

LT2PRUP-W | DATASHEET

High power LED pattern projector, white, 5700 K





SPECIFICATIONS

Lighting specifications			Mechanical specifications		
Active area diameter	(mm)	17.6	Mount		С
Light color, peak waveleng	th	white, 5700 K	Phase adj availabilit	у	Yes
Spectral FWHM	(nm)	-	Length	(mm)	118.5
Illuminance, continuos ¹	(klux)	4580	Width	(mm)	77.3
Irradiance, continuos ¹	(W/m ²)	14300	Height	(mm)	77.3
Illuminance, strobe ¹	(klux)	7580	Mass	(g)	530
Irradiance, strobe ¹	(W/m ²)	25000	_		

Electrica	l specifications

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Operating mode		Continuous and strobe	
Supply voltage ²	(V)	24	
Current ²	(A)	2.5	
Power consumption ²	(W)	60.0	
Peak power consumption ³	(W)	115.2	
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 logic input, NPN logic input,		
	analog dimming input		
Connector	1x M12 straight plug male connector		
Included cable		not inluded	

Phase adj availability		Yes	
Length	(mm)	118.5	
Width	(mm)	77.3	
Height	(mm)	77.3	
Mass	(g)	530	
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High efficiency LEDs for sharp edges, superior homogeneity

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

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

Built-in driver for continuous and strobe operations Extreme brightness for high-speed quality control

Compatible with standard C-mount lenses up to 1.1"

Automatic shutdown in case of overheating

Interchangeable projection patterns

for fast pick and place and 3D profiling.

Environment

KEY ADVANTAGES

and contrast

(°C)	0-40
(°C)	0-50
(%)	20-85, non condensing
	Indoor use only
	IP30
	(°C)

Eye safety

Risk group (CEI EN 62471:2010)

Risk group 3

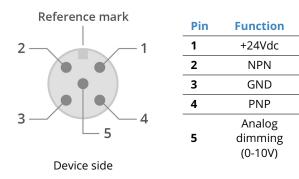
¹ At pattern emitting surface.

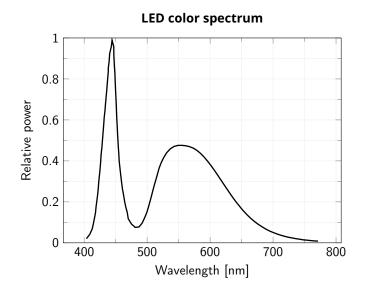
² Continuous mode, using the integrated electronic driver. ³ Strobe mode.

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





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

 $\begin{array}{c}
100 \\
80 \\
60 \\
40 \\
20 \\
0 \\
0 \\
5 \\
10 \\
15 \\
20 \\
Vin \\
\end{array}$

Analog input specification

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.

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