





# Laser Beam Diagnostics

In every laser application, the laser beam profile provides valuable information for the most efficient use of the laser. By monitoring the laser beams spatial profile, circularity, centroid, astigmatism and M2 values, you have early warning of any problems with the laser and entire beam delivery optical system. This relates to increased quality, process reliability, and reduced scrap.

The **Haas Laser Technologies** Laser beam Analyzer System is modular design. The system includes Software, Cameras, Beam Reduction Optics, Attenuation modules and filters which enable "real-time" laser beam diagnostics from low to high power CW and pulsed lasers. The design provides both near-field and far-field instantaneous laser beam measurement, analysis and monitoring with "*no moving components*".





The **BA-CAM** and **BWA-CAM** software is designed based on ISO 11146 and ISO 13694 international standards. Full image based second moment techniques, knife edge and equation fitting (Gaussian, Super Gaussian, and Super Donut) techniques are used to determine quick and reliable standard beam parameters.

Calculated results can be viewed in tabular form as well as logged to view changes over time. Visualization windows include X and Y axis plots, 3D view of laser beam, histograms and database reports.

Contact us today to discuss the best options for your specific application.

1

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