

## **II-VI Infrared Introduces Optics for 10 kW Class Fiber and Direct Diode Lasers**

PITTSBURGH, January 5, 2017 (GLOBE NEWSWIRE) – The II-VI Infrared Division of II-VI Incorporated (NASDAQ:IIVI), a world leader in laser optics, today announced the introduction of a new line of optics designed for 10 kW class fiber and direct diode lasers.

The next generation fiber and direct diode lasers have surpassed 10 kW output power as they broaden their range of applications in metal cutting and welding, as well as additive manufacturing. II-VI Infrared's improved lens quality enables these lasers to maintain high reliability at high power levels and over long periods of time.

"II-VI Infrared is a vertically integrated world leader of CO<sub>2</sub> laser optics with our ZnSe optics optimized in the 10 micron wavelength range," said John Ryan, Vice President of Sales, II-VI Infrared. "With our new 10 kW line of optics we now expand into the fast growing market for high power one micron optics for fiber lasers and direct diode lasers."

II-VI Infrared's new line of optics is made from low-absorbing fused silica substrates. The optics undergo magneto rheological finishing (MRF) to achieve lower than  $\lambda/10$  of surface irregularity and less than 1 nm of roughness. With a high performance proprietary IBS coating, they achieve less than 10 ppm of total absorption loss. The new 10 kW optics are available in many complex shapes used in today's high power beam shaping applications such as aspheres, axicons and high aspect ratio lenses.

II-VI Infrared's new line of 10 kW one micron optics complement its existing portfolio of products for fiber and direct diode lasers, which include variable radius mirrors, debris windows, laser processing heads and optics to fiber-couple direct diode lasers.

II-VI Infrared will showcase its new 10 kW one micron optics at SPIE Photonics West, January 31 - February 2, 2017, in San Francisco, CA, South hall, booth # 1833.

### **About II-VI Infrared**

II-VI Infrared is the world leader in laser optics, delivering an unbeatable combination of innovation, quality, and expertise. II-VI Infrared also delivers the largest vertically integrated CO<sub>2</sub> laser optics manufacturing process - from raw materials to finished coated products - in the world. An optics foundry to laser original equipment manufacturers (OEMs) the world over, consistently building optics to spec with consistent performance and quality, with products ranging from spherical and aspherical lenses for high power 1um lasers to replacement CO<sub>2</sub> laser optics and nozzles, lenses, partial reflectors, windows, beam splitters,

mirrors, beam expanders, reflective phase retarders, scanning-laser system optics, diamond-turned custom optics, IR optical materials (ZnSe, ZnS, ZnS MS, CVD Diamond), and more. Our products and reputation make us the number-one supplier to OEMs of CO<sub>2</sub> laser systems worldwide, while our capabilities are without rival in the industry.

### **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.

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