

LTCLHP064-G

Telecentric HP illuminator, beam diameter 80 mm, green

SPECIFICATIONS

Optical specifications

Beam diameter	(mm)	80
Working distance range	(mm)	120 - 240
Light color, peak wavelength		green, 520 nm

Mechanical specifications

Length (1)	(mm)	231.6
Outer diameter	(mm)	100
Mass	(g)	913

Electrical specifications

Device power ratings

DC voltage minimum	(V)	12
DC voltage maximum	(V)	24
Power consumption	(W)	< 2.5
Max LED forward current (2)	(mA)	350
Cable		CB244P1500 included

LED power ratings

Forward voltage (typical) (3)	(V)	3.3
Forward voltage (max) (3)	(V)	4.00
Max pulse current (4)	(mA)	2000

Compatible telecentric lenses

Compatibility	TC13064, TC12064, TC23064, TC13064, TC2M064, TC4M064, TC16M064, TC12K064
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Eye safety

Risk group according to CEI EN 62471:2010	Risk group 1
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NOTES

1. Nominal value, with no spacers in place.
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).

COMPATIBLE PRODUCTS



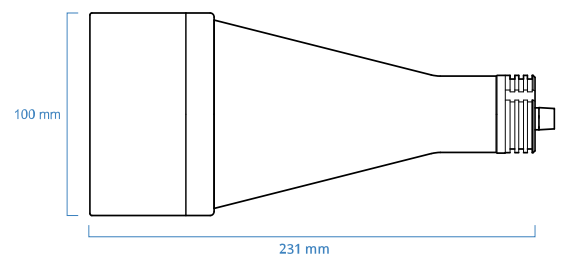
TC series
Bi-telecentric lenses for matrix detectors up to 2/3"

TC13064	Bi-telecentric lens for 1/3" detectors, magnification 0.074 x, C-mount
TC12064	Bi-telecentric lens for 1/2" detectors, magnification 0.100 x, C-mount
TC23064	Bi-telecentric lens for 2/3" detectors, magnification 0.138 x, C-mount

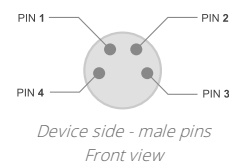


TC2MHR and TC4MHR series
High resolution telecentric lenses for large detectors up to 1.2"

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



CONNECTION



Pinout reference

PIN	FUNCTION
1	Earth
2	GND
3	LED Anode
4	Power supply (+12÷24 V)



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



TC12K series
Telecentric lenses for 12k and 16kpx line scan cameras

TC12K064	Telecentric lens for 12k and 16k linescan cameras, magnification 0.960 x, M72 x 0.75 mount
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CMBS series
45° beam splitters

CMBS064	45° beam splitter with mount for 100 mm clamping diameter optics
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CMMR series
45° first surface mirrors

CMMR064	45° first surface mirror for 100 mm clamping diameter optics
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WI series
Protective windows

WI064	Protective window for 100 mm clamping diameter optics
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CMHO series
Clamping mechanics

CMHO064	Clamping mechanics for TCxx064 lenses and LTCLHP064-X illuminators
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LTSCHP series
High-performance replacement LED modules

LTSCHP1W-G	Replacement LED module, green
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Electronics and cables
Power supplies, power and interface 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
LED1W-G	Replacement LED source, green

Optical accessories
Replacement optics and mirrors

CPDPH01	Diffuser cap for LTCLHP illuminators
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