



LT3BC300300-W | DATASHEET

High-power LED backlights with integrated driver



KEY ADVANTAGES

High-power light output

Built-in driver for continuous and strobe operations

Industry standard 5 PIN M12 Connector

with PNP/NPN/analog dimming input

Optional collimating, polarizing and protective filters

Compact & robust design with reduced thickness (24 mm) and thin edges

Automatic shutdown in case of overheating

The LT3BC series features high-performance LED backlights designed to provide high-power light output, excellent uniformity and contrast thanks to high-efficiency LEDs.

SPECIFICATIONS

Lighting specifications

Illumination area height	(mm)	300
Illumination area width	(mm)	300
Number of LEDs		1296
Light color, peak wavelength		white, 5700 K
Spectral FWHM	(nm)	-
Illuminance, continuous ¹	(klux)	109
Irradiance, continuous ¹	(W/m ²)	314
Illuminance, boosted ¹	(klux)	233
Irradiance, boosted ¹	(W/m ²)	649
Illuminance, strobe ¹	(klux)	640
Irradiance, strobe ¹	(W/m ²)	1755
Diffuser		yes
Collimation film		optional

Mechanical specifications

Height	(mm)	308.0
Width	(mm)	326.0
Thickness	(mm)	24.0
Mass	(g)	1750
Clamping system		4x M4 threaded holes

Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only
IP rating		IP54

Electrical specifications

Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuous	(mA)	3600
Power consumption, continuous	(W)	86.5
Current, boosted	(mA)	7200
Power consumption, boosted	(W)	173
Peak current, strobe	(mA)	21600
Peak power consumption, strobe	(W)	518
Min pulse duration	(µs)	3
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(ns)	300
Typical jitter	(ns)	10

I/O interface	PNP logic input, NPN dimming input, analog dimming input
Connector	2x M12 straight plug male connector
Included cable	not included

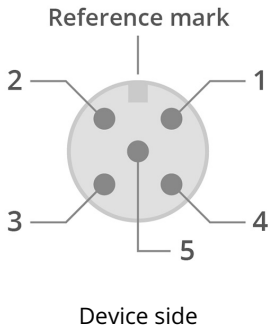
Eye safety

Risk group (CEI EN 62471:2010)	Exempt
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¹ At emitting surface.

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CONNECTOR PINOUT



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

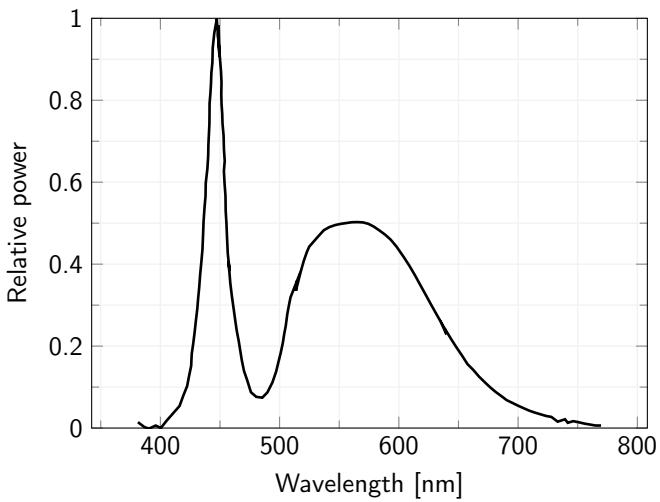
COMPATIBLE PRODUCTS

Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.

LED color spectrum



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