



## Press Release

**SPIE Photonics West | January 28-30, 2025 | Booth 1259, South Hall**

### **Lumics Reveals the Next Generation of Emitter Technology: New 1720nm Wavelength for Direct High-Power Diode Lasers**

***At the forthcoming SPIE Photonics West exhibition, Lumics reveals the latest addition to its impressive range of diode laser wavelengths: 1720nm. This new diode laser chip will be integrated into the company's multi-emitter LuOcean™ products, Lumics' most successful series of high power fiber coupled diode laser modules***

Berlin, January 2025 - Lumics is again redefining the benchmark and paving the way for customers to develop and manufacture innovative diode laser based devices by showcasing the company's latest addition to its offered wavelength range:

#### **1720 nm**

These edge-emitting laser chips are produced in Lumics' own in-house fab and are carefully burn-in tested to ensure class-leading performance and ultra-long life time. They boast a market-leading conversion efficiency, setting new standards for performance and energy optimization. The emitters will be integrated into the multi-emitter modules of Lumics' most successful product line LuOcean™.

The improved proprietary chip design allows for power levels from few Watt up to impressive 50W out of a 200µm NA0.22 fiber, depending on the package size of the module. Single emitters electrically wired in series allow for low current despite of high power levels, and all modules offer a fiber port for a detachable fiber, as well as customer-selectable signals and sensors. It will be possible to combine the 1720nm wavelengths with other wavelengths in the same module and coupled into the same fiber, yet all of them individually controllable.

This wavelength region shows a couple of very interesting absorption peaks so far hardly accessible by diode lasers. Thus this innovative emitter opens up a world of possibilities across numerous fields. To name just a few: in medical it supports very unique applications in dermatology, in industry it enables specific precision welding processes, in agriculture it can be used for environmental monitoring, and it is a very particular wavelength for optical pumping.

"With the 1720nm emitter, we are offering a versatile and high-performance solution that addresses the evolving needs of industries ranging from healthcare to environmental science," said Beate Sauter, CEO at Lumics. "This development reflects our commitment to pushing the boundaries of diode laser technology and providing our customers with the tools they need to succeed in their respective fields."

**Come and discover this new wavelength and the complete LuOcean™ diode laser portfolio at Photonics West, South Hall, Booth 1259.**

## 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. Vertically integrated in-house capabilities from chip to module ensure consistent supply chain resilience for customers. Lumics 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.



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