



2 Tech Drive, Suite 201
Andover MA 01810
www.mksinst.com

Contact:
Reuven Silverman, General Manager, Ophir
reuven.silverman@ophiropt.com

Shari Worthington, PR
sharilee@telesian.com

MKS Announces New Ophir® High Resolution Beam Profiling Camera with USB 3.0 Interface for Measuring CW and Pulsed Lasers

Andover, MA – June 26, 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 new **Ophir® SP920 USB 3.0 Silicon CCD High Resolution Beam Profiling Camera** at Laser World of Photonics. The SP920 camera accurately captures and analyzes wavelengths from 190nm - 1100nm, with enhanced sensitivity at 1070nm. Based on a compact design, the camera features a wide dynamic range, unparalleled signal to noise ratio, USB 3.0 interface, and BeamGage® beam analysis software, the most advanced beam analysis software in the industry. The SP920 is ideal for measuring CW and pulsed laser profiles in such high-speed applications as medical imaging, microscopy, or micromachining.

The new **SP920** beam profiling camera includes a high-speed USB 3.0 interface for transferring data at up to 5 Gbit/s, approximately 10 times faster than USB 2.0. Able to handle a larger spot size range than traditional cameras, it delivers 1624 x 1224 pixel resolution with a 4.4µm pixel pitch for measuring beam widths of 44µm - 5.3mm. It supports frame rates up to 15 fps at full resolution. It also includes a photodiode synch to capture scattered laser light at even the most challenging nanosecond pulse rates.

“The Ophir SP920 combines the advantages of a high resolution CCD camera with an excellent signal to noise ratio and the ubiquity and speed of a USB



3.0 interface,” said Reuven Silverman, General Manager for the Ophir brand. “The special algorithms we’ve developed for this camera provide improved performance for NIR wavelengths.”

The **SP920** USB 3.0 CCD camera is supported by BeamGage® beam analysis software. **BeamGage Standard** beam analysis software includes all the algorithms and calculations needed to make accurate, ISO approved laser beam measurements. The software provides advanced image processing features, NIST-traceable power measurements, trend charting, data logging, pass/fail production testing, and multilingual support for English, Japanese, and Chinese. **BeamGage Professional** beam analysis software adds 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.

Availability

The **Ophir SP920 USB 3.0 Silicon CCD beam profiling camera** is available now.

SP920 beam profiling camera data sheet: <http://ow.ly/bVzt50uvFFe>

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.

###

Sales Inquiries: sales@us.ophiropt.com

For more information, contact:

Reuven Silverman, General Manager
Ophir Business Unit (U.S.)
3050 North 300 West, North Logan, UT 84341
Tel: +1 435-753-3729
E-mail: reuven.silverman@ophiropt.com
www.ophiropt.com/photonics

Shari Worthington, PR
Telesian Technology
49 Midgley Lane, Worcester, MA 01604
Tel: +1 508-397-6345
E-mail: sharilee@telesian.com