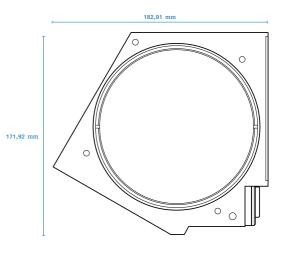


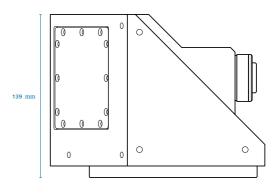
LTCLHP096-G Telecentric HP illu	minator, beam diameter 120 mm, green

LTCLHP096-R









LTCLHP096-B	Telecentric HP illuminator, beam diameter 120 mm, blue
LTCLHP096-W	Telecentric HP illuminator, beam diameter 120 mm, white
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LTCLCR096-R	Telecentric CORE illuminator, beam dimensions Ø = 120; x = 99, red
LTCLCR096-G	Telecentric CORE illuminator, beam dimensions Ø = 120; x = 99, green
LTCLCR096-W	Telecentric CORE illuminator, beam dimensions \emptyset = 120; x = 99, white
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CMHOCR096	Clamping mechanics for CORE telecentric lenses and illuminators TCCRxx96 and LTCLCR096-x



CMPTCR096 Mechanical components designed for CORE telecentric lenses and illuminators Ø 96mm