

LT2BC144108-IR860 | DATASHEET

OPTO ENGINEERING

High uniformity continuous LED backlight, 144 x 108 mm illumination area, IR



SPECIFICATIONS

Lighting specifications

Modules		3x3
Illumination area width	(mm)	144
Illumination area height	(mm)	108
Number of LEDs		432
Light color, peak wavelength		IR, 860 nm
Spectral FWHM	(nm)	30
Illuminance ¹	(klux)	-
Irradiance ¹	(W/m ²)	193
Diffuser		yes
Collimation film		no

Electrical specifications

Supply voltage	(V)	24
Current ²	(mA)	820
Power consumption ²	(W)	19.7
Typical pulse voltage	(V)	34.2
Max pulse current ³	(mA)	1800
Peak power consumption	(W)	61.6
Max duty cycle	(%)	1.5
Max pulse duration	(ms)	1
Connector		M8
Included cable		CBLT003

KEY ADVANTAGES

Excellent uniformity

Test report with measured uniformity

Ultra high-power light output and strobe mode operation

For inspection and measurement of fast moving objects and an extended LED lifetime

Suitable for frequent cleaning

Thanks to the optical grade and scratch resistant protective cover

Wide selection and modular design

Size options range from 48 x 36 to 288 x 216 mm available in red, white, green, blue and infrared

Compact design with reduced thickness (26 mm)

Special continuous alignment mode

Optional integrated collimation film

The LT2BC series offers high power LED backlights designed to provide exceptional illumination performances and excellent uniformity.

Mechanical specifications

Length	(mm)	156.0
Width	(mm)	128.0
Height	(mm)	26.0
Mass	(g)	886
Clamping system		4x M6 threaded holes

Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85 non condensing
IP rating		IP40
Installation		Indoor use only

Eye safety

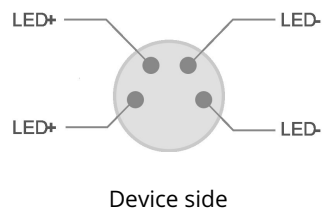
Risk group (CEI EN 62471:2010)	Exempt
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¹ Minimum value, at max driving current, on emitting surface. Where n.a. is reported data is available upon request.

² Tolerance $\pm 10\%$

³ At 25°C. At max pulse width (1 ms), max pulse frequency = 15 Hz.

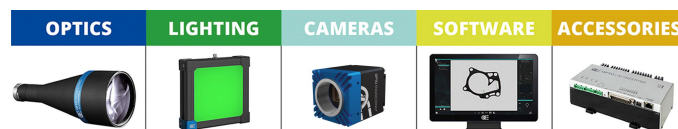
CONNECTOR PINOUT



Function	Cable color
LED +	Brown
LED +	White
LED -	Blue
LED -	Black

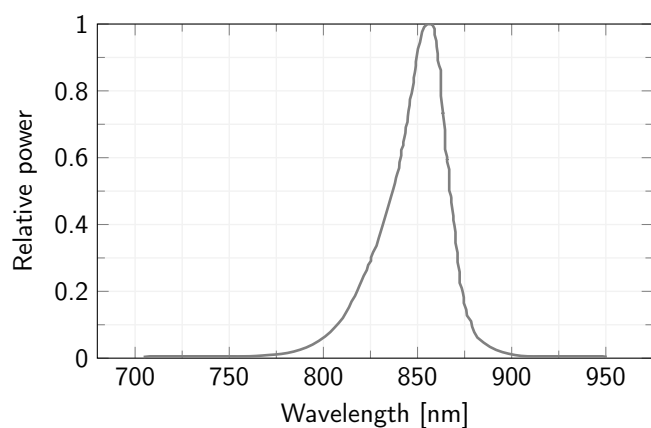
COMPATIBLE PRODUCTS

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



A wide selection of innovative machine vision components.

LED color spectrum



Emission angle

