

# LTCLCR064-R

Telecentric CORE illuminator, beam diameter 80 mm, red

## SPECIFICATIONS

### Optical specifications

Beam diameter	(mm)	80
Working distance range	(mm)	120 - 240
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)	101
B	(mm)	122
C (6)	(mm)	179
Mass	(g)	1832

### Compatible telecentric lenses

Compatibility	TCCRxx064, CMHOCR064, CMPTCR064, TCCR2M064-x, TCCR4M064-x, TCxx064, TCxMHR0564-x, TC16M064, TC16M064-Q, TC12K064
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## 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  $\leq 10$  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.

## COMPATIBLE PRODUCTS



TC series  
Bi-telecentric lenses for matrix detectors up to 2/3"

<a href="#">TC13064</a>	Bi-telecentric lens for 1/3" detectors, magnification 0.074 x, C-mount
<a href="#">TC12064</a>	Bi-telecentric lens for 1/2" detectors, magnification 0.100 x, C-mount
<a href="#">TC23064</a>	Bi-telecentric lens for 2/3" detectors, magnification 0.138 x, C-mount



TC2MHR and TC4MHR series  
High resolution telecentric lenses for large detectors up to 1.2"



TC2MHR064-C	High resolution telecentric lens for 1" detectors, magnification 0.200x, C-mount
TC2MHR064-F	High resolution telecentric lens for 1" detectors, magnification 0.200x, F-mount
TC2MHR064-E	High resolution telecentric lens for 1" detectors, magnification 0.200x, mount M42X1 FD=16
TC4MHR064-C	High resolution telecentric lens for 1.2" detectors, magnification 0.275x, C-mount
TC4MHR064-F	High resolution telecentric lens for 1.2" detectors, magnification 0.275x, F-mount
TC4MHR064-E	High resolution telecentric lens for 1.2" detectors, magnification 0.275x, mount M42X1 FD=16



TC16M series  
Telecentric lenses for 35 mm and 4k/8k linescan cameras

TC16M064	Telecentric lens for 35 mm detectors, magnification 0.561 x, F-mount
TC16M064-Q	Telecentric lens for 35 mm detectors, magnification 0.561 x, mount M58x0.75 FD = 6.56



TC CORE series  
Space saving bi-telecentric lenses

TCCR12064	Bi-telecentric CORE lens for 1/2" detectors, magnification 0.100 x, C-mount
TCCR23064	Bi-telecentric CORE lens for 1/2" detectors, magnification 0.100 x, C-mount



TC2MHR-TC4MHR CORE series  
Space-saving high-resolution telecentric lenses

TCCR2M064-C	Telecentric CORE lens for 1" detectors, magnification 0.200 x, C-mount
TCCR2M064-E	Telecentric CORE lens for 1" detectors, magnification 0.200 x, M42x1 FD=16
TCCR4M064-C	Telecentric CORE lens for 4/3" detectors, magnification 0.275 x, C-mount
TCCR4M064-F	Telecentric CORE lens for 4/3" detectors, magnification 0.275 x, F-mount
TCCR4M064-E	Telecentric CORE lens for 4/3" detectors, magnification 0.275 x, M42x1 FD=16



TCSM series  
3D bi-telecentric lenses with Scheimpflug adjustment

TCSM064	3D bi-telecentric lens with Scheimpflug adjustment
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CMHO series  
Clamping mechanics CORE series

CMHO064	Clamping mechanics for CORE telecentric lenses and illuminators Ø 64mm
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CMPTCR series  
Mounting plates CORE series

CMPTCR064	Mechanical components designed for CORE telecentric lenses and illuminators Ø 64mm
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