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OPTO ENGINEERING

LTCLCR080-R

Telecentric CORE illuminator, beam dimensions \emptyset = 98; x = 90, red

SPECIFICATIONS

Optical	specifications
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Minimum beam shape dimension (7)	(mm)	Ø = 98; x = 90
Working distance range	(mm)	150 - 300
Light color, peak wavelength (5)		red, 630 nm
Electrical specifications		
Device power ratings		
DC voltage minimum(1)	(V)	12
DC voltage maximum(1)	(V)	24
Power consumption	(W)	< 2.5
Max LED forward current (2)	(mA)	350
LED power ratings		
Forward voltage (typical) (3)	(V)	2.4

Mechanical specifications

Forward voltage (max) (3)

Max pulse current (4)

<u> </u>		
A	(mm)	119
В	(mm)	145
C (6)	(mm)	198
Mass	(g)	2919

(V)

(mA)

3.00

2000

Eye safety

Lyc salety	
Risk group according to CEI EN 62471:2010	Exempt
Last update: 2021-06-22	

NOTES

- 1. Tolerance ±10%
- $\ \ \, \hbox{ \begin{tabular}{ll} 2. \\ \hline \end{tabular} \ \, \hbox{ \begin{tabular}{ll} 4. \\ \hline \end{tabular}} \ \, \hbox{ \end{tabular} \begin{tabular}{ll} 4. \\ \hline \end{tabular} \ \, \hbox{ \end{tabular}} \ \, \hbox{ \end{tab$
- 3. At max forward current. Tolerance is $\pm 0.06 \text{V}$ on forward voltage measurements.
- 4. At pulse width <= 10 ms, duty cycle <= 10% condition. Built-in electronics board must be bypassed (see tech info).
- $5. \ \, {\rm Opto} \, \, {\rm Engineering}^{\, @} \, {\rm recommends} \, {\rm green} \, {\rm light} \, {\rm for} \, {\rm high} \, {\rm precision} \, {\rm measurement} \, {\rm applications}. \\$
- 6. Nominal value, with no spacers in place.
- 7. Beam shape is not circular. See $\underline{\text{Tech Info}}$ for minimun beam dimensions.

COMPATIBLE PRODUCTS

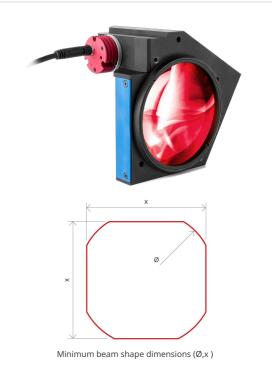
Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® technical support department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of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



TC series

Bi-telecentric lenses for sensors up to 2/3"

TC13080	Bi-telecentric lens for 1/3" detectors, magnification 0.059 x, C-mount
TC12080	Bi-telecentric lens for 1/2" detectors, magnification 0.080 x, C-mount
TC23080	Bi-telecentric lens for 2/3" detectors, magnification 0.110 x, C-mount



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.



Compact bi-telecentric lenses for sensors up to 2/3"

TCCR12080 Bi-telecentric CORE lens for 1/2" detectors, magnification 0.080 x, C-mount TCCR23080 Bi-telecentric CORE lens for 2/3" detectors, magnification 0.110 x, C-mount



TCSM series

3D bi-telecentric lenses with Scheimpflug adjustment

TCSM080

3D bi-telecentric lens with Scheimpflug adjustment



TCZR series

8x bi-telecentric zoom lenses with motorized controls

TCZR072 Bi-telecentric zoom with motorized controls, magnification 0.125x to 1x, for detectors up to 2/3"



TCZRS series

Bi-telecentric zoom lenses with motorized control

TCZR072S

Bi-telecentric zoom with motorized controls, magnification 0.125x to 1x, for detectors up to



TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

TCCR1M080-C	Telecentric CORE lens for 1/1.2" detectors, magnification 0.134 x, mount C, WD=226.8
TCCR2M080-C	Telecentric CORE lens for 1" detectors, magnification 0.160 x, C-mount
TCCR2M080-E	Telecentric CORE lens for 1" detectors, magnification 0.160 x, M42x1 FD=16
TCCR3M080-C	Telecentric CORE lens for 1.1" detectors, magnification 0.182 x, mount C, WD=226.8
TCCR4M080-C	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, C-mount
TCCR4M080-F	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, F-mount
TCCR4M080-E	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, M42x1 FD=16



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR080-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.134x, C-mount
TC2MHR080-C	High resolution telecentric lens for 1" detectors, magnification 0.160x, C-mount
TC2MHR080-F	High resolution telecentric lens for 1" detectors, magnification 0.160x, F-mount
TC2MHR080-E	High resolution telecentric lens for 1" detectors, magnification 0.160x, mount M42X1 FD=16 $$
TC3MHR080-C	High resolution telecentric lens for 1.1" detectors, magnification 0.182x, C-mount
TC4MHR080-C	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, C-mount
TC4MHR080-F	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, F-mount
TC4MHR080-E	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, mount M42X1 FD=16



TC16M series

Telecentric lenses for sensors up to 43.3 mm and 8k line scan cameras

TC16M080 Telecentric lens for 35 mm detectors, magnification 0.463 x, F-mount TC16M080-Q Telecentric lens for 35 mm detectors, magnification 0.463 x, mount M58x0.75 FD = 6.56



TC12K series

Telecentric lenses for sensors up to 62 mm and 12k line scan cameras

Telecentric lens for 12k and 16k line scan cameras, magnification 0.698 x, M72 x 0.75



TC12M series

Telecentric lenses for sensors up to APS-H and 4k line scan cameras

TC12M080-F High resolution telecentric lenses, magnification 0.376, WD 199.0, F mount

TC12M080-J High resolution telecentric lenses, magnification 0.376, WD 199.1, M42x1 FD12



LTSCHP series

High-performance replacement LED modules

LTSCHP1W-R

Replacement LED module, red



LTDV series

LED lighting strobe controllers

LTDV1CH-17V

Strobe controller 1 channel variable current 5 mA - 17A



CMHOCR series

Clamping mechanics for CORE lenses

CMHOCR080

Clamping mechanics for CORE telecentric lenses and illuminators TCCRxx80 and LTCLCR080-x



PS series

Power supplies

RT-SDR-120-24

24VDC DIN rail power supply



Mounting plates for CORE optical benches

 ${\tt CMPTCR080} \quad {\tt Mechanical\ components\ designed\ for\ CORE\ telecentric\ lenses\ and\ illuminators\ \emptyset\ 80mm$



CB series

Cables

CB244P1500 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels

CB244P1500L

Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels



CMT series

Precision alignment mechanics for lenses

CMTHCR080

Precision alignment mechanics for CORE telecentric optics 080



LTIC series

LED lighting controllers

LTIC1CH-A1-4	Analogue lighting controller unit, 4A, 24V
LTIC1CH-D1-4	Digital lighting controller unit, 4A, 24V
LTICOBUL1000CH1-24VUSTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m
LTICOBUL1000CH1-24VEUTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m
LTICOBUL1000CH1-24VUKTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m