

TC3MHR120-C

High resolution telecentric lens for 1.1" detectors, magnification 0.118x, C-mount

SPECIFICATIONS

Magnification	(x)	0.118
Image circle Ø	(mm)	17.6
Object field of view 8	(mn	n x mm or Ø)
with IMX174/IMX249 13.3 mm diag w x h 11.35 x 7.13		96.14 x 60.39
with IMX255/IMX267 16.1 mm diag w x h 14.19 x 7.51		120.25 x 63.64
with IMX253/IMX304 17.6 mm diag w x h 14.16 x 10.37		119.99 x 87.89
with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2		Ø = 128.43
with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6(7)		Ø = 115.22



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.

Optical specifications

Working distance (1)	(mm)	334.6
wF/# (2)		8
Telecentricity typical (max) (3)	(deg)	<0.08 (0.10)
Distortion typical (max) (4)	(%)	<0.08 (0.10)
Field depth (5)	(mm)	43.1
CTF@ 50 lp/mm	(%)	> 55

Mechanical specifications

Mount		С
Phase adjustment(9)		Yes
Length (6)	(mm)	440.4
Diameter	(mm)	180
Mass	(g)	4714
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Last update: 2018-06-12

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 (higher wF#) 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. Measured from the front end of the mechanics to the camera flange.
- 7. With KAI-08050 (22.6 mm diagonal) detectors, the FOV of TC4MHRyyy-x lenses may show some vignetting at the image corners.
- For the fields with the indication "Ø =", the image of a circular object of such diameter is fully inscribed into the detector.
- 9. Indicates the availability of an integrated camera phase adjustment feature

