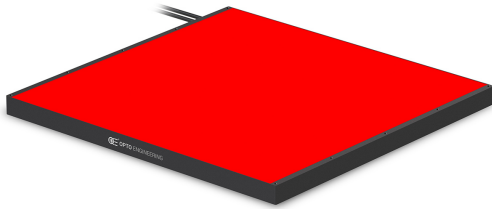


## High-power LED backlights with integrated driver



### SPECIFICATIONS

#### Lighting specifications

|                                      |                     |             |
|--------------------------------------|---------------------|-------------|
| Illumination area height             | (mm)                | 400         |
| Illumination area width              | (mm)                | 400         |
| Number of LEDs                       |                     | 2304        |
| Light color, peak wavelength         |                     | red, 625 nm |
| Spectral FWHM                        | (nm)                | 20          |
| Illuminance, continuous <sup>1</sup> | (klux)              | 14          |
| Irradiance, continuous <sup>1</sup>  | (W/m <sup>2</sup> ) | 63          |
| Illuminance, boosted <sup>1</sup>    | (klux)              | 30          |
| Irradiance, boosted <sup>1</sup>     | (W/m <sup>2</sup> ) | 130         |
| Illuminance, strobe <sup>1</sup>     | (klux)              | 132         |
| Irradiance, strobe <sup>1</sup>      | (W/m <sup>2</sup> ) | 564         |
| 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

|                                |      |  |
|--------------------------------|------|--|
| Operating mode                 |      | Continuous and strobe  |
| Supply voltage                 | (V)  | 24   |
| Current, continuous            | (mA) | 3200   |
| Power consumption, continuous  | (W)  | 77   |
| Current, boosted               | (mA) | 6400   |
| Power consumption, boosted     | (W)  | 154  |
| Peak current, strobe           | (mA) | 25600  |
| Peak power consumption, strobe | (W)  | 614  |
| 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,<br>NPN logic input,<br>analog dimming input |
| Connector                      |      | 2x M12 straight plug<br>male connector                       |
| Included cable                 |      | not included   |

#### Eye safety

Risk group (CEI EN 62471:2010) Exempt

<sup>1</sup> At emitting surface.

**CONNECTOR PINOUT**



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

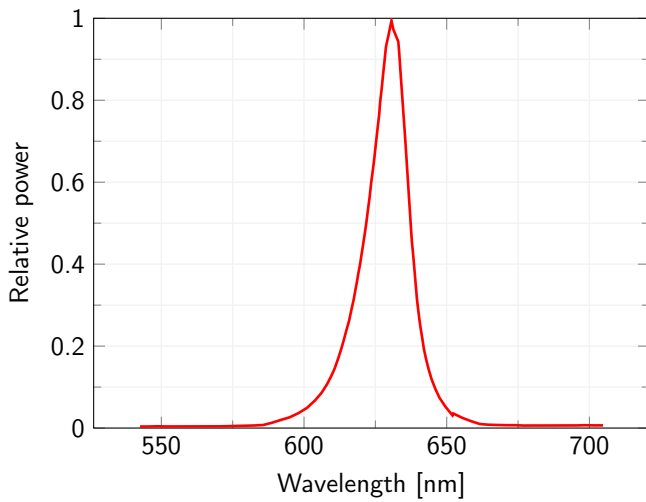
**COMPATIBLE PRODUCTS**

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



A wide selection of innovative machine vision components.

**LED color spectrum**



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.