

LT2PRXP-IR850-C | DATASHEET

High power LED pattern projector, IR, 850 nm, compact version



KEY ADVANTAGES

Compact version

High efficiency LEDs for sharp edges, superior homogeneity and contrast

5 PIN M12 Connector

Compatible with standard C-mount lenses up to 1.1"
Interchangeable projection patterns



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

ΙIσΙ	ntıng	specifi	cations

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

Е	lect	trica	al s	pec	CITIC	cati	ions

Connector
Included cable

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

Mechanical specifications

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

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.

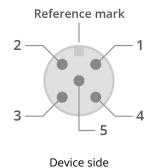
not included

1x M12 straight plug male connector

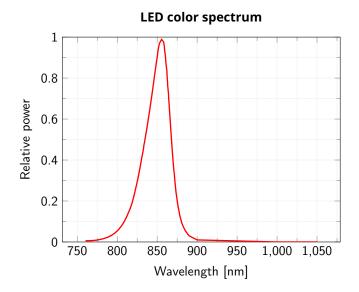
All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

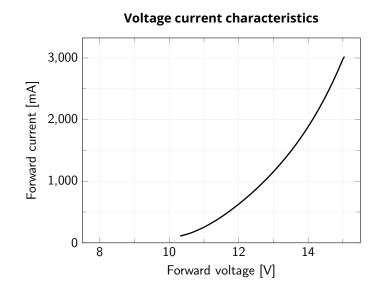


CONNECTOR PINOUT



Pin	Function	
1	LED anode	
2	LED cathode	
3	NTC first	
	end	
4	NTC second	
	end	
5	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.