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## **PRESS RELEASE**

For immediate release

April 17, 2009

### **Title: Q-Switched 800-Watt DPSS YAG Laser**

Lee Laser has demonstrated the performance of a new, 800-Watt CW Nd:YAG laser that is capable of Q-switched performance well in excess of 600 Watts average output power at 10 kHz pulse rate. The compact optical resonator of this laser utilizes existing Lee Laser diode-pumped technology, plus some new technology that Lee Laser has developed internally. A major design feature of this laser is the short pulse width capability comfortably less than 70 ns at 10 kHz, without risk of damage to internal optical elements. Pulse instability less than 8% peak-peak has been demonstrated.

This new high-power laser at 1064 nm will give both systems integrators and end-users alike the high average power and high peak pulse power that is required for new emerging micromachining technologies. Among the applications to be pursued will be deep marking and engraving, cutting of hard materials such as tungsten carbide and polycrystalline diamond for machine tool manufacture, flat-panel display (FPD) manufacture, and laser patterning for LCD manufacture.

Electrical power consumption will be a stingy 10 kW, that will make this laser one of the most efficient of its type that is commercially available today. It will be in full production before the end of 2009.

Lee Laser manufactures industrial-grade Nd:YAG lasers for a wide range of micromachining applications, with output power levels now in excess of 1000 Watts at 1064 nm and 300 Watts at 532 nm.

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