

# LT2PRXP-UV405-C | DATASHEET

## High power LED pattern projector, UV, 405 nm











### **SPECIFICATIONS**

#### **Lighting specifications**

Active area diameter	(mm)	17.6
Light color, peak wavelength		UV, 405 nm
Spectral FWHM	(nm)	25
Illuminance, continuos <sup>1</sup>	(klux)	-
Irradiance, continuos <sup>1</sup>	(W/m <sup>2</sup> )	-
Illuminance, strobe <sup>1</sup>	(klux)	22
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	9720

#### **Electrical specifications**

Operating mode	Strobe	
Power supply mode		Constant current driving
Supply voltage <sup>2</sup>		-
Current <sup>2</sup>		-
Power consumption <sup>2</sup>		-
Peak power consumption <sup>3</sup>	(W)	44.4
Max led forward current <sup>3</sup>	(A)	3
Min pulse duration	(ms)	-
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(%)	-
Typical jitter	(%)	-

## I/O interface

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** 

**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

**Compact version** available

LTPRUP series features high-power LED pattern projectors designed for inline or offline applications including quality control, 3D reconstruction, dimensional measurement, planarity control, robot guidance and alignment applications.

#### **Mechanical specifications**

Mount		C	
Phase adj availability		Yes	
Length	(mm)	67.5	
Width	(mm)	46.0	
Height	(mm)	93.0	
Mass	(g)	199	

## **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

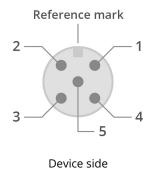
#### **Eye safety**

Risk group (CEI EN 62471:2010) Risk group 3

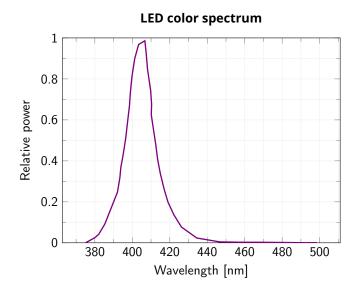
- <sup>1</sup> At pattern emitting surface.
- <sup>2</sup> Continuous mode, using the integrated electronic driver.
- <sup>3</sup> Strobe mode.

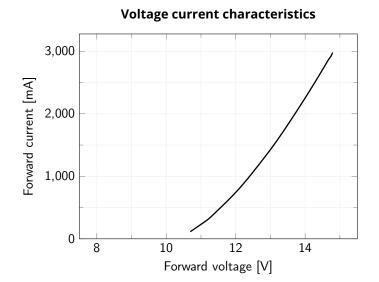


#### **CONNECTOR PINOUT**



Pin	Function
1	LED anode
2	LED cathode
3	NTC first
	end
4	NTC second
	end
5	Not
3	connected





## **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.