

TCCR12120

Bi-telecentric CORE lens for 2/3" detectors, magnification 0.052 x, C-mount

OPTO ENGINEERING

CARATTERISTICHE

Part number (8)		TCCR12120
Ingrandimento	(x)	0.052
Image shape dimension (9)	(\emptyset , x mm)	$\emptyset=8.2$, x=6.7
Phase adjustment (7)		Yes

Campo visivo oggetto (6)

Con sensore 1/3" (4.8 x 3.6 mm)	(mm x mm)	92.1 x 69.1
Con sensore 1/2.5" (5.70 x 4.28 mm)	(mm x mm)	109.4 x 82.0
Con sensore 1/2" (6.4 x 4.8 mm)	(mm x mm)	122.8 x 92.1
Con sensore 1/1.8" (7.13 x 5.37 mm)	(mm x mm)	128.0 x 103.3
Con sensore 2/3" - 5 MP (8.45 x 7.07 mm)	(mm x mm)	$\emptyset=157$, x=128

Specifiche ottiche

Distanza di lavoro (1)	(mm)	334.5
wF/# (2)		8
Telecentricità tipica (max) (3)	(deg)	< 0.06 (0.08)
Distorsione tipica (max) (4)	(%)	< 0.08 (0.10)
Profondità di campo (5)	(mm)	247
CTF @ 70 lp/mm	(%)	> 45

Dimensioni

Mount		C
A	(mm)	182
B	(mm)	220
C	(mm)	231
Massa	(g)	-

Compatibilità

LTCLCR096-x, CMHOCR096, CMPTCR096, LTCLHP096-x

In case of use with sensors larger than 1/1.8" please check the exact FOV dimensions with our sales engineers

NOTE

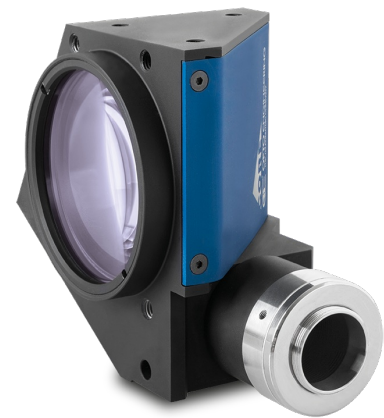
- Working distance: distance between the front end of the mechanics and the object. Set this distance within +/- 3% of the nominal value for maximum resolution and minimum distortion.
- Working F-number (wF/#): the real F-number of a lens when used as a macro. Lenses with smaller apertures can be supplied on request.
- 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.
- 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 perfectly sharp image, only half of the nominal field depth should be considered. Pixel size used for calculation is 5.5 μm .
- In case the of vignetting, FOV dimensions are indicated with " $\emptyset =$, x =", where " $\emptyset =$ " stands for diameter and "x=" indicates the nominal FOV height and length (see [Tech Info](#) for related drawing).
- Indicates the availability of an integrated camera phase adjustment feature.
- Due to the special shape of TCCR120xx it might be necessary to check the mechanical compatibility with your camera.
- 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).

PRODOTTI COMPATIBILI



Serie LTCLHP

Illuminatori telecentrici ad alte prestazioni



LTCLHP120-R	illuminatore telecentrico HP, diametro fascio luminoso 150 mm, rosso
LTCLHP120-G	illuminatore telecentrico HP, diametro fascio luminoso 150 mm, verde
LTCLHP120-W	illuminatore telecentrico HP, diametro fascio luminoso 150 mm, bianco



Serie LTCLHP CORE

illuminatori telecentrici ultracompati

LTCLCR120-R	Telecentric CORE illuminator, beam dimensions $\varnothing = 156$, $x = 130$, red, 630 nm
LTCLCR120-G	Telecentric CORE illuminator, beam dimensions $\varnothing = 156$, $x = 130$, green, 520 nm
LTCLCR120-W	Telecentric CORE illuminator, beam dimensions $\varnothing = 156$, $x = 130$, white