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At CLEO (the Conference on Lasers and Electro-Optics) today, IPG Photonics Corporation, the leader in fiber lasers, introduced a new series of single frequency Erbium fiber lasers operating at 1550nm with a linewidth of less than 5 kHz. The new single-frequency lasers are ideal choices for interferometry, coherent beam combining, free-space communication and sensing applications.

The ELR-SF Series of Erbium fiber lasers is available with output powers from 1 Watt to 50 Watts for randomly polarized models and from 1 Watt to 20 Watts for linearly polarized models. Offered in bench-top or rack mounted configurations, the ELR-SF Series has an easy-to-use front panel interface which includes a display monitor, on/off key switch and power control. An RS232 and GPIB interface allows for effortless integration into the user's set-up. Besides the 5kHz linewidth version, IPG also offers the ELR-SF Series with 100kHz linewidth.

"We developed these lasers for customers requiring real single frequency (<5kHz) linewidths for their experiments in 1550nm region" stated Dr. Denis Gapontsev, Vice President of Research and Development at IPG. He continued "these users want to discretely select a specific wavelength to increase system resolution. Now, we have further improved our previous Erbium laser line with less than 300 kHz linewidth, by introducing the ELR-SF Series that delivers single frequency linewidths of less than 5 kHz."

IPG's monolithic, fiber-to-fiber design means no optics to align or maintain and no diode bars to replace. IPG's products are entirely solid state and easy to operate and set up.

About IPG Photonics

IPG Photonics has been a global leader for over thirteen years in the design and manufacture of high performance fiber lasers, fiber amplifiers, and Raman pump lasers for materials processing, aerospace, test and measurement, and other commercial applications.

IPG's proprietary technology, materials science expertise and vertically integrated manufacturing operations enable IPG to produce the world's largest range of cost-effective high and low power fiber lasers, and amplifiers with superior efficiency, performance, reliability and quality.

IPG Photonics has its world headquarters in Oxford, Massachusetts and manufacturing facilities and sales operations in Massachusetts, Germany, Russia, Italy, Japan, India, Korea and the United Kingdom. For more information, visit http://www.ipgphotonics.com/. IPGP-G

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