



## Press Release

**SPIE Photonics West | January 25-27, 2022 | Hall D, Booth 3210**

### **Lumics Reveals Improved LuOcean™ Products Higher Powers – More Wavelengths**

***At the forthcoming long awaited in-person SPIE Photonics West exhibition, Lumics reveals its latest additions and improvements to the renowned LuOcean™ product family, Lumics' most successful series of high power fiber coupled diode laser modules.***

Berlin, January 2022 - Lumics is again redefining the benchmark and paving the way for customers to simplify design and manufacturing of innovative diode laser based devices by showcasing its latest additions to the LuOcean™ series. The LuOcean™ laser products are the ultimate choice for applications in medical & life science, and soft material welding & processing.

#### **The M4 Diode Laser Module**

This latest addition to the LuOcean™ product family now offers increased power levels up to 830W ex fiber. The available wavelength range was also increased spanning now from visible 670nm up to far NIR 1940nm. Single emitters electrically wired in series allow for low current despite of high power levels. Just as all the LuOcean™ models also the M4 offers a fiber port for a detachable fiber, as well as the possibility to have up to three independently controllable wavelengths in one module.

#### **Improved power 1940nm (direct diode)**

The improved proprietary chip design allows now for higher power levels up to 45W ex fiber in the largest LuOcean™ package M4. The smaller LuOcean™ packages allow for lower powers starting from 1W and scaling up exactly following customers' requirements.

The built-in single emitters are produced in-house and are carefully burn-in tested to ensure class-leading performance and ultra-long life time. Customers can freely select amongst a wide range of additional signal and sensor features, offered also two-fold for redundancy.

#### **New wavelength 670nm**

The latest addition to the wavelength range is in the visible with red 670nm diodes to be incorporated into all available LuOcean™ package sizes. Highest available power is 68W ex fiber, but any lower power required can be matched exactly.

This red wavelength finds an interesting range of use for laser-tissue related medical developments as well as new challenging applications in industry – speak to one of Lumics' product experts!

**Come and discover the complete LuOcean™ diode laser portfolio at Photonics West, Hall D, Booth 3210.**

**About Lumics**

Lumics GmbH in Berlin is a class-leading manufacturer of diode lasers, fiber coupled single- and multi-mode laser diode modules and complete OEM laser solutions based on Lumics' patented in-house single emitter technology. The company is part of the Berlin.Industrial.Group. (B.I.G.).

Lumics offers strong technical support in all product life cycle phases (pre-design, integration process, after-sales service) and guarantees 100% traceability through individual testing and protocols for each module.

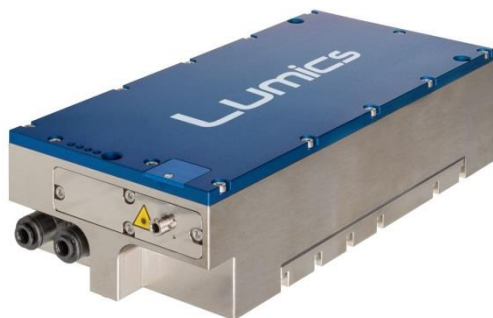
**Editorial Contact:**

Beate Sauter, VP Sales & Marketing, [info@lumics.com](mailto:info@lumics.com)

**Product Information Contact:**

Lumics GmbH | Tel. +49 (0)30 912 074 400 | [info@lumics.com](mailto:info@lumics.com) | [www.lumics.com](http://www.lumics.com)

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**Caption**

The fiber-coupled LuOcean™ M4 Diode Laser Module is available from 670nm up to 1940nm and offers power levels up to 830W as well as the possibility to have up to three independently controllable wavelengths in one module.

Available power level @1940nm up to 45W ex fiber.

Available power level @670nm up to 68W ex fiber.