LASER BEAM **ANALYSIS** SPIRICON OPHIR GROUP LBA4

Laser beam analysis is very important procedure both in laser source completion to adjust optical elements and control of the beam quality by user to ensure excellent result of laser application. Camera-based beam profiler system consists of a beam tap, attenuator and CCD camera COHU 4812, connected to PC with profiler software. Acquired data can be displayed, saved and exported.

ACQUIRED INFORMATION

- > 3D intensity distribution model display
- > 2D intensity distribution in cross section display
- > Comparison with reference beam
- Computation of power density, beam center, divergence, beam diameter

SAMPLE TYPES

- > Collimated laser beams 400 nm 1 200 nm
- > Continuous or pulsed lasers up to 60 Hz
- > Maximal diameter of input beam 6.4 mm
- Maximal power resp. energy density 9 kW/cm² resp.
 0.5 MJ/cm²

MODES, CONDITIONS AND PRECISION

- > Multicolor or black and white display
- > Option display of the cursor, aperture, grid
- > Continuous, live or post-processing modes
- > Export of the pictures and data files
- > Attenuation range from 0 to 1,6.10⁻⁹
- > 1-8 ZOOM of Z-axis



Beam profiler set-up.



DETAILED INFORMATION ON REQUEST



REGIONAL CENTRE OF ADVANCED TECHNOLOGIES AND MATERIALS

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3D intensity profile of the IR laser diode.



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