

Press Release

For Immediate Release

No. 1

DirectPump 900 – High Power. Narrow Linewidth.

DirectPhotonics's new direct-diode lasers with excellent optical brightness for advanced pumping applications

Berlin, Germany, 1 July 2012 – Direct Photonics has developed the direct-diode laser system *DirectPump 900* which combines 600 W optical power at 976 nm, a narrow linewidth of <5nm and a wide wavelength locking range.

The optical power emerges from a 200µm, NA 0.22 fiber which greatly simplifies integration into customer systems. Other fiber parameters are available upon request.

The highly stable laser is locked to a customer-specific wavelength in the 9xx nm region. The system stays locked within a wide range of the laser currents and temperatures. These stable pumping conditions at very narrow excitation lines are guaranteed – even as environmental parameters change.

Advanced pumping of narrow excitation lines enables new laser schemes with lower quantum defect. These benefits include higher electro-optical efficiency, shorter length of pumped fibers or crystals, and significant reduction of non-linear effects like stimulated Bragg or Raman scattering.

The *DirectPump 900* replaces complex solid-state and fiber laser pump sources. These new direct-diode lasers boost the performance of pulsed fiber lasers with nano, pico and femto second pulses with high peak power. In industrial laser manufacturing, the *DirectPump 900* enables the qualification, burn-in and testing of fiber, disk and solid-state laser systems.

About DirectPhotonics Industries (DPI)

DirectPhotonics is focused on the development and production of ultra-high brightness diode laser systems for industrial and scientific applications. Founded in 2011, the company has their headquarters in Berlin, Germany. For more information about Direct Photonics, including product updates, visit the company's website at www.directphotonics.com.

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