

LTCLHP CORE series

Ultra compact telecentric illuminators

INTERNATIONAL
PATENT
PENDING

VisionSystems
2016 Innovators Awards
GOLD

PRECISION TOP
INNOVATION
2016



KEY ADVANTAGES

Deliver excellent performance

LTCLHP CORE telecentric illuminators deliver exactly the same excellent optical performance as other Opto Engineering® telecentric illuminators.

Downsize your vision system

LTCLHP CORE telecentric illuminators are up to 60% smaller than other telecentric illuminators on the market.

Easily fit into existing systems

LTCLHP CORE illuminators can be mounted in different directions in your machine.

Improve your system performance

LTCLHP CORE illuminators may be used instead of flat backlights to improve your system.

Help to spare and sell

A smaller system means less expenses and less space and is preferred by the industry.

Homogeneity test report with measured values.

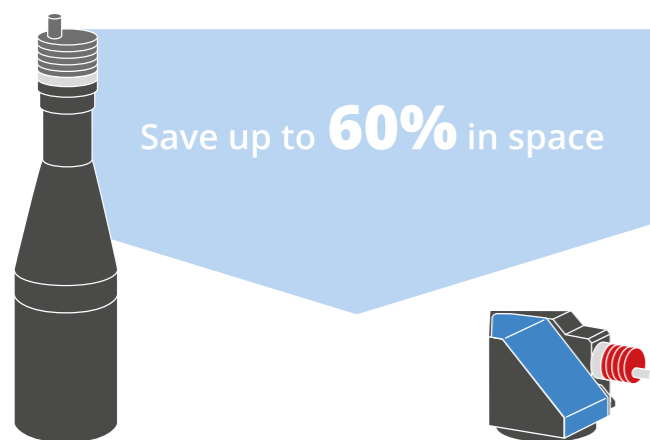
LTCLHP CORE Series are ultra compact telecentric illuminators. They are up to 60% more compact than other collimated illuminators on the market.

The ultra compact size allows you to greatly reduce the size of your machine and to easily integrate true collimated illumination instead of common flat backlights, thus improving your system's performance.

The smart design also makes them easy to retrofit into existing systems. They can easily be mounted in different directions using any of their 4 sides, with or without clamps.




A smaller system means lower manufacturing, shipping and storage costs, as well as less use of factory space and is the solution preferred by the industry.

LTCLHP CORE illuminators can be used both with classic telecentric lenses and with ultra compact telecentric lenses from CORE family like TC CORE, TC2MHR CORE and TC4MHR CORE series.



LTCLHP CORE telecentric illuminators are up to 60% shorter than other telecentric illuminators on the market.

SEE ALSO

	TC series	p. 8
FULL RANGE OF COMPATIBLE ACCESSORIES		
	Mounting mechanics CMHO CR and CMPT CR series	p. 203
	LTDV1CH-17V strobe controller	p. 222

Precise light intensity tuning

Easily and precisely tune the light intensity level thanks to the leadscrew multi-turn trimmer positioned in the back.



Direct LED control

The built-in electronics can be bypassed in order to drive the LED directly for use in continuous or pulsed mode. When bypassed, the built-in electronics behaves as an open circuit allowing for direct control of the LED source.



Part number	Light	Device power ratings				LED power ratings			
		Light color, wavelength peak	DC voltage		Power consumption	Max LED fwd current	Forward voltage		Max pulse current
			min (V)	max (V)			typical (V)	max (V)	
LTCLCR xxx-R	red, 630 nm	12	24	< 2.5	350	2.4	3.00	2000	
LTCLCR xxx-G	green, 520 nm	12	24	< 2.5	350	3.3	4.00	2000	
LTCLCR xxx-W	white	12	24	< 2.5	350	2.78	n.a.	2000	

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 ≤ 10 ms, duty cycle $\leq 10\%$ condition. Built-in electronics board must be bypassed (see tech info online).

