

## **Innovative LED high power light source with up to six wavelengths**

**With the new „LedHUB“ LED light engine, laser- and LED specialist Omicron provides more flexibility in the world of Microscopy and Biotechnology.**

Omicron's innovative „LedHUB LED Light Engine“ represents a new form of LED light source for science and research. The high-performance system can be equipped with one to six LED modules of different wavelengths from UV to the near IR range and offers fast analogue intensity modulation with up to 200KHz and digital modulation with a switching time of  $<2\mu\text{s}$  for each channel. The individual LED modules can easily be exchanged and added by the user. Hence the system can be adapted to changing application requirements and is future-proof.

With a direct and active temperature control of the LED chips it is now possible to keep the power level and the emission spectra of the LED chips stable. This feature guarantees reliable and repeatable results in the customer's applications.

The light of the various high power LEDs is combined in the "LedHUB" with special optics and can be coupled efficiently into quartz glass fibre or liquid light guides. LEDs with up to 5.000 milliwatt of optical output power and wavelengths between 365 and 850nm can be used in the "LedHUB" systems. Through directly accessible filter holders, that can be equipped with 25mm standard filters, the emission of each single LED may additionally be adapted to the application. The modulation is possible via external modulation signals as well as by an internal programmable signal generator. A SYNC in- and output ensures the synchronization of / from external devices like cameras, microscopes or DAC cards.

The device can be conveniently controlled via the integrated RS-232 and USB-2.0 interface, the included software „Omicron Control Center“ or third party software. Typical applications include microscopy, fluorescence analysis and the use as multispectral light source in forensics.

The new "LedHUB LED light engines" are offered with a manufacturer's warranty of three years and are now available.

Further information on Omicron laser products can be found at [www.omicron-laser.de](http://www.omicron-laser.de).

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**About Omicron**

Since 1989, Omicron has been developing, building and producing innovative laser systems. With a highly qualified team Omicron specialized in customized solutions for applications in the fields of medicine, research, biotechnology, such as microscopy and flow cytometry, digital imaging and optical data storage as well as quality assurance and measurement engineering. Product development and production comply with European and US guidelines. A broad band of laser sources in the range of UV VIS/IR is available to satisfy individual customer requirements. Omicron offers single light sources as well as complete system solutions. Omicron pursues the objective of being an industry leader in product development and has not only set trends in laser technology but also has drawn worldwide attention with its developments.