

# LT2PRUP-UV405 | DATASHEET

# High power LED pattern projector, UV, 405 nm





## **SPECIFICATIONS**

#### **Lighting specifications**

Active area diameter	(mm)	17.6	Mount
Light color, peak waveleng	UV, 405 nm	Phase adj ava	
Spectral FWHM	(nm)	25	Length
llluminance, continuos <sup>1</sup>	(klux)	35	Width
Irradiance, continuos <sup>1</sup>	(W/m <sup>2</sup> )	15500	Height
Illuminance, strobe <sup>1</sup>	(klux)	45	Mass
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	26500	-

#### **Electrical specifications**

Lieutical specifications		
Operating mode		Continuous and strobe
		SUIODE
Supply voltage <sup>2</sup>	(V)	24
Current <sup>2</sup>	(A)	2.6
Power consumption <sup>2</sup>	(W)	62.4
Peak power consumption <sup>3</sup>	(W)	115.2
Max led forward current <sup>3</sup>	(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 lo	gic input, NPN logic input,
		analog dimming input
Connector	1x M12 straight plug male connector	
Included cable	not inluded	

#### **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

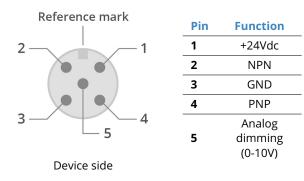
<sup>1</sup> At pattern emitting surface.

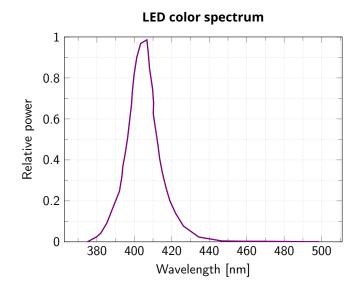
<sup>2</sup> Continuous mode, using the integrated electronic driver.
<sup>3</sup> Strobe mode.

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.

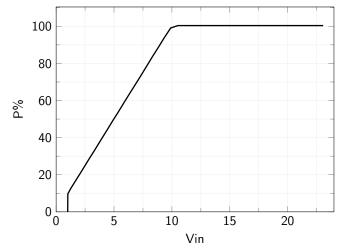


#### **CONNECTOR PINOUT**





# 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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