

II-VI Incorporated Introduces 600 Watt Direct Diode Laser Engine

PITTSBURGH, June 15, 2017 (GLOBE NEWSWIRE) – II-VI Incorporated (NASDAQ:IIVI), a leader in laser components and subsystems, today announced that its DirectProcess 900, a direct diode laser engine, is now available with 600 Watt continuous output power, in a smaller form factor and with new network interfaces.

Direct diode laser technology has recently emerged to improve productivity for a growing number of materials processing applications, including aluminum processes in automotive and consumer products. In particular, II-VI's direct diode laser engines enable greater energy efficiencies and improved quality of workmanship in aluminum cutting and welding operations.

"600 Watt output power in a square beam and at aluminum's peak absorption wavelength is very attractive for a broad range of aluminum and aluminum-copper processing applications," said Wolfgang Gries, General Manager, II-VI DIRECTPHOTONICS. "Using GaAs emitters and high power laser optics manufactured in-house, II-VI achieves an unmatched level of vertical integration in its network-ready laser engines aimed at Industry 4.0 smart factories."

Due to their small size and light weight, II-VI's direct diode laser engines can be mounted on robotic arms such that the power of the wavelength-optimized laser diodes are directly transferred to the work piece, achieving very high energy efficiency. Featuring square beams with excellent power uniformity, II-VI's direct diode laser engines enable aluminum cuts with sufficiently smooth edges to reduce or eliminate post process steps.

The DirectProcess 900 can be managed and programmed remotely to perform precisely timed processes through its new TCP/IP and EtherCAT interfaces. II-VI's direct diode laser engines can be deployed along with II-VI's multi-kW laser heads or laser light cables. II-VI can also design and manufacture custom beam delivery solutions by leveraging its broad portfolio of high power laser optics.

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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