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MKS Announces Ophir® Large Aperture Laser Power/Energy Sensor for Pulsed Lasers

Andover, MA – September 11, 2019 – [MKS Instruments, Inc.](http://www.mksinst.com) (NASDAQ: MKSI), a global provider of technologies that enable advanced processes and improve productivity, has announced the **Ophir® L2000W-PF-120 Laser Power/Energy Sensor**, a water-cooled sensor for measuring large pulsed lasers. The thermal sensor measures powers from 1W to 2000W and energies from 6J to 6000J over the spectral range of 0.3µm to 2.2µm. The L2000W-PF-120 features a large 120mm aperture to accommodate high energy densities and short pulses. A fast, 7 sec response time balances the need to measure fast drifts and instabilities with the ability to handle high energy levels.

The L2000-PF-120 laser sensor is designed for use with large diameter pulsed ns or ps lasers. Such short pulses can induce optical damage. To address this, the sensor features a PF type volume absorber that is able to withstand higher average energies and energy densities, up to 3J/cm².

“The growing demand for increased precision and faster, more efficient processing has spurred growth in high power lasers in a variety of applications, including additive manufacturing and laser welding,” said Reuven Silverman, General Manager for the Ophir brand. “The L2000W-PF-120 is designed for such high power lasers and demonstrates Ophir’s continued dedication to additive, automotive, and high power applications.”



The L2000-PF-120 includes a “Smart Connector” interface that operates with the company’s **Centauri, StarBright, Vega, Nova II, and StarLite** smart displays, and **Juno and Juno+** compact USB PC interfaces. Users can choose between a number of data display formats, including Digital with Bargraph, Line Plot, Pulse Chart, and Real Time Statistics. The displays also feature sophisticated logging of power and energy, statistics, histograms, and more, as well as advanced math functions. The display is automatically configured and calibrated when plugged into one of the company’s laser measurement heads.

Availability

The **Ophir L2000-PF-120 Large Aperture Laser Power/Energy Sensor** is available now.

L2000-PF-120 laser power/energy sensor data sheet: <http://ow.ly/3nZC50vGiJ6>

About MKS Instruments

MKS Instruments, Inc. is a global provider of instruments, subsystems and process control solutions that measure, monitor, deliver, analyze, power and control critical parameters of advanced manufacturing processes to improve process performance and productivity for our customers. Our products are derived from our core competencies in pressure measurement and control, flow measurement and control, gas and vapor delivery, gas composition analysis, residual gas analysis, leak detection, control technology, ozone generation and delivery, power, reactive gas generation, vacuum technology, lasers, photonics, sub-micron positioning, vibration control, optics and laser-based manufacturing solutions. We also provide services relating to the maintenance and repair of our products, installation services and training. Our primary served markets include semiconductor, industrial technologies, life and health sciences, research and defense. Additional information can be found at www.mksinst.com.

About the Ophir Brand

Ophir is a brand within the MKS Instruments Light & Motion division. The Ophir product portfolio consists of laser and LED measurement products, including laser power and energy meters, laser beam profilers measuring femto-watt to hundred-kilowatt lasers, high-performance IR and visible optical elements, IR thermal imaging lenses and zoom lenses for defense and commercial applications, OEM and replacement high-quality optics and sub-assemblies for CO₂ and high-power fiber laser material processing applications. Ophir products enhance our customers’ capabilities and productivity in the semiconductor, industrial technologies, life and health sciences, research and defense markets. For more information, visit www.ophiropt.com.

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