

LT2PRXP-R | DATASHEET

High power LED pattern projector, red, 625 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	1	red, 625 nm
Spectral FWHM	(nm)	20
Illuminance, continuos ¹	(klux)	498
Irradiance, continuos ¹	(W/m ²)	3100
Illuminance, strobe ¹	(klux)	1300
Irradiance, strobe ¹	(W/m ²)	6370

Mechanical specifications

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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 ²		24
Current ²		1.05
Power consumption ²		25.2
Peak power consumption ³	(W)	45.6
Max led forward current ³	(A)	3
Min pulse duration	(μ s)	2
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(%)	400
Typical jitter	(%)	100
I/O interface	PNP	logic input, NPN logic input,
I/O IIILEITALE		analog dimming input
Connector	1x M12 s	traight 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

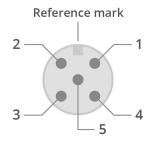
- ¹ At pattern emitting surface.
- ² Continuous mode, using the integrated electronic driver.
- ³ Strobe mode.

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.

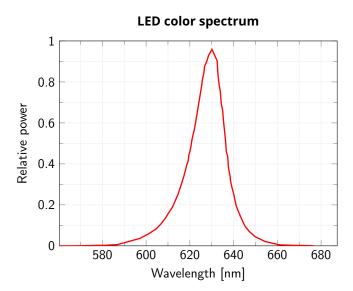


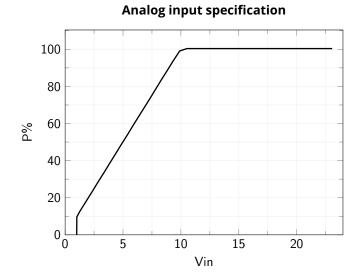
CONNECTOR PINOUT



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.