PRODUCT DATASHEET

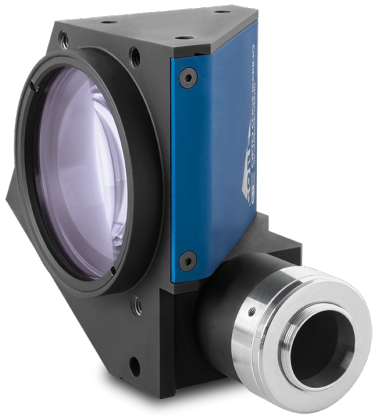
TCCR12120

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)**	(Ø, x mm)	Ø=8.2, x=6.7
Phase adjustment **(7)**		Yes



Campo visivo oggetto **(6)**

Con sensore 1/3” (4.8 x 3.6 mm)	(mm × mm)	92.1 x 69.1
Con sensore 1/2.5” (5.70 x 4.28 mm)	(mm × mm)	109.4 x 82.0
Con sensore 1/2” (6.4 x 4.8 mm)	(mm × mm)	122.8 x 92.1
Con sensore 1/1.8” (7.13 x 5.37 mm)	(mm × mm)	128.0 x 103.3
Con sensore 2/3” - 5 MP (8.45 x 7.07 mm)	(mm × mm)	Ø=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

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 (**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 ultracompatti

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