DWC®
Digital Wavefront Camera

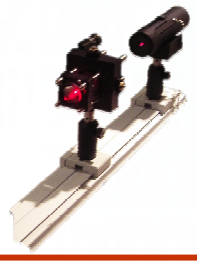
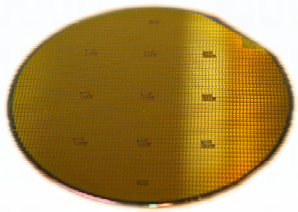
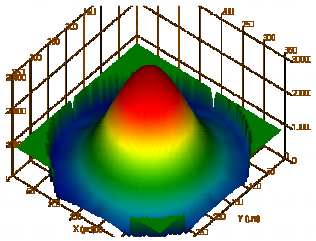
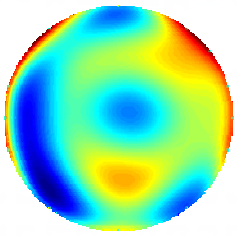
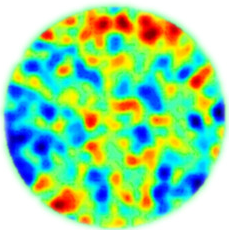
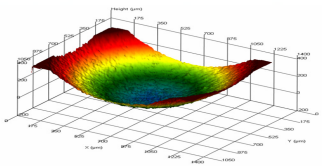
Ultra High Resolution Wavefront Measurement

Digital Wavefront Cameras® are smart and cost effective optical instruments providing the highest resolution and dynamic range available on the marketplace for wavefront analysis.

Unlike conventional analog wavefront sensors, Digital Wavefront Cameras integrate state-of-the-art digital wavefront sensors offering **unique benefits:**

- High spatial resolution, number of measurement points only limited by CCD resolution
- High flexibility in sensitivity and dynamic allows accurate measurements for both low and high order aberrations
- Real time & simultaneous measurement of phase and irradiance
- Wavelength broadband: UV, VIS, NIR, LWIR
- Compact & light instrument
- Cost effective metrology tool

Digital Wavefront Cameras provide high precision wavefront analysis

Applications				
	Laser Beam	Optics Testing	Ophthalmology	Wafers
Wavefront Measurement				

Optics Testing • Laser Characterization • Ophthalmic Instrumentation • Semiconductors

PhaseView®
The Digital Wavefront Company

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E-mail: contact@phaseview.com Web: www.phaseview.com

Powered by GetWave®

Wavefront Analysis Software

Based on the patented Digital Wavefront Technology, GetWave® performs wavefront acquisition, measurement and analysis in a remarkably fast and easy way from any Digital Wavefront Cameras. GetWave® provides comprehensive tools from automatic acquisition to wavefront display, analysis and reports.

- **Acquisition & Display**

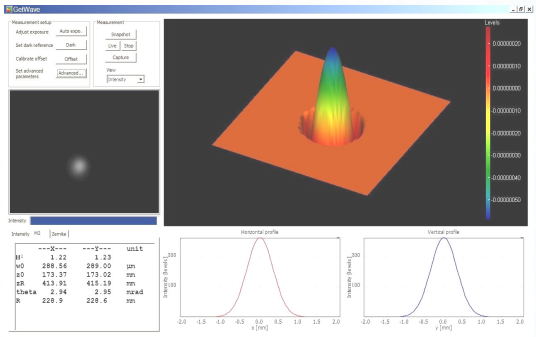
- Automatic Calibration
- Automatic Acquisition
- Exposure time adjustment
- External triggering
- Live display of 2D and 3D wavefront
- Live display intensity image

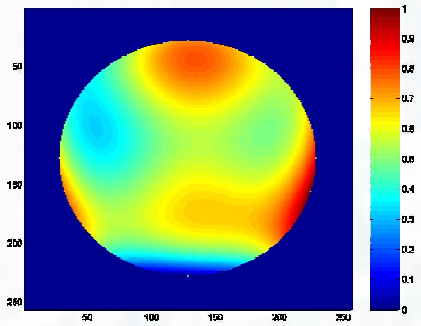
- **Wavefront Analysis & Measurement**

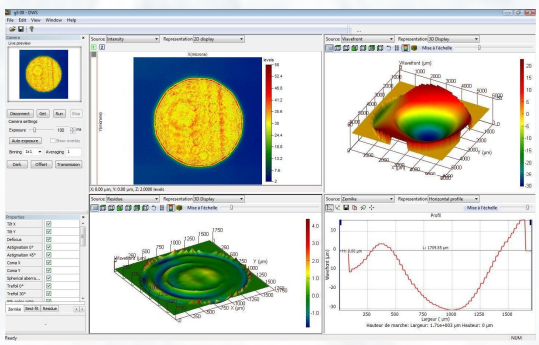
- Seidel and Zernike analysis
- Tilt, focus, astigmatism, coma, spherical, HOAs
- MTF, PSF, Strehl ratio
- M^2 measurement, beam waist, beam propagation analysis

- **Data Export & Report**

- Wavefront data exporting: Matlab, Excel, etc.
- Report Editor
- HTML Compatible Presentation







Technical Specifications

Standard Configuration	
Measurement points	500 x 500
Wavelength (nm)	350 - 1100
Sensitivity (λ)	0.01
Dynamic range (λ)	1500
Aperture (mm)	6.4 x 4.8
Weight & Size	350g – 25 x 32 x 43mm
Options	
Measurement points	1000 x 1000
Wavelength (nm)	UV, NIR, LWIR

Applications

Laser Beam Characterization
CW or pulsed lasers, laser diodes

- M^2 single shot measurement
- Simultaneous phase & intensity
- High precision beam profiling

Optical Testing
Aspherics, microlenses, IR lenses

- Fast & accurate phase measurement
- Easy optics assembly alignment
- Easy integration in any optical setup

Ophthalmology
Ophthalmic instrumentation

- Detailed wavefront map
- Accurate LOAs & HOAs measurements
- Real time acquisition and fast measurement

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