

LT2PRXP-IR850-C | DATASHEET

High power LED pattern projector, IR, 850 nm





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	IR, 850 nm	
Spectral FWHM	(nm)	35	
Illuminance, continuos ¹	(klux)	-	
Irradiance, continuos ¹	(W/m ²)	-	
Illuminance, strobe ¹	(klux)	2.7	
Irradiance, strobe ¹	(W/m ²)	13300	

Mechanical specifications

	Mount		С	
	Phase adj availability		Yes	
	Length	(mm)	67.5	
	Width	(mm)	46.0	
	Height	(mm)	93.0	
_	Mass	(g)	199	

Electrical specifications

Operating mode	Strobe		
Power supply mode	Constant current driving		
Supply voltage ²	-		
Current ²		-	
Power consumption ²		-	
Peak power consumption ³	(W)	45	
Max led forward current ³	(A)	3	
Min pulse duration	(μ s)	-	
Max pulse duration	(ms)	10	
Max duty cycle	(%)	10	
Typical pulse delay	(%)	-	
Typical jitter	(%)	-	

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

Environment

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.

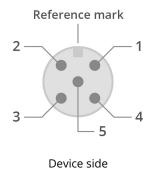
I/O interface

Connector	1x M12 straight plug male connector
Included cable	not included

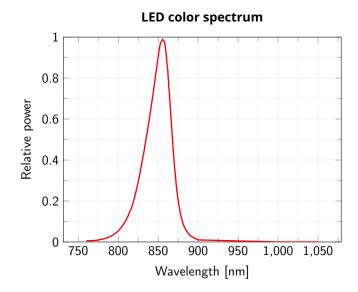
All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

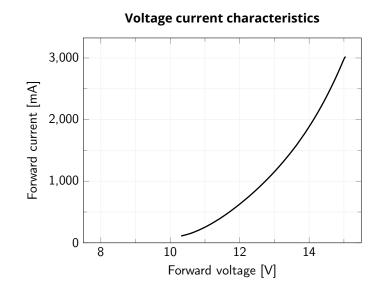


CONNECTOR PINOUT



Pin	Function
1	LED anode
2	LED cathode
3	NTC first
	end
4	NTC second
	end
_	Not
3	connected





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.