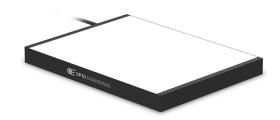


LT3BC200250-IR850 | DATASHEET

High-power LED backlights with integrated driver











SPECIFICATIONS

Lighting specifications

Illumination area height	(mm)	200
Illumination area width	(mm)	250
Number of LEDs		720
Light color, peak wavelength		IR, 850 nm
Spectral FWHM	(nm)	35
Illuminance, continuos ¹	(klux)	0.01
Irradiance, continuos ¹	(W/m ²)	73
Illuminance, boosted ¹	(klux)	0.03
Irradiance, boosted ¹	(W/m ²)	154
Illuminance, strobe ¹	(klux)	0.06
Irradiance, strobe ¹	(W/m ²)	335
Diffuser		yes
Collimation film		optional

Mechanical specifications

Height	(mm)	208.0
Width	(mm)	276.0
Thickness	(mm)	24.0
Mass	(g)	1077
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.

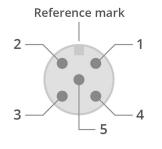
Electrical specifications

Electrical specifications		
Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuos	(mA)	1600
Power consumption, continuos	(W)	38.4
Current, boosted	(mA)	6400
Power consumption, boosted	(W)	76.8
Pear current, strobe	(mA)	3200
Peak power consumption, strobe	(W)	77
Min pulse duration	(μ s)	3
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(ns)	300
Typical jitter	(ns)	10
		PNP logic input,
I/O interface		NPN dimming input,
		analog dimming input
Connector		M12 straight plug
		male connector
Included cable		1x 20 cm pigtail
Eye safety		
Risk group (CEI EN 62471:2010)	Risk group 1	
¹ At emitting surface.		

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



Device side

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

1 0.8 0.6 0.6 0.4 0.2 0.700 750 800 850 900 950 Wavelength [nm]

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.