

LTBP240216-R | DATASHEET

OPTO ENGINEERING

High Power strobed LED backlight, 240 x 216 mm illumination area, red



SPECIFICATIONS

Lighting specifications

Modules		5x6
Illumination area width	(mm)	240
Illumination area height	(mm)	216
Number of LEDs		1440
Light color, peak wavelength		red, 625 nm
Spectral FWHM	(nm)	20
Illuminance ¹	(klux)	n.a.
Irradiance ¹	(W/m ²)	-
Diffuser		yes
Collimation film		no

Electrical specifications

Power supply mode		Strobe only, constant current driving
Peak power consumption	(W)	504.0
Max pulse current ²	(A)	12.6 + 12.6
Typical pulse voltage	(V)	20.0
Max pulse duration	(ms)	1
Max duty cycle	(%)	1.5
Max continuous current	(mA)	150
Estimated MTBF ³	(hours)	> 50000
Connector		M12
Included cable		CBLT005

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

Mechanical specifications

Length	(mm)	252.0
Width	(mm)	236.0
Height	(mm)	26.0
Mass	(g)	2052
Clamping system		8x 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

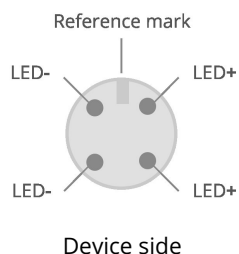
Risk group (CEI EN 62471:2010)	Exempt
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¹ Minimum value, at max driving current, on emitting surface. Where n.a. is reported data is available upon request.

² Models where two currents are listed (such as LTBP240180-R) feature two separate channels.

³ At 25°C

CONNECTOR PINOUT



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

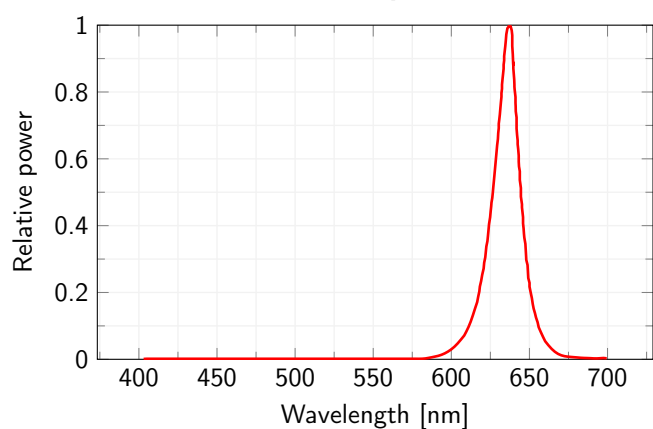
COMPATIBLE PRODUCTS

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

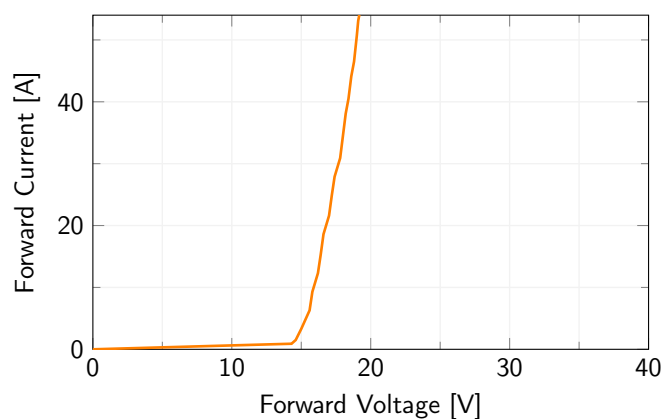


A wide selection of innovative machine vision components.

LED color spectrum



Forward Current Characteristics



Emission angle

