

# TCCR1M080-C

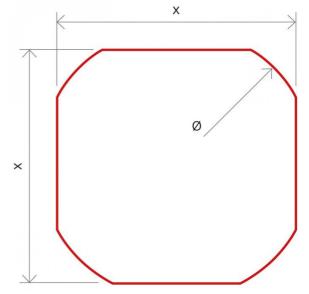
# Telecentric CORE lens for 1/1.2" detectors, magnification 0.134 x, mount C, WD=226.8

### SPECIFICATIONS

Part number		TCCR1MHR080-C
Magnification	(X)	0.134
Image shape dimension (8)	(Ø, x mm)	Ø=13.4, x=11.5
Phase adjustment (7)		Yes
Object field of view7		
with IMX174/IMX249 13.3 mm diag w x h 11.35 x 7.13	(mm x mm)	84.3 x 53.0
with KAI-2020 14.8 mm diagonal w x h 11.84 x 8.88	(mm x mm)	84.3 x 53.0
with IMX253/IMX304 17.6 mm diag w x h 14.16 x 10.37	(mm x mm)	Ø=100, x=78
with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2	(mm x mm)	Ø=100, x=86
with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6	(mm x mm)	Ø=100, x=86
Optical specifications		

Working distance (1)	(mm)	226.8
wF/# (2)		8
Telecentricity typical (max) (3)	(deg)	< 0.08 (0.10)
Distortion typical (max) (4)	(%)	< 0.08 (0.10)
Field depth (5)	(mm)	36.8
CTF@ 50 lp/mm	(%)	> 50
Mechanical specifications		
Mechanical specifications Mount (6)		С
	(mm)	C 119
Mount (6)	(mm)	
Mount (6) A		119





Last update: 2019-05-10

#### NOTES

{compatibility}

- 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.
- 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.
- 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.
- 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.

Image shape dimensions ( $\emptyset$ , 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.



