



New LUMIMAX modular Bar Light of the LBHP series | Source: iim GmbH

LUMIMAX® EXPANDS MODULAR CONCEPT: NEW LBHP BAR LIGHTS WITH FLEXIBLE LENGTHS OF UP TO 4 METERS

Suhl, October 2024. Last year, LUMIMAX® presented a modular lighting concept in the form of the ML series Area Lights to provide a transition from (expensive) customised designs to readily available standard products. The range is now being extended to include the modular LED Bar Light series LBHP. The high-performance Bar Lights can be cascaded up to 4 metres and flexibly configured thanks to a wide range of optical accessories. Light outputs of up to 1 million lux mean this lighting far outperforms conventional bar lighting.

The abbreviation 'HP' in the acronym LBHP stands for 'high performance' and relates not only to the high performance of the new modular Bar Lights. The state-of-the-art high-power LED technology and optimised power electronics mean the lights reach brightness levels of 120,000 lux in continuous operation and even up to 1 million lux in strobe mode. These impressive figures are 'concealed' inside a compact aluminium profile that is not only lightweight, but also flexible in terms of its configuration. Illumination lengths can be individually selected in 100 mm increments, leading to rapid and cost-effective availability as there is no need for specific designs or made-to-order production. The modular concept allows the creation of very long lighting systems with a light field length of two metres or more. As a result, extremely large test objects, such as car body panels or sheet material can be illuminated uniformly using just one lighting system, even from large working distances of over one metre.

LIGHT OUTPUTS OF UP TO 1 MILLION LUX



- The state-of-the-art high-power LED technology and optimised power electronics
- Brightness levels of 120,000 lux in continuous operation and even up to 1 million lux in strobe mode

FLEXIBILITY THANKS TO MODULAR CONCEPT AND OPTICAL ACCESSORIES



- Lengths freely selectable in 100 mm increments
- Attachment optics for optimum focusing of the light

ROBUST AND COMPACT – FOR INDUSTRIAL APPLICATIONS



- Robust aluminum housing (IP50)
- Flexible and space-saving adjustment thanks to compact design and integrated controller



Modular LBHP Bar Light can be cascaded in 100 mm increments up to 2 metres and more | Source: iiM

Flexibility thanks to optical accessories

Another advantage of the new LBHP series is the ability to adapt the lighting flexibly to the relevant application using optical accessories such as lens arrays, diffusers and polarisers. This allows precise control of the light angle and targeted illumination of the test area. Lens arrays, for instance, can be used to gradually reduce the beam angle of the LEDs from 150° to as little as 16° in order to guarantee optimum focussing of the light on the desired distance. Diffusers, polarisers or a combination of the two can also be used, depending on the nature of the surface to be inspected. The selection of different wavelengths from blue (470 nm) to infrared (850 nm) supports a high-contrast representation of the test criteria and therefore reliable evaluation. This adaptability guarantees a reliable solution even for demanding inspection tasks.

Robust and compact – for industrial applications

In addition to flexibility, the lighting design also relies on compactness and light weight, thus facilitating the mechanical integration of the LBHP series – even when there is limited space or rapidly moving processes. Both the rear groove profile and the front mounting holes can be used for mounting. Swivel mounting is also possible using the mounting bracket. Despite their compact size, the bar lights can withstand industrial conditions. The IP50 protection can be extended to IP64, if required. Configurations with IP69K protection will be available for the food and pharmaceutical industries at a future date.

Tried and tested technology for easy integration

In addition to the new mechanical concept, the LBHP series also incorporates tried and tested expertise, such as the standardised M16 connection concept and the integrated controller technology for easy electrical integration and reliable operation in continuous/switch or strobe mode. Owing to extremely short flash times (10 to 750 µs) and brightness levels (up to 1 million lux), this guarantees inspection independent of ambient light without motion blur. Logistics processes, for example, even in the case of large portals, can be carried out reliably.

The new high-performance Bar Lights can cope with small and large test objects and complex test tasks in every respect. For more information on our wide range of products, please contact our sales team or visit our [website](#).

About iiM GmbH and LUMIMAX®

iiM GmbH – part of Union Park's holding company Exaktera – is developer, manufacturer and distributor of high-quality, high-performance products for industrial image processing.

Based in Suhl, Germany, we develop and manufacture high-performance and highly functional LED illumination under the LUMIMAX® brand for Machine Vision applications in a very wide range of industrial sectors, including automotive, semiconductor, pharma, and the food and beverage industry.

A further department develops and markets special measuring technology and peripherals for the cable and wire industry to record geometric features, particularly on insulating covers and cable sheathing, in accordance with standards.

A team of over 80 engineers, technicians and skilled workers assists our customers as a partner when realising their challenges. Certified in accordance with Global Certificate ISO 9001:2015 by DEKRA, iiM GmbH guarantees quality at the highest level.

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