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

LTCLHP120-R

1	LTCLHP CORE	series
	Ultra compact	telecentric illuminators
TCLCR120	-R Telecent	ric CORE illuminator, beam dimensions Ø = 156, x = 130, red, 630 nm
TCLCR120	-G Telecent	ric CORE illuminator, beam dimensions Ø = 156, x = 130, green, 520 nm
TCLCR120	-W Telecent	ric CORE illuminator, beam dimensions \emptyset = 156, x = 130, white
0	LTRNST series	
	LED ring illum	inators - straight type
TRN120RD	Ring LED	illuminator, inner diameter 180 mm, straight type, red 630 nm
TRN120GF	R Ring LED	illuminator, inner diameter 180 mm, straight type, green 525 nm
TRN120BL	0	illuminator, inner diameter 180 mm, straight type, blue 470 nm
TRN120NV	N Ring LED	illuminator, inner diameter 180 mm, straight type, white
同	LTBC series	
4440	Continuos LEE) backlight
	Continuos EEE	, occupie
TBC17417	4-W Co	ntinuos LED backlight, 174x174 illumination area, white
TBC17417	4-G Co	ntinuos LED backlight, 174x174 illumination area, green
0.0		
	CMHO series	
	Clamping med	hanics
MHO120	COE-G series	echanics for TCxx110, TCxx120 lenses and LTCLHP120-X illuminators
	COE-G series GenlCam® Po	E cameras
COE-053-M	COE-G series GenlCam® Po -POE-070-IR-C	E cameras Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Gray, 22 fps, GigE, POE, C - mount, Glass filter
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0E-053-M 0E-053-C- 0E-089-M 0E-089-C- 0E-123-M 0E-123-C-	COE-G series GenlCam® Po -POE-070-IR-C POE-070-IR-C -POE-070-IR-C POE-070-IR-C	E cameras Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Gray, 22 fps, GigE, POE, C - mount, Glass filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Color, 22 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 13 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 13 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45
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COE-053-M COE-053-C- COE-089-M COE-089-C- COE-123-C- COE-123-C- COE-123-C- COE-123-C- COE-123-C-	COE-G series GenlCam® Po -POE-070-IR-C POE-070-IR-C -POE-070-IR-C POE-080-IR-C POE-080-IR-C COE-U series USB 3.0 GenlC	E cameras Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Gray, 22 fps, GigE, POE, C - mount, Glass filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Color, 22 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 13 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 13 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Color, 9.4 fps, GigE, POE, C - mount, Infrared cut filter
©E-053-M ©E-053-C- ©E-089-M ©E-089-C- ©E-123-M ©E-123-C- ©E-053-M ©E-053-C-	COE-G series GenICam® Po -POE-070-IR-C POE-070-IR-C -POE-070-IR-C POE-080-IR-C POE-080-IR-C COE-U series USB 3.0 GenIC -USB-070-IR-C	E cameras Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Gray, 22 fps, GigE, POE, C - mount, Glass filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Color, 22 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 13 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 13 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Color, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Color, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Gray, 60 fps, USB 3.0, C - mount, Glass filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Gray, 60 fps, USB 3.0, C - mount, Glass filter
CE-053-M COE-053-C- COE-089-C- COE-089-C- COE-089-C- COE-123-C- COE-123-C- COE-053-C- COE-053-C- COE-053-C-	COE-G series GenlCam® Po -POE-070-IR-C POE-070-IR-C -POE-070-IR-C POE-070-IR-C -POE-080-IR-C POE-080-IR-C COE-U series USB 3.0 GenIC -USB-070-IR-C	E cameras Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Gray, 22 fps, GigE, POE, C - mount, Glass filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Color, 22 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 13 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 13 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Color, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Color, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Gray, 60 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Color, 30 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Color, 30 fps, USB 3.0, C - mount, Infrared cut filter
Image: Colored system Image: Colored system <td< td=""><td>COE-G series GenlCam® Po -POE-070-IR-C POE-070-IR-C -POE-070-IR-C POE-070-IR-C -POE-080-IR-C POE-080-IR-C COE-U series USB 3.0 GenlC -USB-070-IR-C USB-070-IR-C</td><td>E cameras Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Gray, 22 fps, GigE, POE, C - mount, Glass filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Color, 22 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 13 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 13 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Color, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Gray, 60 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Color, 30 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 32 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Glor, 32 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 32 fps, USB 3.0, C - mount, Infrared cut filter</td></td<>	COE-G series GenlCam® Po -POE-070-IR-C POE-070-IR-C -POE-070-IR-C POE-070-IR-C -POE-080-IR-C POE-080-IR-C COE-U series USB 3.0 GenlC -USB-070-IR-C USB-070-IR-C	E cameras Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Gray, 22 fps, GigE, POE, C - mount, Glass filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 2048, 5.3 MP, 4.8 pix, 1", Color, 22 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 13 fps, GigE, POE, C - mount, Glass filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 13 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Gray, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera IMX304, CMOS, Global shutter, 4096 x 3000, 12.3 MP, 3.45 pix, 1.1", Color, 9.4 fps, GigE, POE, C - mount, Infrared cut filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Gray, 60 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera PYTHON 5000, CMOS, Global shutter, 2592 x 1944, 5 MP, 4.8 pix, 1", Color, 30 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Gray, 32 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Glor, 32 fps, USB 3.0, C - mount, Infrared cut filter Area Scan camera IMX267, CMOS, Global shutter, 4096 x 2160, 8.8 MP, 3.45 pix, 1", Color, 32 fps, USB 3.0, C - mount, Infrared cut filter
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RT-mvBF3-2089a	USB3 Vision camera with Sony Pregius CMOS sensor IMX267
RT-mvBF3-2089	USB3 Vision camera with Sony Pregius CMOS sensor IMX255
RT-mvBF3-2124a	USB3 Vision camera with Sony Pregius CMOS sensor IMX304
RT-mvBF3-2124	USB3 Vision camera with Sony Pregius CMOS sensor IMX253

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GigE & Dual GigE Vision cameras

mvBlueCOUGAR series

RT-mvBC-X109b	Camera with interface GigE (1GB/s), sensor size 1", mpixel 8.95, resolution 4112 x
	2176, sensor name IMX267, sensor type CMOS
RT-mvBC-XD109b	Camera with interface Dual GigE (2GB/s), sensor size 1", mpixel 8.95, resolution
	4112 X 2176, sensor name IMX267, sensor type CMOS
RT-mvBC-X1012b	Camera with interface GigE (1GB/s), sensor size 1.1", mpixel 12.37, resolution 4112
	x 3008, sensor name IMX304, sensor type CMOS
RT-mvBC-XD107	Camera with interface Dual GigE (2GB/s), sensor size 1.1", mpixel 7.1, resolution
	3216 x 2208, sensor name IMX420, sensor type CMOS
RT-mvBC-XD1012b	Camera with interface Dual GigE (2GB/s), sensor size 1.1", mpixel 12.37, resolution
	4112 x 3008, sensor name IMX304, sensor type CMOS

COE HR AS-X series

 $20 \ensuremath{\mathsf{MP}}\xspace$ and $29 \ensuremath{\mathsf{MP}}\xspace$ 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