

II-VI Incorporated Introduces Acousto-optic Q-switch Modules for Diode Pumped Solid State Lasers

PITTSBURGH, June 13, 2017 (GLOBE NEWSWIRE) – II-VI Incorporated (NASDAQ:IIVI), a leader in engineered crystals and laser optics, today announced the introduction of its new acousto-optic Q-switch (AOQS) module product line for diode pumped solid state (DPSS) lasers.

The rapid growth of the consumer electronics market is driving the demand for new laser technologies that increase precision machining throughput. II-VI's AOQS modules enable DPSS lasers to generate high energy pulses at rapid intervals to increase the throughput of scribing, drilling and marking. The AOQS modules are designed with low-loss quartz and optical coatings that achieve a very high laser damage threshold rating of 1 GW/cm².

“Our AOQS modules are vertically integrated products that leverage our proprietary process to bond RF transducers to AO crystals, both of which are designed and manufactured in-house,” said Gary Lin, Vice President, II-VI Photop. “These Q-switch modules enable our customers to produce very efficient and highly reliable laser-based precision machining tools, including ultraviolet DPSS lasers that are now rapidly gaining momentum in the market.”

The AOQS modules are conduction cooled and currently available for operation at 40.68 or 80 MHz. These products have demonstrated reliable long term operation and have begun shipping to customers.

II-VI's broad portfolio of components for 1064 nm DPSS lasers includes 808 and 880 nm pump laser diode bars, neodymium-doped gain crystals such as Nd:YVO₄, Nd:YLF and Nd:YAG as well as resonator optics such as high reflectivity mirrors and output couplers. The DPSS laser wavelength can be converted to ultraviolet (UV) at 355 nm using II-VI's lithium triborate (LBO) and beta-barium borate (BBO) crystals. II-VI also offers UV beam delivery optics such as scan mirrors and lenses as well as beam expanders and F-theta lenses.

II-VI at Laser World of Photonics - Munich, Jun. 26-29, 2017, Hall A2, Stand #117

II-VI will exhibit at Laser World of Photonics in Munich one of the broadest portfolios of merchant products for all laser technology platforms employed in high-power or precision materials processing. From ultraviolet to the far-infrared, II-VI's market leading laser optics will be on display along with new products for fiber lasers and some of the most advanced laser heads and beam delivery solutions on the market. In the life sciences area, II-VI's display will consist of spectroscopy optics, flow cells and precision temperature controlled modules to support advances such as in DNA sequencing. II-VI will also show products from epitaxial wafers



to semiconductor lasers that will enable exciting new features such as 3D sensing in the next generation of consumer electronics.

About II-VI Incorporated

II-VI Incorporated, a global leader in engineered materials and opto-electronic components is a vertically integrated manufacturing company that develops innovative products for diversified applications in the industrial, optical communications, military, life sciences, semiconductor equipment, and consumer markets. Headquartered in Saxonburg, Pennsylvania, with research and development, manufacturing, sales, service, and distribution facilities worldwide, the Company produces a wide variety of application-specific photonic and electronic materials and components, and deploys them in various forms including integrated with advanced software to enable our customers. For more information, visit us at www.ii-vi.com.

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