

LTPRHP3W-G | DATASHEET

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)	14

Electrical specifications

Operating mode ²		Continuous and strobe
Supply voltage ³	(V)	12-24
Power consumption	(W)	4.5
Led forward voltage typical (max) ⁴	(V)	3.3 (4.0)
Max led forward current ⁵	(mA)	720
Max pulse current ⁶	(mA)	2000
Estimated MTBF ⁷	(hours)	> 100000
Connector		M8
Included cable		CB244P1500

Mechanical specifications

Mount		С
Phase adj availability		Yes
Diameter	(mm)	38.5
Length	(mm)	90.8
Mass	(g)	153

KEY ADVANTAGES

LED technology for perfectly sharp edges.

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

Wide selection of projection patterns available (custommade upon request).

Chrome-on-glass patterns with geometrical accuracy down to 2 μm . Compatible with any C-mount optics.

Precise light intensity adjustment.

Easy LED source replacement.

LTPRHP3W series features advanced and efficient LED projectors for structured light applications such as, quality control, 3D reconstruction, 3D profilometry, stereovision, planarity control, robot guidance for pick and place and alignment applications.

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)	Risk group 1

- ¹ With a 35mm lens, *f*/1.4 at 100mm working distance without projection pattern at maximum driving current. Estimated value
- ² To pulse LTPRHP3W, models built in electronics must be bypassed in order to drive the LED directly
- 3 Tolerance $\pm 10\%$
- 4 Max continuous LED driving current is supplied through the built.in electronics. No external controller is required
- 5 At max forward current. Tolerance is $\pm\,0.06\text{V}$ on forward voltage measurements
- ⁶ At pulse width \leq 10 ms and duty cycle \leq 10%. Built-in electronics board must be bypassed (see tech info)
- ⁷ At 55°C, 720mA

COMPATIBLE PRODUCTS

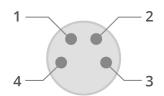
Full list of compatible products available here.



A wide selection of innovative machine vision components.



CONNECTOR PINOUT



Pin	Function	Cable color
1	Earth	Yellow/Green
2	Ground	Black
3	Anode	Blue
4	Power supply (+12/24 V)	Brown

Device side

