

# LTCLCR096-G

Telecentric CORE illuminator, beam diameter 120 mm, green

## SPECIFICATIONS

### Optical specifications

Beam diameter	(mm)	120
Working distance range	(mm)	200 - 350
Light color, peak wavelength (5)		green, 520 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)	139
B	(mm)	172
C (6)	(mm)	223
Mass	(g)	4161

### Compatible telecentric lenses

Compatibility	TCCRxx096, CMHOCR096, CMPTCR096, TCCR2M096-x, TCCR4M096-x, TCxx096, TCxMHR096x, TC16M096, TC16M096-Q, TC12K096
---------------	--

## 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"

TC13096	Bi-telecentric lens for 1/3" detectors, magnification 0.050 x, C-mount
TC12096	Bi-telecentric lens for 1/2" detectors, magnification 0.068 x, C-mount
TC23096	Bi-telecentric lens for 2/3" detectors, magnification 0.093 x, C-mount



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

TC2MHR096-C	High resolution telecentric lens for 1" detectors, magnification 0.137x, C-mount
-------------	--



TC2MHR096-F	High resolution telecentric lens for 1" detectors, magnification 0.137x, F-mount
TC2MHR096-E	High resolution telecentric lens for 1" detectors, magnification 0.137x, mount M42X1 FD=16
TC4MHR096-C	High resolution telecentric lens for 1.2" detectors, magnification 0.186x, C-mount
TC4MHR096-F	High resolution telecentric lens for 1.2" detectors, magnification 0.186x, F-mount
TC4MHR096-E	High resolution telecentric lens for 1.2" detectors, magnification 0.186x, mount M42X1 FD=16



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

TC16M096	Telecentric lens for 35 mm detectors, magnification 0.380 x, F-mount
TC16M096-Q	Telecentric lens for 35 mm detectors, magnification 0.380 x, mount M58x0.75 FD = 6.56



TC CORE series  
Space saving bi-telecentric lenses

TCCR12096	Bi-telecentric CORE lens for 1/2" detectors, magnification 0.068 x, C-mount
TCCR23096	Bi-telecentric CORE lens for 2/3" detectors, magnification 0.093 x, C-mount



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

TCCR2M096-C	Telecentric CORE lens for 1" detectors, magnification 0.137 x, C-mount
TCCR2M096-E	Telecentric CORE lens for 1" detectors, magnification 0.137 x, M42x1 FD=16
TCCR4M096-C	Telecentric CORE lens for 4/3" detectors, magnification 0.186 x, C-mount
TCCR4M096-F	Telecentric CORE lens for 4/3" detectors, magnification 0.186 x, F-mount
TCCR4M096-E	Telecentric CORE lens for 4/3" detectors, magnification 0.186 x, M42x1 FD=16



TCSM series  
3D bi-telecentric lenses with Scheimpflug adjustment

TCSM096	3D bi-telecentric lens with Scheimpflug adjustment
---------	--



CMHOCR series  
Clamping mechanics CORE series

CMHOCR096	Clamping mechanics for CORE telecentric lenses and illuminators Ø 96mm
-----------	--



CMPTCR series  
Mounting plates CORE series

CMPTCR096	Mechanical components designed for CORE telecentric lenses and illuminators Ø 96mm
-----------	--