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## **NEWS RELEASE**

### **Redfern Integrated Optics, Inc. Releases New ORION™ Module, Product Demonstration at SPIE's Photonics West 2009**

*RIO's demo will feature the new OEM laser module, developed for applications requiring low phase noise and narrow linewidth, under harsh vibration conditions*

**Santa Clara, Calif. – January 22, 2009** – Redfern Integrated Optics, Inc. (RIO), the leading supplier of low noise external cavity lasers for fiber optic sensing, RF photonics and other low noise applications, today announced the ORION™ Module, designated RIO008x. RIO will showcase its new product with a live demonstration of optical stability under harsh random vibration conditions in booth number 6624 at SPIE's *Photonics West* tradeshow in San Jose, Calif., January 24-29, 2009.

RIO's ORION™ Module houses the PLANEX™ laser, low noise laser driver, TEC driver, controller and power supply in an easy-to-use, small form factor OEM module configuration, which simply plugs into any standard power outlet. Communication with the module is accomplished via SPI interface to RIO-supplied Graphical User Interface (GUI) software residing on the user's computer. The module employs laser bias current and temperature adjustment circuitry to accurately control and monitor laser performance, preserving the key characteristics of low phase noise and narrow linewidth. Fiber pigtail options are available, including SMF-28 fiber or PM PANDA fiber, outfitted with an FC/APC connector.

"Our ORION Module signifies the next step in RIO's continuing effort to enable developers of new fiber optic systems based on the proven PLANEX low-noise laser technology," said Dr. Radu Barsan, chairman, president and CEO of RIO. "Following the successful introduction of the RIO Evaluation Module, ORION now delivers a turnkey OEM solution that reliably preserves the performance of the laser in a module that customers can deploy in the field."

New applications emerging in the field of fiber optic sensing include interferometric and Brillouin DTSS systems for Oil & Gas, Security, LIDAR, Test & Measurement, OTDR and Structural Integrity Monitoring. RIO's ORION™ Module is an ideal integrated source for these applications, and is available and shipping now.

#### **About RIO Inc.**

Redfern Integrated Optics, Inc. (RIO) develops and manufactures optical transmitters based on its proprietary planar external cavity laser technology (PLANEX™), which delivers unique price-performance advantages in multiple markets. RIO's product lines include 1550nm single frequency narrow linewidth lasers and modules with very low noise and long-reach 2.5-10 Gbps directly modulated transmitters, with DWDM wavelength stability, at low cost, small size and with low power dissipation. For more information, please visit [www.rio-inc.com](http://www.rio-inc.com).

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