

**For Immediate Release
No. 1209**

Contacts: Larry Shi
Coherent, Inc.
(408) 764-4130
larry.shi@coherent.com

David Kuntz
Technical Marketing Services
(310) 377-5393
davidkuntz@cox.net

New 525W DPSS Laser Delivers High Reliability for Solar Cell Processing

Santa Clara, Calif., June 15, 2009 – The new Mamba™ from Coherent Inc. (Santa Clara, CA) (Nasdaq: COHR) is a 525 Watt (at 1064 nm), diode-pumped, solid-state laser that delivers an unmatched combination of high reliability, long lifetime and minimal maintenance downtime, and is primarily intended for high throughput materials processing applications such as edge deletion of solar panels and ITO patterning. The exceptional reliability of the Mamba derives from several factors including PermAlign construction for drift-free, long term alignment of its resonator optics, pump diodes fabricated using Coherent's long lived AAA™ material, and indium-free hard solder pump diode packaging for extended lifetime. Furthermore, when pump diode replacement is finally required, the pump modules can easily be replaced in the field for minimal downtime and reduced cost of ownership.

The Mamba is configured as a compact laser head and separate power supply, making it particularly easy to integrate into production machinery where space is a consideration. In addition, the laser is offered with a fiber delivery option. This 600 µm or 800 µm square cross section fiber is specifically designed to optimize process throughput for tasks such as edge deletion. In addition, Mamba boasts a number of other features that maximize throughput, process quality and operational flexibility. These include Pulse OnDemand, which is a suite of features (including single shot and burst mode operation, and first pulse equalization) that make it possible to utilize every pulse produced by the laser. Plus, a patented, optical attenuator is integrated inside the main laser housing, and further facilitates process development and optimization. Coherent also plans to introduce a Mamba laser that offers 325 Watt of output in the green (532 nm) shortly.

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 Larry Shi, Senior Product Manager, at (408) 764-4130. For more information about Coherent, including product and financial updates, visit our website at <http://www.Coherent.com>.