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## MKS Announces Ophir® LP2 Power/Energy Sensor with Very High Damage Threshold for High Power Density and Long Pulse Lasers

Andover, MA – September 24, 2018 – [MKS Instruments, Inc.](http://www.mksinst.com) (NASDAQ: MKSI), a global provider of technologies that enable advanced processes and improve productivity, has announced the **L50(150)A-LP2-35**, the newest addition to the Ophir® line of LP2 laser power/energy sensors with high damage threshold. The L50(150)A-LP2-35 is a compact, thermal measurement sensor for use with high power density and long pulse lasers. It features an LP2 coating that provides the highest damage threshold in the industry, 33kW/cm<sup>2</sup> at full CW power of 150W power. The coating also reduces reflection, absorbing 95% at most wavelengths, and is spectrally flat at ±1% from 0.25µm to 2.2µm

The L50(150)A-LP2-35 is a compact device measuring 64x64x66mm. It features a 35mm aperture and can measure laser power from 100mW to 50W continuously, and up to 150W intermittently. It can also measure power up to 4000W from a short 0.4s exposure to the laser. The sensor measures laser energy from 40mJ to 3000J.

The new LP2 coating offers very high absorption, which reduces dangerous and often harmful back reflection. The coating also allows the sensor to measure concentrated, lower power beams and short exposures of higher power.

All Ophir thermal sensors feature a “Smart Connector” interface that operates with the company’s **Centauri**, **StarBright**, **Vega**, **Nova II**, and **StarLite** smart displays, and **Juno** compact USB PC interface. Choose between a variety 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 L50(150)A-LP2-35 laser power / energy sensor is available now.

DATA SHEET: <http://ow.ly/8IJU30ITp0K>

LP2 VIDEO: <http://ow.ly/eu0c30cK8GE>

### **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 and optics. We also provide services relating to the maintenance and repair of our products, installation services and training. Our primary served markets include the semiconductor, industrial technologies, life and health sciences, research and defense. Additional information can be found at [www.mksinst.com](http://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 CO<sub>2</sub> 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](http://www.ophiropt.com).

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