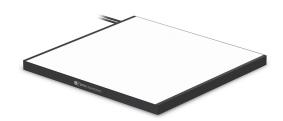


LT3BC400400-IR850 | DATASHEET

High-power LED backlights with integrated driver











SPECIFICATIONS

Lighting specifications

Illumination area height	(mm)	400
Illumination area width	(mm)	400
Number of LEDs		2304
Light color, peak wavelength		IR, 850 nm
Spectral FWHM	(nm)	35
Illuminance, continuos ¹	(klux)	0.01
Irradiance, continuos ¹	(W/m ²)	57
Illuminance, boosted ¹	(klux)	0.02
Irradiance, boosted ¹	(W/m ²)	124
Illuminance, strobe ¹	(klux)	0.07
Irradiance, strobe ¹	(W/m ²)	340
Diffuser		yes
Collimation film		optional

Mechanical specifications

Height	(mm)	408.0
Width	(mm)	426.0
Thickness	(mm)	24.0
Mass	(g)	2825
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

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.

Electrical specifications

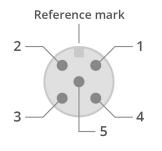
Supply voltage (V) 24 Current, continuos (mA) 3840 Power consumption, continuos (W) 92 Current, boosted (mA) 7680 Power consumption, boosted (W) 184 Pear current, strobe (mA) 20480 Peak power consumption, strobe (W) 492 Min pulse duration (ms) 3 Max pulse duration (ms) 10 Max duty cycle (%) 10 Typical pulse delay (ns) 300 Typical jitter (ns) 10 PNP logic input, NPN dimming input, analog dimming input, analog dimming input, analog dimming input male connector 2x 20 cm pigtail			
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Power consumption, uos (w) 92 Current, boosted (mA) 7680 Power consumption, boosted (W) 184 Pear current, strobe (mA) 20480 Peak power consumption, strobe (W) 492 Min pulse duration (μs) 3 Max pulse duration (ms) 10 Max duty cycle (%) 10 Typical pulse delay (ns) 300 Typical jitter (ns) 10 PNP logic input, NPN dimming input, analog dimming input, analog dimming input, analog dimming input, analog dimming input M12 straight plug male connector Included cable 2x 20 cm pigtail	Supply voltage	(V)	24
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PNP logic input, I/O interface NPN dimming input ,	Typical pulse delay	(ns)	300
I/O interface NPN dimming input, analog dimming input M12 straight plug male connector Included cable 2x 20 cm pigtail	Typical jitter	(ns)	10
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Connector M12 straight plug male connector Included cable 2x 20 cm pigtail	I/O interface		NPN dimming input,
Included cable 2x 20 cm pigtail			analog dimming input
Included cable 2x 20 cm pigtail	Connector		M12 straight plug
			male connector
Evo cofety.	Included cable		2x 20 cm pigtail
Two cofety.			
Eye safety	Eye safety		

Risk group (CEI EN 62471:2010) Risk group 1

¹ At emitting surface.



CONNECTOR PINOUT



Device side

700

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

0.8 0.6 0.6 0.4 0.2 0.2

800

850

Wavelength [nm]

900

950

750

LED color spectrum

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.