

Wide Bar Lighting

WBL Series

Innovative LED lighting
for machine vision



Wide bar lightings
in three lengths and various colors

- High light efficiency
- LED controller inside
- Easy-to-use
- Cost saving

With a 45mm wide light field these bar lights are ideal for illuminating larger objects. They provide a large flexibility when used as incident light in a bright field setup. All wide bar lights use the new integrated controller (-s) with four operation modes.

Wide Bar Lighting - WBL Series

Wide bars with direct light emission

The wide bar lights are ideal when illuminating larger objects. The wide aperture of 45mm allows for a larger homogeneous area and much more light compared to small bar lights. In the standard version, the LED light exits directly with an aperture angle of approx. 100°. Wide bars can be used in many different ways: when used as a top light many irradiation angles can be realized with one, two or even four bar lights surrounding an object.

All illuminations of the WBL series are designed for use in the automation industry: the LEDs are installed in a stable, black anodized aluminum housing, the radiation is emitted through a 3mm wide protective acrylic glass screen and the electrical connection is made via an M8 connector, which is widely used in the automation industry.

With an optional foil holder set, additional light beam filters can easily be attached to the lighting. The foil holder can hold up to three foils. Available filters: high transmission circular diffusor with a strong diffusion degree of 90° and a polarizer with a linear polarization in longitudinal direction. You will also find suitable cables and holders in our accessories.

MBJ offers the wide bars in LED color white 5000K (CRI80), red, infrared, green, blue, and yellow in the standard program. The delivery time is 14 days for LED colors white, red and infrared.



The WBL series is equipped with threaded M4 holes at each end of the bar for mounting. In addition, M2.5 threaded holes are provided to attach the foil holder at the two long sides. For all our lighting 2D and 3D files are available for download on our website.

Specification

Material	Anodized aluminum housing	Certifications	CE, RoHS
Connector	M8 socket, male, 4 pin	Degree of Protection	IP54
Supply voltage	24 V DC +/- 5%	Humidity	30% to 70%
Op. Temperature	10° Celsius to 30° Celsius	Accessories	Mountings, Filterholder, Filters

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Standard Model	Light field	Dimension	LED color ¹	Steady power	Price from ²
WBL-0410	45x100 mm	54x110x23 mm	WT, RD, IR, GN, BE, YE	8.0 W	220 €
WBL-0420	45x200 mm	54x215x23 mm	WT, RD, IR, GN, BE, YE	16.0 W	310 €
WBL-0430	45x300 mm	54x310x23 mm	WT, RD, IR, GN, BE, YE	24.0 W	430 €

1) WT=white, RD= red, IR= infrared, GN=green, BE=blue, YE=yellow. Other LED colors on request

2) Price for a white LED, plus VAT and transportation costs

Operation Modes	Mode description
(-s) internal controller with 4 operation modes	24V steady light, dimmable steady light, triggered light and triggered flash light with up to 100% more intensity
(-x) no controller	External LED control is required



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