

TCCR2M048-E

Telecentric CORE lens for 1" detectors, magnification 0.268 x, M42x1 FD=16

SPECIFICATIONS

Part number		TCCR2M048-E
Magnification	(×)	0.268
Image shape dimension (8)	(Ø, x mm)	Ø=16.1, x=13.9
Phase adjustment (7)		Yes
Object field of view 7		
with IMX174/IMX249 13.3 mm diag w x h 11.35 x 7.13	(mm x mm)	42.2 x 26.5
with KAI-2020 14.8 mm diagonal w x h 11.84 x 8.88	(mm x mm)	44.2 x 33.1
with IMX253/IMX304 17.6 mm diag w x h 14.16 x 10.37	(mm x mm)	Ø=60, x=39
with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2	(mm x mm)	Ø=60, x=52
with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6	(mm x mm)	Ø=60, x=51

Optical specifications Working distance (1)

C

Mass

NOTES

Compatibility

Last update: 2019-06-17

Working distance (1)	(11111)	155.4
wF/# (2)		16
Telecentricity typical (max) (3)	(deg)	< 0.08 (0.10)
Distortion typical (max) (4)	(%)	< 0.08 (0.10)
Field depth (5)	(mm)	18.4
CTF@ 50 lp/mm	(%)	> 30
Mechanical specifications		
Mount (6)		M42x1 FD16.00
A	(mm)	77
В	(mm)	112

133.4

170

1267

(mm)

(g)

(mm)



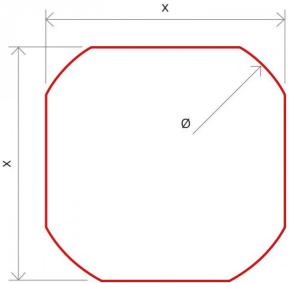


Image shape dimensions (Ø, x)

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only.

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.
З	Maximum slope of chief rays inside the lens, when converted to milliradians, it gives the maximum

- Maximum slope of chief rays inside the lens: when converted to milliradians, 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 " \emptyset = , x= ", where " \emptyset =" stands for diameter and "x=" indicates the nominal FOV height and length (see <u>Tech Info</u> for related drawing).
- 7. Indicates the availability of an integrated camera phase adjustment feature.

LTCLCR048-x, CMHOCR048, CMPTCR048, LTCLHP048-x

 Indicates the dimensions and shape of image, where "Ø =" stands for diameter and "x=" indicates the nominal image height and length (see <u>Tech Info</u> for related drawing)

COMPATIBLE PRODUCTS

Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® technical support department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of a compatible product.



High-performance telecentric illuminators

TCLHP048-W Telecentric HP illuminator, beam diameter 60 mm, white Image: Compact telecentric illuminators Utra compact telecentric illuminators TCLCR048-R Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, red TCLCR048-G Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white TCLCR048-W Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white TCLCR048-W Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white TCLCR048-W Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white TCLCR048-W Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white TCLCR048-W Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white TCLCR048-W Continuos LED backlight, 114x114 illumination area, white TBC114114-G Continuos LED backlight, 114x114 illumination area, white TCLCR048 Clamping mechanics CMHOR series Clamping mechanics for CORE telecentric lenses and illuminators TCCRox48 and LTCLCR048-x TCLCR048 CORF series CORF series mounting plates CORE series mounting plates TrmvBF3-2024 USB3 Vision camera with Sony Pregius CMOS sensor IMX249 TrmvBF3-2024 USB3 Vision camera with Sony Pregius CMOS sensor IMX247 Trm	TCLHP048-G Telecentric HP illuminator, beam diameter 60 mm, green TCLHP048-B Telecentric HP illuminator, beam diameter 60 mm, blue TCLHP048-W Telecentric HP illuminator, beam diameter 60 mm, white ITCLHP048-W Telecentric HP illuminator, beam diameter 60 mm, white ITCLHP048-W Telecentric CORE series Ultra compact telecentric illuminator, beam dimensions Ø = 56; x = 50, red TCLCR048-R Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, green TCLCR048-G Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, green TCLCR048-W Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white Ital continuos LED backlight Telecentric CORE illuminator, beam dimensions Ø = 56; x = 50, white TEC114114-W Continuos LED backlight, 114x114 illumination area, white
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Software library & stand-alone tools for the optimization of telecentric setups

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20MP, 26MP and 29MP area scan cameras for high-speed applications

COE-200-M-POE-070-IR-C	HR Area Scan camera IMX183, CMOS, Rolling shutter, 5472 × 3648, 20.4 MP, 2.4 pix, 1", Gray, GigE, 6 fps, POE, C - mount, Glass filter
COE-200-C-POE-070-IR-C	HR Area Scan camera IMX183, CMOS, Rolling shutter, 5472 × 3648, 20.4 MP, 2.4 pix, 1", Color, GigE, 6 fps, POE, C - mount, Infrared cut filter
COE-200-M-USB-070-IR-C	HR Area Scan camera IMX183, CMOS, Rolling shutter, 5472 × 3648, 20.4 MP, 2.4 pix, 1", Gray, 14 fps, C - mount, Glass filter
COE-200-C-USB-070-IR-C	HR Area Scan camera IMX183, CMOS, Rolling shutter, 5472 × 3648, 20.4 MP, 2.4 pix, 1", Color, 14 fps, C - mount, Infrared cut filter