

# LT2PRXP-G | DATASHEET

## High power LED pattern projector, green, 525 nm



#### **KEY ADVANTAGES**

High efficiency LEDs for sharp edges, superior homogeneity and contrast

**Built-in driver for continuous and strobe operations** 

**5 PIN M12 Connector** with PNP/NPN/analogue dimming input

Compatible with standard C-mount lenses up to 1.1"

Automatic shutdown in case of overheating

Interchangeable projection patterns

**Compact version** available



**LTPRUP series** features high-power LED pattern projectors designed for inline or offline applications including quality control, 3D reconstruction, dimensional measurement, planarity control, robot guidance and alignment applications.

#### **SPECIFICATIONS**

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Active area diameter	(mm)	17.6
Light color, peak wavelength	ı	green, 525 nm
Spectral FWHM	(nm)	35
Illuminance, continuos <sup>1</sup>	(klux)	1188
Irradiance, continuos <sup>1</sup>	(W/m <sup>2</sup> )	2380
Illuminance, strobe <sup>1</sup>	(klux)	1932
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	4190

## **Mechanical specifications**

Mount		С	
Phase adj availability		Yes	
Length	(mm)	100.7	
Width	(mm)	59.1	
Height	(mm)	59.1	
Mass	(g)	332	

#### **Electrical specifications**

Included cable

Operating mode		Continuous and strobe
Power supply mode		-
Supply voltage <sup>2</sup>		24
Current <sup>2</sup>		0.85
Power consumption <sup>2</sup>		20.4
Peak power consumption <sup>3</sup>	(W)	48
Max led forward current <sup>3</sup>	(A)	3
Min pulse duration	( $\mu$ s)	2
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(%)	400
Typical jitter	(%)	100
I/O interface	PNP I	logic input, NPN logic input,
1/O IIIterrace		analog dimming input
Connector	1x M12 st	raight plug male connector

### **Environment**

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only
IP rating		IP30

### **Eye safety**

Risk group (CEI EN 62471:2010) Risk group 1

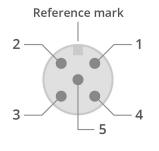
- <sup>1</sup> At pattern emitting surface.
- <sup>2</sup> Continuous mode, using the integrated electronic driver.
- <sup>3</sup> Strobe mode.

not included

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.

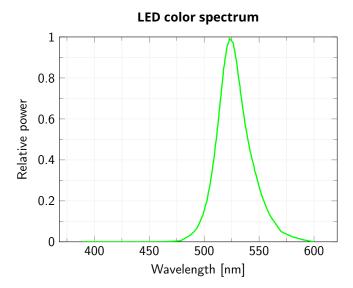


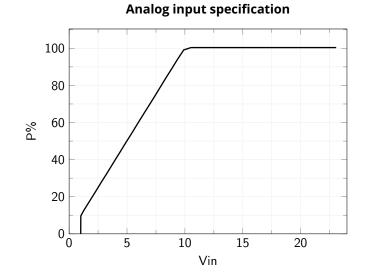
#### **CONNECTOR PINOUT**



Device side

Pin	Function
1	+24Vdc
2	NPN
3	GND
4	PNP
5	Analog dimming (0-10V)





## **RECOMMENDED ACCESSORIES**

Opto-Engineering® suggests the following accessories to power the camera:

- **CBLTM12-5P-2M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end 2 m
- **CBLTM12-5P-5M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end 5 m
- **CBLTM12-5P-10M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end 10 m

## **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.