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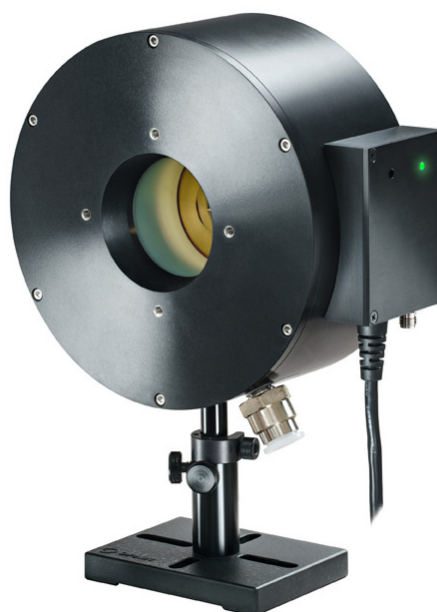
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## MKS Announces Ophir® 16K-W High Power Laser Sensor Featuring Fast Response Time and High Damage Threshold

Andover, MA – July 22, 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® 16K-W High Power Laser Sensor**, a compact sensor for measuring very high power lasers. The water-cooled thermal sensor measures powers from 100W to 16kW over the spectral range of 0.8 $\mu$ m to 2 $\mu$ m and 10.6 $\mu$ m. A relatively large, 55mm aperture is insensitive to beam size or angle of divergence. The sensor delivers a fast, 3.5 sec response time. A deflecting cone and annular absorber can withstand high power densities to 10kW/cm<sup>2</sup>.

The 16K-W laser power sensor's water circuit is designed to reach approved water flow rates with lower pressure requirements. The sensor also features an over temperature sensor that triggers an LED indicator, audible alarm, and M8 3-connector interlock to protect the system from low water flow or flow stoppage.

All Ophir thermal sensors include 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. 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 **Ophir 16K-W High Power Laser Sensor** is available now.

16K-W high power laser sensor data sheet: <http://ow.ly/VwKc50uULq8>

### **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](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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