

High efficiency LEDs for sharp edges, superior homogeneity

5 PIN M12 Connector with PNP/NPN/analogue dimming input

LTPRUP series features high-power LED pattern projectors de-

signed for inline or offline applications including quality control, 3D reconstruction, dimensional measurement, planarity control,

Built-in driver for continuous and strobe operations

Compatible with standard C-mount lenses up to 1.1"

Automatic shutdown in case of overheating

robot guidance and alignment applications.

Interchangeable projection patterns

Compact version available

LT2PRXP-B | DATASHEET

High power LED pattern projector, blue, 465 nm





SPECIFICATIONS

Lighting specifications

KEY ADVANTAGES

and contrast

Active area diameter	(mm)	17.6	Mount		C	
Light color, peak wavelength		blue, 465 nm	Phase adj availability		Yes	
Spectral FWHM	(nm)	30	Length	(mm)	100.7	
llluminance, continuos ¹	(klux)	202	Width	(mm)	59.1	
Irradiance, continuos ¹	(W/m²)	9100	Height	(mm)	59.1	
Illuminance, strobe ¹	(klux)	224	Mass	(g)	332	
Irradiance, strobe ¹	(W/m²)	13100				
			Environment			

Flectrical	snecifications
LICCUICUI	specification.

Operating mode		Continuous and strobe	
Power supply mode		-	
Supply voltage ²	(V)	24	
Current ²	(A)	1.3	
Power consumption ²	(W)	31.2	
Peak power consumption ³	(W)	45.6	
Max led forward current ³	(A)	3	
Min pulse duration	(µs)	2	
Max pulse duration	(ms)	10	
Max duty cycle	(%)	10	
Typical pulse delay	(%)	400	
Typical jitter	(%)	100	
1/O interface	PNP logic input, NPN logic input,		
	analog dimming input		
Connector	1x M12 str	aight plug male connector	
Included cable		not included	

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 3

¹ At pattern emitting surface.

² Continuous mode, using the integrated electronic driver.
³ Strobe mode.

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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CONNECTOR PINOUT







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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