LTCLHP CORE series

Ultra compact telecentric illuminators

TCLCR080-R	Telecentric CORE illuminator, beam dimensions $\emptyset$ = 98; x = 90, red
TCLCR080-G	Telecentric CORE illuminator, beam dimensions $\emptyset$ = 98; x = 90, green
TCLCR080-W	Telecentric CORE illuminator, beam dimensions Ø = 98; x = 90, white
СМН	IOCR series
Clan	ping mechanics CORE series
	lamping mechanics for CORE telecentric lenses and illuminators TCCRxx80 and TCLCR080-x
	series
Prec	ision alignment mechanics
CMTHCR080	Precision alignment mechanics for CORE telecentric optics 080;
AVA COE	G series
Gen	Cam® PoE cameras
COE-023-M-POE-	050-IR-C Area Scan camera PYTHON 2000, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 4.8 pix, 2/3", Gray, 51 fps, GigE, POE, C - mount, Glass filter
COE-023-C-POE-(	D50-IR-CArea Scan camera PYTHON 2000, CMOS, Global shutter, 1920 x 1200, 2.3MP, 4.8 pix, 2/3", Color, 51 fps, GigE, POE, C - mount, Infrared cut filter
COE-050-M-POE-	050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 23.5 fps, GigE, POE, C - mount, Glass filter
COE-050-C-POE-(	50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 23.5 fps, GigE, POE, C - mount, Infrared cut filter
COE-023-M-POE-	
	060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter
	pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter
COE-023-C-POE-(	pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter 260-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter
COE-023-C-POE-(	pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter Moo-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86
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COE-023-C-POE-C	pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter U series 3.0 GenICam® cameras 050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter
COE-023-C-POE-C COE USB COE-050-M-USB-	pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter U series 3.0 GenICam® cameras 050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter 050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter
COE-023-C-POE-0 COE USB COE-050-M-USB- COE-050-C-USB-0	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>U series</li> <li>3.0 GenICam® cameras</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>D50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>O60-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>O60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> </ul>
COE-023-C-POE-( USB COE-050-M-USB- COE-050-C-USB-( COE-023-M-USB- COE-023-C-USB-(	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>U series</li> <li>3.0 GenlCam® cameras</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>D50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> </ul>
COE-023-C-POE-0 USB COE-050-M-USB- COE-050-C-USB-0 COE-023-M-USB-0 COE-023-C-USB-0 mvB	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>U series</li> <li>3.0 GenICam® cameras</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>O60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>O60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>IueFOX3-2 series</li> </ul>
COE-023-C-POE-0 USB COE-050-M-USB- COE-050-C-USB-0 COE-023-M-USB-0 COE-023-C-USB-0 mvB	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>U series</li> <li>3.0 GenlCam® cameras</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>D50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> </ul>
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COE-023-C-POE-C USB COE-050-M-USB- COE-050-C-USB-C COE-023-M-USB- COE-023-C-USB-C COE-023-C-USB-C USB: USB: RT-mvBF3-2051a	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>U series</li> <li>3.0 GenlCam® cameras</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>D50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>D60-IR-C Area Scan camera IMX264, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>D60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>IueFOX3-2 series</li> <li>3 vision camera with Sony Pregius CMOS sensors</li> </ul>
COE-023-C-POE-0 USB COE-050-M-USB- COE-050-C-USB-0 COE-023-C-USB-0 COE-023-C-USB-0 USB: mvB USB: RT-mvBF3-2051a RT-mvBF3-2051	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>U series</li> <li>3.0 GenlCam® cameras</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>O60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>O60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>D60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>USB3 Vision camera with Sony Pregius CMOS sensor IMX250</li> </ul>
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COE-023-C-POE-0 USB COE-050-M-USB- COE-050-C-USB-0 COE-023-C-USB-0 COE-023-C-USB-0 COE-023-C-USB-0 COE-023-C-USB-0 RT-mvBF3-2051a RT-mvBF3-2024a RT-mvBF3-2024	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>U series</li> <li>3.0 GenlCam® cameras</li> <li>O50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>D50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>D50-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>D60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>D60-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>D60-IR-C Area Scan camera IMX249, CMOS, Sensor IMX264</li> <li>USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>USB3 Vision camera with Sony Pregius CMOS sensor IMX249</li> </ul>
COE-023-C-POE-C USB COE-050-M-USB- COE-050-C-USB-C COE-023-M-USB- COE-023-C-USB-C COE-023-C-USB-C COE-023-C-USB-C USB RT-mvBF3-2051a RT-mvBF3-2051a RT-mvBF3-2051a RT-mvBF3-2024a RT-mvBF3-2024	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>260-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>-U series</li> <li>3.0 GenlCam® cameras</li> <li>2050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>2050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>2050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>2060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>260-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>260-IR-C Area Scan camera IMX249, CMOS sensor IMX264 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX249</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX249</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX249</li> </ul>
COE-023-C-POE-C USB COE-050-M-USB- COE-050-C-USB-C COE-023-M-USB- COE-023-C-USB-C COE-023-C-USB-C COE-023-C-USB-C USB RT-mvBF3-2051a RT-mvBF3-2051a RT-mvBF3-2051a RT-mvBF3-2024a RT-mvBF3-2024	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>260-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>-U series</li> <li>3.0 GenlCam® cameras</li> <li>250-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>250-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>260-IR-C Area Scan camera IMX264, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>260-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>260-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>260-IR-C Area Scan camera IMX249, CMOS sensors</li> <li>260-IR-C USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX249</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>260-USB3 Vision camera with Sony Pregius CMOS sensor IMX249</li> <li>260-USB3 Vision camera S</li> </ul>
COE-023-C-POE-( USB COE-050-M-USB- COE-050-C-USB-( COE-023-C-USB-( COE-023-C-USB-( COE-023-C-USB-( COE-023-C-USB-( USB: COE-023-C-USB-( USB: RT-mvBF3-20511 RT-mvBF3-20511 RT-mvBF3-20244 QSB: RT-mvBF3-2024 RT-mvBF3-2024	<ul> <li>pix, 1/1.2", Gray, 41 fps, GigE, POE, C - mount, Glass filter</li> <li>2060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 41 fps, GigE, POE, C - mount, Infrared cut filter</li> <li>20 series</li> <li>3.0 GenlCam® cameras</li> <li>2050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>2050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Glass filter</li> <li>2050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 35 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>2060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Glass filter</li> <li>2060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Gray, 41 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>2060-IR-C Area Scan camera IMX249, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 5.86 pix, 1/1.2", Color, 40 fps, USB 3.0, C - mount, Infrared cut filter</li> <li>2060-IR-C Area Scan camera With Sony Pregius CMOS sensor IMX264</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX279</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX249</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>20583 Vision camera sensor Pregius CMOS sensor IMX264</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>20583 Vision camera with Sony Pregius CMOS sensor IMX264</li> <li>2056, sensor name IMX264, sensor type CMOS</li> </ul>



#### TCLIB Suite

Software library & stand-alone tools for the optimization of telecentric setups

TCLIB-01 Software library & stand-alone tools for the optimization of telecentric setups