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Coherent Unveils Highest Power 640 nm Diode Laser for Cytometry

Santa Clara, Calif., July 15, 2009 – The new CUBE 640-100 from Coherent, Inc., (Santa Clara, CA) (Nasdaq: COHR) is the highest power 640 nm (red) diode laser module now commercially available. Specifically, this single emitter based, turnkey system offers 100 mW of CW output in a high quality ($M^2 < 1.5$), small diameter beam (diameter = 1.0 mm), making it over twice as powerful as previous products available at this wavelength.

The CUBE 640-100 is primarily intended for flow cytometry applications utilizing dyes originally optimized for the 633 nm output of helium neon lasers. In this context, the high output power of this new laser will deliver higher throughput (scan rate) and improved signal-to-noise. Most importantly, Coherent specifies the diode laser based CUBE 640-100 to have a maximum output wavelength of 644 nm. (As is typical for laser diode modules, the 640 nm is a nominal wavelength specification.) This hard limit ensures high transmission through the laser emission bandpass filters typically used in cytometry instrumentation, as well as excellent blocking by commonly used detector filters. Another key application for the CUBE 640-100 is high throughput screening in drug discovery.

This new laser also leverages the benefits of Coherent's CUBE architecture for digital (bandwidth 150 MHz) and analog modulation (bandwidth 350 kHz), and easy system integration through the use of USB, RS-232 and analog interfaces. It utilizes the same footprint as lower power CUBE lasers, thus facilitating upgrade for systems builders. As with other lasers in this series, the CUBE 640-100 is backed with a one year, unlimited use warranty.

Founded in 1966, Coherent, Inc. is a Russell 2000 Index company and a world leader in providing laser-based solutions to the commercial and scientific research markets. Please direct any questions to Dan Callen, laser diode module product manager, at (503) 454-5728. For more information about Coherent, including product and financial updates, visit our website at <http://www.Coherent.com>.