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MKS Announces Ophir® Compact InGaAs Camera-Based Beam Profiling Systems for Eye-Safe Military, Telecom, and Medical Laser Applications

Andover, MA – May 29, 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® SP1201** and **SP1203**, compact, InGaAs camera-based beam profiling systems for real-time viewing and measuring of the optical performance of laser beams. Designed for high sensitivity imaging, the SP1201 features a QVGA resolution InGaAs camera and the SP1203 features a high-resolution VGA InGaAs camera; both also include **BeamGage® Professional** beam profiling software. The cameras accurately capture and analyze wavelengths from 900nm - 1700nm. They feature a compact design, small pixel pitch (15µm – 30 µm), high frame rates in excess of 60 frames per second, excellent signal-to-noise ratio, and a high-speed GigE (Gigabit Ethernet) interface. They are ideal for measuring CW and pulsed laser profiles in eye-safe military, telecom, and medical laser and LED applications, as well as for co-alignment of laser sources.

Both systems incorporate BeamGage® Professional, the industry's most advanced beam analysis software. BeamGage includes a rich graphical interface and a comprehensive set of algorithms and calculations needed to make accurate, ISO measurements, such as such as beam size, shape, uniformity, divergence, mode content, and expected power distribution. The software provides advanced



image processing and features the company's patented UltraCal™ algorithm for the industry's highest accuracy measurements. BeamGage Professional also includes such capabilities as partitioning of the camera output for separate analysis of multiple laser beams from sources such as fiber, a .NET interface for full remote control when integrating beam analysis into an automated application, and camera sharing.

The SP1201 and SP1203 also include a high-speed GigE Power Over Ethernet (POE) interface for long cable lengths and easy power supply placement. Triggering allows for the capture of every pulse of a pulsed laser system. The system also supports automatic selection of the best NUC (non-linear uniform correction) look-up table for gain and exposure settings.

Availability

The **Ophir SP1201** and **SP1203 InGaAs camera-based beam profiling systems** are available now.

SP1201 beam profiling data sheet: <http://ow.ly/MJCn50ufaJd>

SP1203 beam profiling data sheet: <http://ow.ly/k0gg50ufaKA>

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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