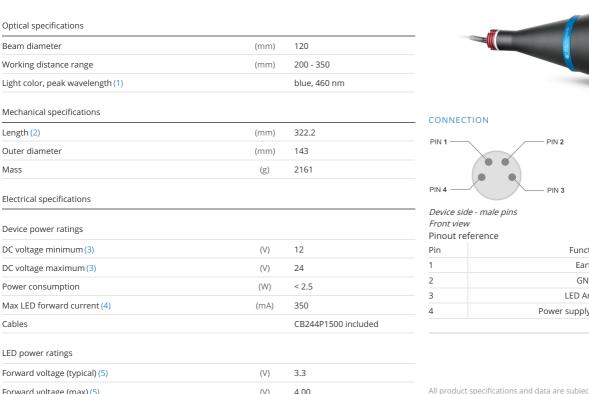
LTCLHP096-B

Telecentric HP illuminator, beam diameter 120 mm, blue

SPECIFICATIONS





Function

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

LED power ratings

Cables

Mass

Forward voltage (typical) (5)	(V)	3.3
Forward voltage (max) (5)	(V)	4.00
Max pulse current (6)	(mA)	2000

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.

Eye safety

Risk group according to CEI EN 62471:2010	Risk group 2
Last update: 2021-06-22	

NOTES

- 1. Opto $\mathsf{Engineering} \circledast$ recommends green light for high precision measurement applications
- 2. Nominal value, with no spacers in place
- 3. Tolerance ± 10%
- 4. Used in continuous (not pulsed) mode
- 5. At max forward current. Tolerance is $\pm 0.06V$ on forward voltage measurements

6. At pulse width <= 10 ms, duty cycle <= 10% condition. Built-in electronics board must be bypassed (see tech info)

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.



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

TC23085	Bi-telecentric lens for 2/3" detectors, magnification 0.104 x, C-mount
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



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



TCCR12096
TCCR23096

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

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



TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

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

TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR096-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.114x, C-mount
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
TC3MHR096-C	High resolution telecentric lens for 1.1" detectors, magnification 0.153x, C-mount
TC4MHR096-C	High resolution telecentric lens for 4/3" detectors, magnification 0.186x, C-mount
TC4MHR096-F	High resolution telecentric lens for 4/3" detectors, magnification 0.186x, F-mount
TC4MHR096-E	High resolution telecentric lens for 4/3" detectors, magnification 0.186x, mount M42X1 FD=16

TC16M series

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

TC16M096	Telecentric lens for 35 mm detectors, magnification 0.380 x, F-mount
тс16М096-с	Telecentric lens for 35 mm detectors, magnification 0.380 x, mount M58x0.75 FD = 6.56
	TC12M series
Telecentric	lenses for sensors up to APS-H and 4k line scan cameras
TC12M096-F	High resolution telecentric lenses, magnification 0.306, WD 256.0, F mount
TC12M096-J	High resolution telecentric lenses, magnification 0.306, WD 256.1, M42x1 FD12
7	TCDP series
Double por	t bi-telecentric lens for detector up to 2/3"
Double poir	
TCDP2X096	Double magnification bi-telecentric lens, for detectors up to 2/3"
TCDP4X096	Double magnification bi-telecentric lens, for detectors up to 2/3"
	Accessories
	Accessories and add-ons to make the most of Opto Engineering ${}^{\!\!\!\!\!\!R}$ lenses.
LED1W-B	Replacement LED source, blue
	Diffuser cap for LTCLHP illuminators
	CMMR series
•	45° first surface mirrors
CMMR096	45° first surface mirror for 143 mm clamping diameter optics
00	WI series
Protective v	vindows for lenses
	Protective window for 143 mm clamping diameter optics



CMHO series

Clamping mechanics for lenses

CMHO096 Clamping mechanics for TCxx085, TCxx096 lenses and LTCLHP096-X illuminators LTSCHP series High-performance replacement LED modules LTSCHP1W-B Replacement LED module, blue 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 CMT series Precision alignment mechanics for lenses CMTH096 Precision alignment mechanics for telecentric optics 096 LTIC series LED lighting controllers LTIC1CH-A1-4 Analogue lighting controller unit, 4A, 24V LTIC1CH-D1-4 Digital lighting controller unit, 4A, 24V 24VDC analog lighting controller 1 channel, UK power cord, Illumination LTICOBUL1000CH1-24VUSTB cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m 24VDC analog lighting controller 1 channel, UK power cord, Illumination LTICOBUL1000CH1-24VEUTB 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