

# LT2PRUP-IR850 | DATASHEET

## High power LED pattern projector, IR, 850 nm





### **SPECIFICATIONS**

#### **Lighting specifications**

Active area diameter	(mm)	17.6	Mount
Light color, peak wavelength	า	IR, 850 nm	Phase adj availability
Spectral FWHM	(nm)	35	Length
Illuminance, continuos <sup>1</sup>	(klux)	1.36	Width
Irradiance, continuos <sup>1</sup>	(W/m²)	7520	Height
Illuminance, strobe <sup>1</sup>	(klux)	5	Mass
Irradiance, strobe <sup>1</sup>	(W/m²)	25700	

# **Electrical specif** Operating mode Supply voltage<sup>2</sup> Current<sup>2</sup> Power consump Peak power cons Max led forward Min pulse durati

Electrical specifications			Operating ten	
Operating mode		Continuous and	Storage temp	
		strobe	Operating rela	
Supply voltage <sup>2</sup>	(V)	24	Installation	
Current <sup>2</sup>	(A)	1.06	IP rating	
Power consumption <sup>2</sup>	(W)	25.4	0	
Peak power consumption <sup>3</sup>	(W)	105.6	Eye safety	
Max led forward current <sup>3</sup>	(A)	3	Risk group (CE	
Min pulse duration	(μs)	2	<sup>1</sup> At pattern em	
Max pulse duration	(ms)	10	<sup>2</sup> Continuous m <sup>3</sup> Strobe mode.	
Max duty cycle	(%)	10	Strobe mode.	
Typical pulse delay	(%)	400		
Typical jitter	(%)	100		
	PNP logic input, NPN logic input,			
I/O interface	analog dimming input			

1x M12 straight plug male connector

#### **KEY ADVANTAGES**

High efficiency LEDs for sharp edges, superior homogeneity and contrast Built-in driver for continuous and strobe operations Extreme brightness for high-speed quality control **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

LTPRUP series features ultra-high power LED pattern projectors designed for fast image acquisition in high-speed applications, including planarity control of opaque products, robot guidance for fast pick and place and 3D profiling.

#### **Mechanical specifications**

Mount		С	
Phase adj availability		Yes	
Length	(mm)	118.5	
Width	(mm)	77.3	
Height	(mm)	77.3	
Mass	(g)	530	

#### **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

EI EN 62471:2010)

Risk group 3

mitting surface.

mode, using the integrated electronic driver.

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.

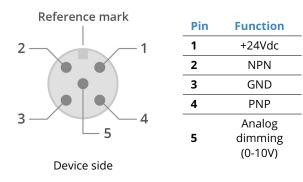
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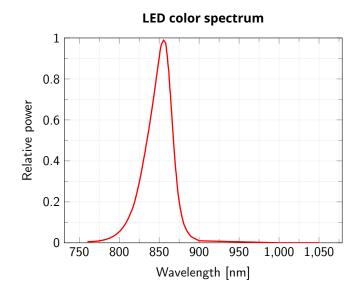
Included cable

Connector



#### **CONNECTOR PINOUT**





#### **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

100 80 60 40 20 0 5 10 15 20Vin

Analog input specification

#### **COMPATIBLE PRODUCTS**

#### Full list of compatible products available here.



A wide selection of innovative machine vision components.

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