

LTCLCR056-R

Telecentric CORE illuminator, beam dimensions $\varnothing = 74$; $x = 66$, red

SPECIFICATIONS

Optical specifications

Minimum beam shape dimension (7)	(mm)	$\varnothing = 74$; $x = 66$
Working distance range	(mm)	100 - 200
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
Forward voltage (max) (3)	(V)	3.00
Max pulse current (4)	(mA)	2000

Mechanical specifications

A	(mm)	94
B	(mm)	110
C (6)	(mm)	172
Mass	(g)	1449

Eye safety

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

NOTES

1. Tolerance $\pm 10\%$
2. Used in continuous (not pulsed) mode.
3. At max forward current. Tolerance is $\pm 0.06V$ on forward voltage measurements.
4. At pulse width ≤ 10 ms, duty cycle $\leq 10\%$ condition. Built-in electronics board must be bypassed (see tech info).
5. Opto Engineering® recommends green light for high precision measurement applications.
6. Nominal value, with no spacers in place.
7. Beam shape is not circular. See [Tech Info](#) for minimum beam dimensions.

COMPATIBLE PRODUCTS

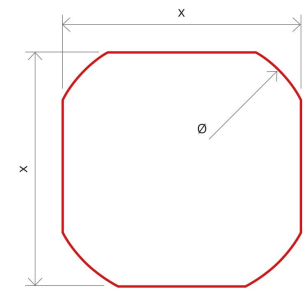
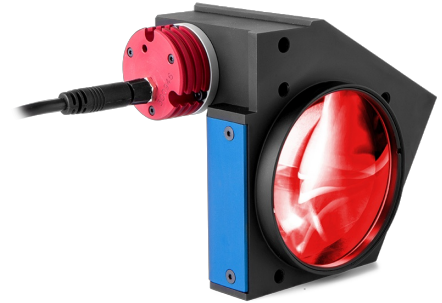
Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® technical support department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of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



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

TC13056	Bi-telecentric lens for 1/3" detectors, magnification 0.084 x, C-mount
TC12056	Bi-telecentric lens for 1/2" detectors, magnification 0.114 x, C-mount
TC23056	Bi-telecentric lens for 2/3" detectors, magnification 0.157 x, C-mount

TC CORE series



Minimum beam shape dimensions (\varnothing, 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.



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

TCCR12056 Bi-telecentric CORE lens for 1/2" detectors, magnification 0.114 x, C-mount

TCCR23056 Bi-telecentric CORE lens for 2/3" detectors, magnification 0.157 x, C-mount



TCSM series

3D bi-telecentric lenses with Scheimpflug adjustment

TCM056 3D bi-telecentric lens with Scheimpflug adjustment



TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

TCCR1M056-C Telecentric CORE lens for 1/1.2" detectors, magnification 0.190 x, mount C, WD=157.8

TCCR2M056-C Telecentric CORE lens for 1" detectors, magnification 0.228 x, C-mount

TCCR2M056-E Telecentric CORE lens for 1" detectors, magnification 0.228 x, M42x1 FD=16

TCCR3M056-C Telecentric CORE lens for 1.1" detectors, magnification 0.259 x, mount C, WD=157.8

TCCR4M056-C Telecentric CORE lens for 4/3" detectors, magnification 0.314 x, C-mount

TCCR4M056-F Telecentric CORE lens for 4/3" detectors, magnification 0.314 x, F-mount

TCCR4M056-E Telecentric CORE lens for 4/3" detectors, magnification 0.314 x, M42x1 FD=16



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR056-C High resolution telecentric lens for 1/1.2" detectors, magnification 0.190x, C-mount

TC2MHR056-C High resolution telecentric lens for 1" detectors, magnification 0.228x, C-mount

TC2MHR056-F High resolution telecentric lens for 1" detectors, magnification 0.228x, F-mount

TC2MHR056-E High resolution telecentric lens for 1" detectors, magnification 0.228x, mount M42X1 FD=16

TC3MHR056-C High resolution telecentric lens for 1.1" detectors, magnification 0.259x, C-mount

TC4MHR056-C High resolution telecentric lens for 4/3" detectors, magnification 0.314x, C-mount

TC4MHR056-F High resolution telecentric lens for 4/3" detectors, magnification 0.314x, F-mount

TC4MHR056-E High resolution telecentric lens for 4/3" detectors, magnification 0.314x, mount M42X1 FD=16



TC16M series

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

TC16M056 Telecentric lens for 35 mm detectors, magnification 0.641 x, F-mount

TC16M056-Q Telecentric lens for 35 mm detectors, magnification 0.641 x, mount M58x0.75 FD =6.56



TC12M series

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

TC12M056-F High resolution telecentric lenses, magnification 0.531, WD 136.5, F mount

TC12M056-J High resolution telecentric lenses, magnification 0.531, WD 136.6, 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

CMHOCR056 Clamping mechanics for CORE telecentric lenses and illuminators TCCRxx56 and LTCLCR056-x



PS series

Power supplies

RT-SDR-120-24

24VDC DIN rail power supply



CMPTCR series

Mounting plates for CORE optical benches

CMPTCR056 Mechanical components designed for CORE telecentric lenses and illuminators Ø 56mm



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



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
