Beam Profilers & High Power Beam Analysis

High Power Beam Analysis



Beam Analyzer HP
High power measurements up
to 5 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 HP Simplified version of Beam Analysis when compared to BeamOn U3 offering an excellent priceperformance ratio.



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



LAM Beam 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.
- Measures High Power beams starting from 5 microns up to 9 millimeters.

Beam Analyzers Line



BeamOn 2 MP
Best cost-effective system
for high resolution laser
beam measurement,
especially for focused
beams. 2 MP resolution, 3
microns per pixel, down to
60 microns beam size.



BeamOn WSR
Based on a proprietary technology measuring from uv to 1550 nm with camera technology.
Complete set of accessories inc. built-in motorized filter wheel are available.



BeamOn LA
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 detector from 200 – 1600 nm and further on to 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.



DUMA OPTRONICS LTD.

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Optical Beam Positioning & Alignment

SpotOn Line



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



Laser Analyzing Autocollimator A combination of Electronic Autocollimator with laser beam analysis.



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



AlignMeter
A unique instrument
for simultaneous
measurements of
attitude and position of
incoming laser.



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



AngleMeter Attitude measurements of incoming laser over extremely large angles.

- 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 1550 nm) autocollimator and laser analyzing telescope are revolutionizing the field.



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