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MKS Announces Ophir® Centauri, Portable Laser Power / Energy Meter with Sophisticated Graphical Display and Advanced Math Functions

San Francisco, CA – January 30, 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 **Ophir® Centauri** at Photonics West 2018, a compact, portable laser power / energy meter for precise measurements of laser performance over time. The Centauri features a large, full-color, seven-inch touch-screen for visual review of data using a wide range of graphical display formats, such as Digital with Bargraph, Pulse Chart, and Real Time Statistics Displays. Advanced math functions include Density, Scale Factor, and Normalize Against Baseline. Available in single and dual-channel versions, the Centauri is compatible with all standard Ophir thermal, photodiode, and pyroelectric sensors, including the award-winning BeamTrack power / position / size sensors.

“Generally, smaller meters have smaller screens and larger screens are only found in bigger and bulkier equipment,” stated Gary Wagner, General Manager, Ophir Photonics (U.S.). “The Centauri changes all that with its sleek, modern design. It combines a big screen with a small form factor. That makes it easy to read measurements and to relocate the meter between work stations. Add to that the meter’s sophisticated graphical displays and advanced processing and you have all the



functionality of a high-end, benchtop instrument in a compact, portable meter.”

The Centauri’s graphical functions include Digital with Bargraph, Analog Needle, Line Plot, Pulse Chart, Pass / Fail, Position, Stability, and Real Time Statistics displays. The dual channel option supports split and merged graphical displays. Sophisticated power and energy logging allows logging of every point at up to 10kHz. The Centauri’s math functions can be mixed together and the results displayed graphically and logged.

Outputs include USB and RS232 for real-time integration into larger systems and USB Flash Drive output for nearly unlimited data storage. A TTL output can be used in conjunction with Pass/Fail limits to inform an outside controller when the source is out of bounds.

Availability & Pricing

The Centauri laser power / energy meter is available now. OEM prices available on request.

Centauri Laser Power / Energy Meter DATA SHEET: <http://ow.ly/tkQ030hHkWW>

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.

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, MKS, through its Ophir brand, 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 Ultracal™, the baseline correction algorithm that helped establish the ISO 11146-3 standard for beam measurement accuracy. The NanoScan family of scanning-slit

technology products are capable of measuring beam size and position to sub-micron resolution. The Ophir Optics products include high performance IR thermal lenses and optical elements for the defense, security, and commercial markets, as well as high quality optics for high power CO² lasers and 1 micron lasers for cutting, welding, drilling, and 3D printing systems. Ophir 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/>.

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