

LTPRUP-G | DATASHEET

90W strobed LED pattern projector, green, 525 nm





SPECIFICATIONS

Lighting specifications

Beam diameter	(mm)	11
Light color, peak wavelength		green, 525 nm
Spectral FWHM	(nm)	40
Illuminance ¹	(klux)	220

Electrical specifications

Operating mode ²		Strobe
Power supply mode		Constant current driving
Peak power consumption	(W)	90
Max led forward current	(A)	17
Max pulse duration ³	(ms)	1
Max duty cycle	(%)	1.5
Estimated MTBF ⁴	(hours)	> 50000
Connector		M12
Included cable		CBLT001

Mechanical specifications

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Mount		С
Phase adj availability		Yes
Length ⁵	(mm)	108.9
Width	(mm)	46.0
Height	(mm)	93.0
Mass	(g)	293

KEY ADVANTAGES

LED technology for perfectly sharp edges

Thinner lines, sharper edges and more even illumination than lasers.

Ultra high-power light output and strobe mode only operation

Low sensitivity to ambient light for the inspection of fast moving objects and an extended LED lifetime.

Repeatable results with dedicated strobe controllers

Compatible LTDV series ensures very stable illumination intensity.

Wide selection of projection patterns available

Chrome-on-glass patterns with geometrical accuracy down to 2 μ m.

Compatible with any C-mount optics

LTPRUP series are the most powerful LED pattern projectors designed for fast image acquisition in high speed applications where the camera exposure time must be set to the minimum, including planarity control of opaque products, robot guidance for fast pick and place and 3D profiling.

Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only

Eye safety

Risk group	(CEI EN 62471:2010)	Exempt
Mak group	(CLI LIN 02-77 1.2010)	Exchipt

- ¹ With a 35mm lens, *f*/1.4 at 100mm working distance without projection pattern at maximum driving current. Estimated value
- ² To directly drive the LED, current control is necessary. External compatible controller from LTDV series must be used.
- ³ At 25°C. At max pulse width (1 ms), max pulse frequency = 15 Hz. Contact us to check other admissible combinations of duty cycle-frequency-temperature.
- 4 At 25° C.
- ⁵ Including connector.

COMPATIBLE PRODUCTS

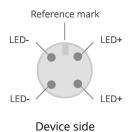
Full list of compatible products available here.

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OPTICS	LIGHTING	CAMERAS	SOFTWARE	ACCESSORIES
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A wide selection of innovative machine vision components.				

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. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.



CONNECTOR PINOUT

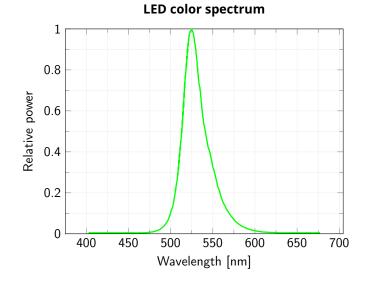


Function	Cable color
LED +	Brown
LED +	Black
LED -	Blue
LED -	White

LTDV CONTROLLER

LTPRUP models are designed for strobe-mode only and can be precisely controlled using compatible **LTDV strobe controllers series**. The following LTDV controller are considered to be fully compatible with the LTPRUP series:

- LTDVE1CH-40F, Strobe controller 1 channel
- LTDV1CH-17V, Strobe controller 1 channel variable current 5 mA 17A
- LTDVE2CH-20F, LED Strobe controller 2 channels, 20A/40A pulsed 2A/4A continuous, fast version
- LTDVE4CH-20, LED Strobe controller 4 channels, 20A pulsed - 2A continuous
- LTDV6CH, Strobe controller 6 channels
- LTDVE8CH-20, LED Strobe controller 8 channels, 20A pulsed - 2A continuous



Forward Current Characteristics

