OPTO ENGINEERING

LTCLCR048-W

Telecentric CORE illuminator, beam dimensions \emptyset = 56; x = 50, white

SPECIFICATIONS

Ontical	specifications

optical specifications		
Minimum beam shape dimension (7)	(mm)	Ø = 56; x = 50
Working distance range	(mm)	90 - 180
Light color, peak wavelength (5)		white
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)	2.78
Forward voltage (max) (3)	(V)	n.a.

Mechanical specifications

Max pulse current (4)

A	(mm)	77
В	(mm)	106
C (6)	(mm)	162
Mass	(g)	1019

(mA)

2000

Eye safety

Eye Salety	
Risk group according to CEI EN 62471:2010	Risk group 1
Last update: 2021-06-22	

NOTES

- 1. Tolerance ±10%
- 2. Used in continuous (not pulsed) mode.
- 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.

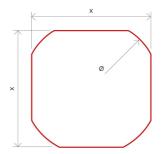


TC series

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

TC13048	Bi-telecentric lens for 1/3" detectors, magnification 0.098 x, C-mount
TC12048	Bi-telecentric lens for 1/2" detectors, magnification 0.134 x, C-mount
TC23048	Bi-telecentric lens for 2/3" detectors, magnification 0.184 x, C-mount
TC13056	Bi-telecentric lens for 1/3" detectors, magnification 0.084 ×, C-mount
TC12056	Bi-telecentric lens for 1/2" detectors, magnification 0.114 x, C-mount





Minimum beam 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.



TC CORE series

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

TCCR12048 Bi-telecentric CORE lens for 1/2" detectors, magnification 0.134 x, C-mount TCCR23048 Bi-telecentric CORE lens for 2/3" detectors, magnification 0.184 x, C-mount



3D bi-telecentric lenses with Scheimpflug adjustment

TCSM048 3D bi-telecentric lens with Scheimpflug adjustment



TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

TCCR1M048-C	Telecentric CORE lens for 1/1.2" detectors, magnification 0.222 x, mount C, WD=132.4
TCCR2M048-C	Telecentric CORE lens for 1" detectors, magnification 0.268 x, C-mount
TCCR2M048-E	Telecentric CORE lens for 1" detectors, magnification 0.268 x, M42x1 FD=16
TCCR3M048-C	Telecentric CORE lens for 1.1" detectors, magnification 0.303 x, mount C, WD=132.9
TCCR4M048-C	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, C-mount
TCCR4M048-F	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, F-mount
TCCR4M048-E	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, M42x1 FD=16



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR048-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.222x, C-mount
TC2MHR048-C	High resolution telecentric lens for 1" detectors, magnification 0.268x, C-mount
TC2MHR048-F	High resolution telecentric lens for 1" detectors, magnification 0.268x, F-mount
TC2MHR048-E	High resolution telecentric lens for 1" detectors, magnification 0.268x, mount M42X1 FD=16 $$
TC3MHR048-C	High resolution telecentric lens for 1.1" detectors, magnification 0.303x, C-mount
TC4MHR048-C	High resolution telecentric lens for 4/3" detectors, magnification 0.369x, C-mount
TC4MHR048-F	High resolution telecentric lens for 4/3" detectors, magnification 0.369x, F-mount
TC4MHR048-E	High resolution telecentric lens for 4/3" detectors, magnification 0.369x, mount M42X1 FD=16



TC16M series

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

TC16M048	Telecentric lens for 35 mm detectors, magnification 0.751 x, F-mount
TC16M048-Q	Telecentric lens for 35 mm detectors, magnification 0.751 x, mount M58x0.75 FD =6.56



TC12M series

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

TC12M048-F	High resolution telecentric lenses, magnification 0.635, WD 131.1, F mount
TC12M048-J	High resolution telecentric lenses, magnification 0.635, WD 131.2, M42x1 FD12



CMHO series

Clamping mechanics for lenses

CMHORBCR048

Clamping mechanics robotics



LTSCHP series

High-performance replacement LED modules

LTSCHP1W-W

Replacement LED module, white



LTDV series

LTDV1CH-17V

Strobe controller 1 channel variable current 5 mA - 17A



CMHOCR series

Clamping mechanics for CORE lenses

 ${\tt CMHOCR048} \quad {\tt Clamping\ mechanics\ for\ CORE\ telecentric\ lenses\ and\ illuminators\ TCCRxx48\ and}$ LTCLCR048-x

Mechanical components designed for CORE telecentric lenses and illuminators \emptyset 48mm



Mounting plates for CORE optical benches



CMPTCR048

PS series

Power supplies

RT-SDR-120-24

24VDC DIN rail power supply



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