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## MKS' Ophir® Business Unit Announces Compact Laser Power Sensor for Very High Powers to 15K-W

Andover, MA, April 18, 2017 – [MKS Instruments, Inc.](http://www.mksinst.com) (NASDAQ: MKSI), a global provider of technologies that enable advanced processes and improve productivity, has announced the 15K-W-BB-45 from Ophir®, a compact, water-cooled, thermal laser power measurement sensor that handles very high powers up to 15,000W.

The 15K-W-BB-45 is a high damage threshold sensor that measures continuous laser power from 100W to 15,000W over the spectral range from 0.8 to 2 $\mu$ m and 10.6 $\mu$ m. The sensor features a deflecting cone and annular absorber that withstands high power densities up to 10kW/cm<sup>2</sup>.

Designed for continuous use with high laser powers, the NIST-calibrated 15K-W-BB-45 is highly linear, providing precision readings of power stability over time with no drift. A standard 5-meter cable is included for connecting to a laser meter or PC interface, such as Ophir's StarBright, Nova II, Vega, and Juno. Each meter features a "Smart Connector" interface that automatically configures and calibrates the display when plugged into one of the company's measurements sensors.

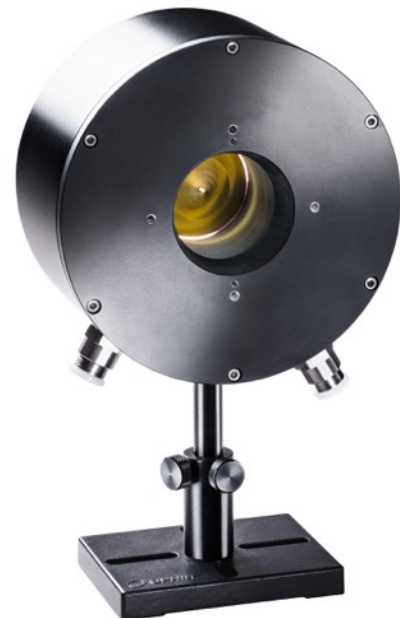
### Availability & Pricing

The 15K-W-BB-45 laser power/energy sensor is available now. OEM prices available on request.

Data Sheet: <http://ow.ly/UPVH309sz6d>

### About MKS Instruments

MKS Instruments, Inc. (NASDAQ: MKSI) is a global



provider of instruments, subsystems and process control solutions that measure, control, power, monitor, and analyze critical parameters of advanced manufacturing processes to improve process performance and productivity. 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 and information technology, ozone generation and delivery, RF & DC power, reactive gas generation, vacuum technology, photonics, sub-micron positioning, vibration isolation and optics. Our primary served markets include semiconductor capital equipment, general industrial, life sciences and research. Additional information can be found at [www.mksinst.com](http://www.mksinst.com).

### **About the Ophir Brand**

With over 40 years of experience, the Ophir brand comprises a complete line of instrumentation, including power and energy meters and beam profilers. Dedicated to continuous innovation in laser and LED measurement, the company holds a number of patents, including the R&D 100 award-winning BeamTrack power/position/size meters; BeamWatch®, the industry's first non-contact, focus spot size and position monitor for lasers in material processing; and Spiricon's Ultracal™, the baseline correction algorithm that helped establish the ISO 11146-3 standard for beam measurement accuracy. The Photon family of products includes NanoScan scanning-slit technology, which is capable of measuring beam size and position to sub-micron resolution. The company is ISO/IEC 17025:2005 accredited for calibration of laser measurement instruments. Their modular, customizable solutions serve manufacturing, medical, military, and research industries throughout the world. For more information, visit <http://www.ophiropt.com/photonics>.

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