

# LTCLCR056-R

Telecentric CORE illuminator, beam diameter 70 mm, red

## SPECIFICATIONS

### Optical specifications

Beam diameter	(mm)	70
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

### Compatible telecentric lenses

Compatibility	TCCRxx056, CMHOCR056, CMPTCR056, TCCR2M056-x, TCCR4M056-x, TCxx056, TCxMHR056-x, TC16M056, TC16M056-Q
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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"

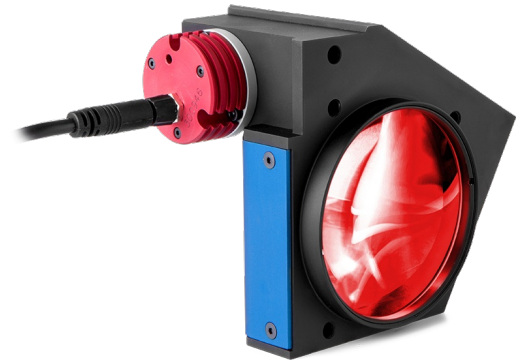
TC13056	Bi-telecentric lens for 1/2" detectors, magnification 0.084 x, C-mount
TC12056	Bi-telecentric lens for 1/2" detectors, magnification 0.114 x, C-mount
TC23056	Bi-telecentric lens for 2/3" detectors, magnification 0.157 x, C-mount



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

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



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
TC4MHR056-C	High resolution telecentric lens for 1.2" detectors, magnification 0.314x, C-mount
TC4MHR056-F	High resolution telecentric lens for 1.2" detectors, magnification 0.314x, F-mount
TC4MHR056-E	High resolution telecentric lens for 1.2" detectors, magnification 0.314x, mount M42X1 FD=16



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



TC CORE series  
Space saving bi-telecentric lenses

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



2MHR-TC4MHR CORE series  
Space-saving high-resolution telecentric lenses

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
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



TCSM series  
3D bi-telecentric lenses with Scheimpflug adjustment

TCSM056	3D bi-telecentric lens with Scheimpflug adjustment
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CMHOCR series  
Clamping mechanics CORE series

CMHOCR056	Clamping mechanics for CORE telecentric lenses and illuminators Ø 56mm
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CMPTCR series  
Mounting plates CORE series

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