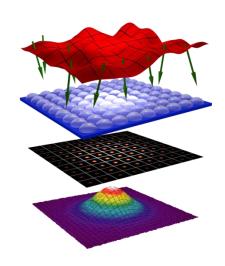
Hartmann-Shack Wavefront Sensor



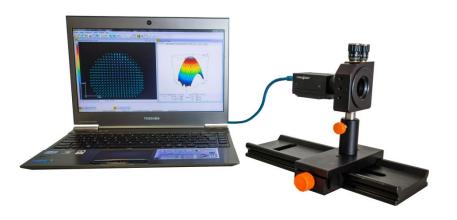
Operation principle

The Hartmann-Shack wavefront sensor of LLG was designed for comprehensive laser beam and optics characterization. The system uses a micro-lens array for dividing the incoming wave into a large number of sub-rays (cf. figure right). Intensity and position of the individual foci are monitored with a camera, enabling the reconstruction of both beam profile and wavefront from a single measurement.

These data accomplish real-time evaluation of beam propagation parameters (beam width, divergence, M²) which is especially important for pulsed or fluctuating sources.

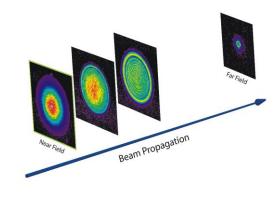


- Beam characterization
- Optics testing (NIR ... EUV)
- Adaptive optics
- ISO beam parameters
- ► M² in real-time
- Zernike analysis
- Beam propagation



Features

- ► All parameters from single measurement
- Wide spectral range: 1064 1 nm
- Dynamic range: up to 100 λ (@633 nm)
- Sensitivity (optics testing): < 100 pm</p>
- Various micro-lenses and sensor (10 bit 14 bit)
- USB 3.0 camera (ideal for laptop)
- Customized solutions





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