



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

Contact:
Kenneth Ferree, Director of Sales, Ophir Products
kenneth.ferree@us.ophiropt.com

Shari Worthington, PR
sharilee@telesian.com

MKS Announces New Ophir® High Resolution Beam Profiling Camera with GigE Interface for High-Speed Applications

Andover, MA – July 31, 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 new **Ophir® SP920G GigE Silicon CCD High Resolution Camera** designed specifically for industrial laser beam profiling applications. The camera accurately captures and analyzes wavelengths from 190nm - 1100nm. It features a compact design, wide dynamic range, unparalleled signal to noise ratio, and high-speed GigE (Gigabit Ethernet) interface. The SP920G is ideal for measuring CW and pulsed laser profiles in such high-speed applications as laser cutting of medical devices or welding of dissimilar materials.

The new **SP920G** beam profiling camera includes a high-speed GigE interface, allowing it to leverage the benefits of higher speed combined with industry standard Ethernet's ready availability, broad compatibility, and lower cost. The camera delivers 1624 x 1224 pixel resolution with a 4.4µm pixel pitch for measuring beam widths of 44µm - 5.3mm. It also includes a photodiode synch to capture scattered laser light at even the most challenging nanosecond pulse rates.

“The Ophir SP920G combines the advantages of a high resolution CCD camera with an excellent signal to noise ratio and the flexibility and speed of a GigE interface,” said Reuven Silverman, General Manager at Ophir. “The GigE interface allows the camera to be used over larger distances from the laser to the PC, enabling beam measurement



that could – due to safety or spatial concerns – not be possible via USB interfaces. The speed and flexibility also simplify OEM applications in manufacturing and plant engineering, reinforcing Ophir’s commitment to bringing world-class solutions to the industrial market.”

The **SP920G** GigE CCD camera is supported by BeamGage®, the industry's most advanced beam analysis software. **BeamGage Standard** 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** 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 SP920G GigE Silicon CCD beam profiling camera** is available now.

SP920G beam profiling camera data sheet: <http://ow.ly/SKFF30I8IWD>

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 and optics. We also provide services relating to the maintenance and repair of our products, installation services and training. Our primary served markets include the 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:

Kenneth Ferree, Director of Sales

Ophir Business Unit (U.S.)

3050 North 300 West, North Logan, UT 84341

Tel: +1 435-753-3729

E-mail: kenneth.ferree@us.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