

LT2PRUP-G | DATASHEET

High power LED pattern projector, green, 525 nm





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.

SPECIFICATIONS

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LIG	nting	specificat	ions

Active area diameter	(mm)	17.6
Light color, peak wavelength	1	green, 525 nm
Spectral FWHM	(nm)	35
Illuminance, continuos ¹	(klux)	2500
Irradiance, continuos ¹	(W/m ²)	4950
Illuminance, strobe ¹	(klux)	4380
Irradiance, strobe ¹	(W/m ²)	9690

Mechanical specifications

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

Electrical specifications

Electrical specifications		
Operating mode		Continuous and strobe
Supply voltage ²	(V)	24
Current ²	(A)	1.65
Power consumption ²	(W)	39.6
Peak power consumption ³	(W)	108
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
I/O interface	PNP log	ic input, NPN logic input,
I/O IIILEITALE		analog dimming input
Connector	1x M12 stra	ight plug male connector
Included cable		not inluded

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

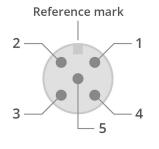
Risk group (CEI EN 62471:2010) Risk group 1

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

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.

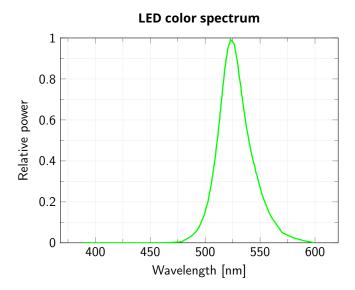


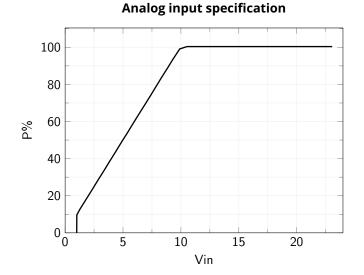
CONNECTOR PINOUT



Device side

Pin	Function
1	+24Vdc
2	NPN
3	GND
4	PNP
5	Analog dimming (0-10V)





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.