

LT2PRXP-IR850-C | DATASHEET

High power LED pattern projector, IR, 850 nm











SPECIFICATIONS

Lighting specifications

Active area diameter	(mm)	17.6
Light color, peak wavelength		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

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	(ms)	-
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(%)	-
Typical jitter	(%)	-
	. ,	-

I/O interface

Connector	M12 straight plug male connector
Included cable	20 cm pigtail

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.

Mechanical specifications

Mount		C	
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

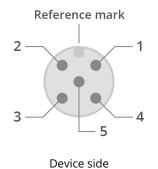
Eye safety

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

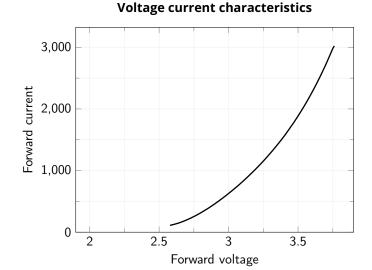
- ¹ At pattern emitting surface.
- ² Continuous mode, using the integrated electronic driver.
- ³ Strobe mode.



CONNECTOR PINOUT



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