

Press Release

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nLIGHT Ships Industry Leading Brightness from Pearl™ Diode Modules for Next Generation Fibre Laser Pumps

Efficient coupling of 100 W in 6.5 mm-mrad delivered

nLIGHT has delivered initial units of the highest brightness ever achieved from a fibre-coupled diode laser to development partners. nLIGHT Pearl fibre-coupled diode lasers produce up to 100 Watts of 976 nanometer light from a 105 micron core fibre at an excitation numerical aperture of 0.12. with a resulting beam product of 6.5 mm-mrad of cladding-free light. The high-power Pearl module is compact (< 100 cm²) and is optimized to meet performance, cost, and reliability demands for the growing fibre laser pump and direct materials processing markets.



Units were exhibited at Laser World of Photonics at Munich in June 2009.

“In addition to high brightness, Pearl overall wall-plug efficiencies exceed 50%,” stated Robert Martinsen, nLIGHT VP of Product Development. “That brightness and efficiency, coupled with industry-leading compact size, cost, power consumption, thermal management and long-term reliability, establishes nLIGHT’s Pearl product series as the most compelling line of high brightness diode lasers in the industry.”

The nLIGHT Pearl product series is based on multiple issued patents and includes nLIGHT’s proprietary nXLT™ single emitter diodes that are resetting reliability and efficiency benchmarks for high-power, fibre-coupled diode lasers. More information on the released Pearl products is available at www.nlight.net.

nLight’s partner distributor for their products in the UK and Ireland are Laser Lines Ltd.

For the full story call Steve Knight at Laser Lines on 01295 672529 or email stevek@laserlines.co.uk

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