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MKS Announces Ophir® LBS-300s, New Beam Splitter Finds Focus Spots with Shorter Working Distances

Andover, MA – December 12, 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 **Ophir® LBS-300s**, a compact, portable laser beam splitter for handling small beam diameters and a wide range of powers. The LBS-300s measures laser beams with diameters up to 15mm and powers from 10mW to 400W. It is designed with a shorter distance from the input surface to the camera array to accommodate finding focus spots with shorter working distances. This makes the LBS-300s ideal for enclosed workstations, such as micromachining, microwelding, and medical device manufacturing.

“Reduction of the laser power before reaching the camera is often times required to obtain a usable signal, one that is not saturating or damaging the camera,” stated Gary Wagner, General Manager, Ophir Photonics (U.S.). “The LBS-300s beam splitter reduces laser power by first sampling the beam two times, and then absorbing the beam with combinations of optical density filters. It measures high powers and small spots with the added benefit of a portable form factor that can easily be moved from one camera to the next.”

The LBS-300s allows users to control and adjust laser beam output power reaching the camera. Approximately 99% of the beam is transmitted through each



beam sampler with 0.01% passed on to the camera. The beam sampler provides a beam image that is polarization corrected to restore the polarization components of the original beam.

The LBS-300s beam splitter attaches to C-mount, CS-mount, or Ophir mount cameras. A set of adjustable ND filters are provided for final intensity adjustments before the beam reaches the camera imager.

Availability & Pricing

The LBS-300s is available now. OEM prices available on request.

LBS-300s Beam Splitter DATA SHEET: <http://bit.ly/2Ak21C6>

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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