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WEBINARS

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Principles of Laser Beam Profiling

Wednesday, September 16, 2020 1:00 PM - 2:00 PM EDT

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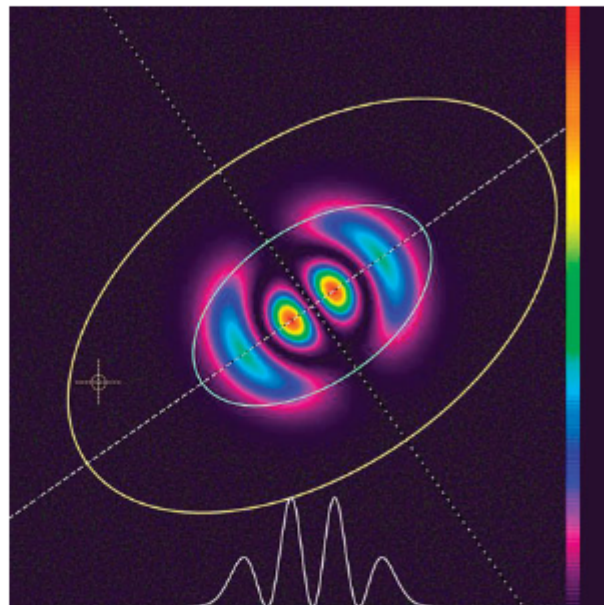
.: About This Webinar

Beam profiling describes the measurement of the spatial distribution of power of a laser beam. Laser users often wonder if they need to profile their lasers but may have nagging doubts as to why. That is understandable, since beam profiling involves a seemingly bewildering array of techniques and specifications. And while beam profiles often involve interesting pictures, it is not always clear how to extract useful results. In this webinar, Derrick Peterman, Ph.D., of Ophir, will outline the standard techniques involved with beam profiling and the key practices that produce reliable beam profiling results.

Peterman will discuss the data obtained from beam profiles and how it is used to make technical decisions. He will cover the two main families of beam profiling instrumentation: sensor arrays and scanning apertures. In addition, he will dive into how to attenuate the beam properly to obtain a reliable profile, an underappreciated aspect of beam profiling. Peterman will conclude with real-world examples where the beam profiles unlocked key insights about the performance of the laser or optical system.

The webinar will close with an open question-and-answer session.

Pictured: Beam gage. Courtesy of Ophir.



Who should attend:

This talk is intended for those interested in how beam profiling could help them better understand their laser, as well those already performing these measurements looking for a refresher course on the technology. R&D, engineering, manufacturing/production, test and measurement/QC professionals whose work involves cameras, detectors or sensors, lasers or laser systems.

About the presenter:

Peterman is sales director, Americas, for Ophir, an MKS Instruments company. He has worked with laser engineers and scientists on laser beam profiling applications for over 20 years. He can be reached at derrick.peterman@mksinst.com.

About Ophir:

Ophir is a brand within the MKS Instruments Light & Motion division. Products include laser and LED measurement systems, including laser power and energy meters, laser beam profilers measuring femtowatt 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 subassemblies for CO₂ and high-power fiber laser material processing applications.

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