Beam Profilers & High Power Beam Analysis

High Power Beam Analysis (Partial Lineup)

Beam Analyzer HP
High power measurements up to 4 kWatt based on beam sampler technology combined with pressurized air cooling will measure beam profile in real time and relative power fluctuation.

BeamOn U3 HP
A full power measurement system based on a high resolution camera combined with our patented technology of sampling and cooling will measure up to IR wavelengths of 1.6 microns.

BeamOn X HP
Simplified version of Beam Analysis when compared to BeamOn U3 offering an excellent price-performance ratio.

Microbeam HP
A unique microbeam analyzer for relatively small focused beams down to less than 5 microns, power level exceeding 100 watts.

LAM U3 - Analyzer
New instrument especially designed for LAM - Laser Additive Manufacturing. Measuring critical parameters such as beam size, accurate beam position and power.

- *A full family for testing High Power laser beams used for material processing.*
- *Online measuring of beam profile and absolute power for Beam Analyzer HP detectors family.*
- *Measurement of M² and accurate location of beam waist for laser printing technology.*
- *Our products measure High Power beams starting from 5 microns up to 9 millimeters.*

Beam Analyzers (Partial Lineup)

M2 Beam
Multi-axis knife edge scanning laser beam profiler extended to measurements of M², versions for CW or pulsed beams

BeamOn X
1/1.8" sensor size. 1.3 Megapixel, available as a Stand-alone unit for convenience.

BeamOn LA U3
A beam diagnostics measurement system for real-time measurement of continuous or pulsed Large Laser beams (up to 45 mm).

uBeam
A beam diagnostics measurement system for real-time measurement and display of small CW or pulsed lasers in the sub-micron range, fiber optic and laser diode beam profiles.

BeamOn U3
A 2.35 Megapixel Wide Spectral Range detector capable of measuring beams up to 1.6 microns with full setup of accessories for various applications.

- *A complete family of Beam Profilers offering technologies such as scanning knife-edge with tomographic beam reconstruction, wide spectral range unprecedented for a single device from 190 – 1100, 800-1800, 1200-2700 nm.*
- *Beams from under 0.5 microns up to 45 mm and a full set of attachments (not shown) for M²* measurement and other sophisticated applications (CW or pulsed).

DUMA OPTRONICS LTD.

Website: http://www.dumaoptronics.com

E-mail: sales@duma.co.il

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Optical Beam Positioning & Alignment

SpotOn Line (Partial Lineup)

SpotOn Analog
A complete solution for fast and extremely accurate beam positioning. The system measures both optical beam position and power.

SpotOn Mobile
High accuracy compact beam positioning system with Nexus7 PC Tablet included.

LaserOn
Compact visible laser diode (635nm), with built-in screws for fine beam direction adjustment.
Completing usage for positioning.

SpotOn LA
Large aperture exceeding 100 mm of beam positioning.

SpotOn USB 2.0
A portable, fast and accurate optical beam positioning system (down to 0.1 microns) having a USB2.0 interface.

- *A full family of Optical Beam Positioning, including various detector types such as: Lateral effect, centrally perforated four quadrant, 4x4 mm up to 100 mm size and CCD.*
- *Simultaneous operation of several detectors.*
- *Fast acquisition time up to 60 kHz.*
- *Calibrated lasers for alignment reference.*

Alignment Line (Partial Lineup)

Total Station Autocollimator
A combination of Electronic Autocollimator with laser beam analysis, centering & alignment, remote mechanical measurements.

Autocollimator HR
Extremely accurate large aperture autocollimator, resolution down to 0.01 seconds.

Wide Field of View Electronic Autocollimator
The unrivaled USB3.0 device combines a Wide Field of View with a large aperture and extreme resolution of 0.01 seconds

Laser Analyzing Telescope
Beam characterization telescope for attitude measurements as well as degree of collimation, resolution down to 1 microradian.

AlignMeter
A unique instrument for simultaneous measurements of attitude and position of incoming laser.
New – Wireless Version

- *A full alignment line is offered combining autocollimation principles with laser alignment, yielding extreme accuracies in angular measurement and offering capabilities of interalignment between several lines of sights with resolutions in the microradian range.*
- *Moreover, full beam divergence and attitude characterization is available.*
- *Unique IR (up to 850/1060 nm) autocollimator and laser analyzing telescope are revolutionizing the field.*

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