

LT2PRUP-UV405 | DATASHEET

High power LED pattern projector, UV, 405 nm





SPECIFICATIONS

Lighting specifications

Active area diameter	(mm)	17.6
Light color, peak wavelengt	UV, 405 nm	
Spectral FWHM	(nm)	25
Illuminance, continuos ¹	(klux)	35
Irradiance, continuos ¹	(W/m²)	15500
Illuminance, strobe ¹	(klux)	45
Irradiance, strobe ¹	(W/m²)	26500

Electrical specifications

Operating mode		Continuous and strobe
Supply voltage ²		24
Current ²		2.6
Power consumption ²		62.4
Peak power consumption ³	(W)	115.2
Max led forward current ³	(A)	3
Min pulse duration	(ms)	2
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(%)	400
Typical jitter	(%)	100
I/O interface	PNP logic input, NPN logic input,	
		analog dimming input
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 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

Eye safety

Risk group (CEI EN 62471:2010)

Risk group 3

¹ At pattern emitting surface.

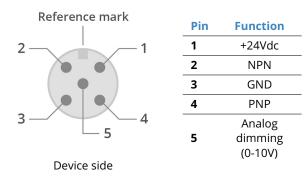
² Continuous mode, using the integrated electronic driver.

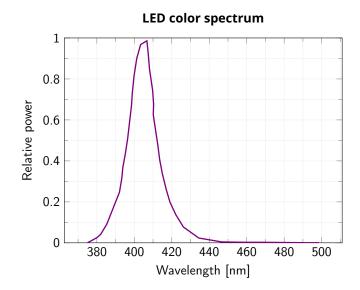
³ Strobe mode.

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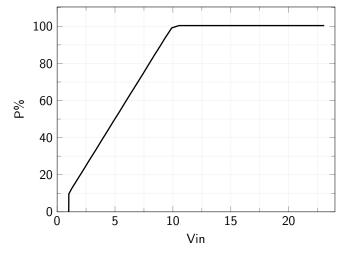


CONNECTOR PINOUT





Analog input specification



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.

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