

4Sight™

4D Technology

Dynamic Interferometry® and Wavefront Analysis Software

4Sight analysis software is the most comprehensive platform for accurate wavefront analysis and surface shape measurement. Its smart, straightforward interface puts features and displays where you need them. Stable, glitch-free operation boosts productivity, day after day. 4Sight's Windows-standard menus and screens make learning 4Sight easy, and put impressive analysis power at your fingertips.

Fast Acquisition, Easy Data Access

4Sight is the driving force behind 4D Interferometers, supporting advanced features such as continuous measurement and dual mode (temporal and dynamic) operation. Fast Acquisition burst mode lets you generate video of moving or changing samples.

Data access and analysis are also easy and straightforward with 4Sight. The Measurement Screen groups common alignment and measurement controls into one location. The Measurement Stack lets you drag and drop data for comparison and complex manipulation, and the unique Measurement Flow interface lets you visualize all steps in the analysis sequence, from raw interferograms to processed phase.

Extensive Analysis Capabilities

4Sight has earned a reputation as the industry's leading software for analyzing interferometric data. Zernike, Seidel, geometric and diffraction analyses are easy to perform. Measurement-specific analyses include prism, corner cube and island analysis, as well as the most complete support for measuring large optics.

Visualization and Data Sharing Tools

Numerous tools for data transformation and manipulation help you get the most information from your data. 4Sight's 2D and 3D displays, masks, filters and palettes let you communicate information about your test samples with unprecedented clarity.

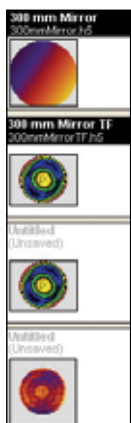
4Sight's comprehensive data sharing capabilities let you read, write, save and print from most file types, including MetroPro IDL®, MatLab®, Opticode®, Vision®, HDF5 and CodeV®. Images and tabular data can be cut, copied and pasted to other applications as well.

Update Your Capabilities

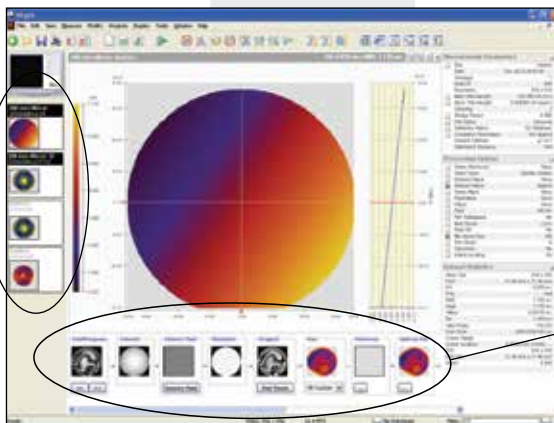
4D Technology's Upgrade Kits programs let you use the power of 4Sight to extend the life of temporal phase-shifting and dynamic interferometers and greatly increase their capabilities. Upgrade packages are available for instruments from Wyko, Zygo, ADE Phase-Shift and others.

FEATURES

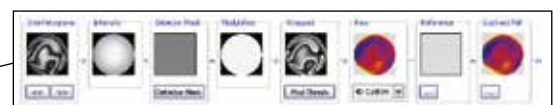
- Easy-to-Learn, Quick-to-Navigate Interface
- Comprehensive Analysis, Manipulation and Visualization
- Versatile Data Exchange with Most Popular Data Formats
- Robust, Reliable Operation for Maximum Productivity



Measurement Stack



Measurement Screen



Measurement Flow

4Sight™

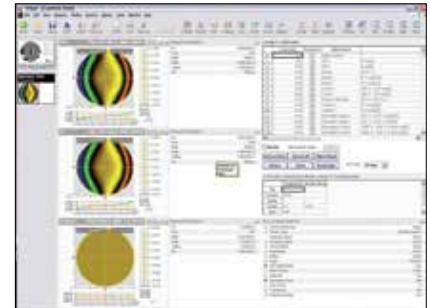
Wavefront Analysis Software

Software Features	Single, average, continuous, difference and burst (movie) acquisition
	Synthetic dataset creation
	Measurement Flow view of all analysis steps
	Measurement Stack for drag and drop arithmetic operations and simplified data analysis
	Detector, Analysis, Pupil, Trim and Terms masks
	Industry-leading graphics, including: 2D and 3D displays, histogram, cross-sections, zoom, Z-scale adjustment, rotation, etc.
	Comprehensive data analysis, including:
	- PVr, Zernike, Seidel, slope analysis
	- Geometric analysis (spot diagram, encircled and ensquared energy)
	- Fourier Diffraction analysis (MTF, PSF, PSD, auto-covariance)
	- ISO 10110-5 analysis
	- Multiple sub-aperture analysis (island, corner cube, prism)
	- Absolute sphere, 3-Flat calibration
	Reference generation and subtraction
	Fiducial aided data set mapping
	Database with pass/fail criteria and at-a-glance results
	Multiple PSI algorithms from 4 to 11 frames
	Single page precision and repeatability analysis across multiple measurements
	Shop Screen interface for fast factory-floor analysis
	Script Editor for advanced measurement and analysis
	HDF5 data format for easy exchange with all common formats (.dat, .opd, .map, .int, .csv, .txt, .hdf, etc.)
	Optional Web Service for remote acquisition and data exchange
	Optional Modal analysis and control software for modal evaluations
System Requirements	high-performance PC with minimum 3 GB RAM, Windows® XP or 7 operating system
Software Upgrades	Free during warranty period
Software Upgrade Kits	Use 4Sight with temporal phase shifting interferometers for greatly improved capabilities and longer service life.

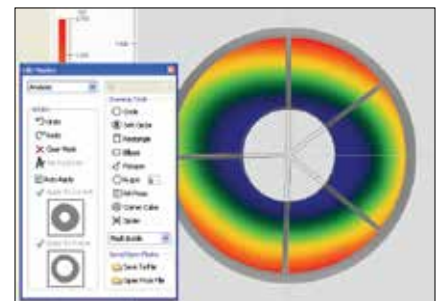
All specifications subject to change without notice. U.S. Patents 6,304,330 and 6,552,808, others pending.

Dynamic Interferometry is a registered trademark and 4Sight is a trademark of 4D Technology Corporation.

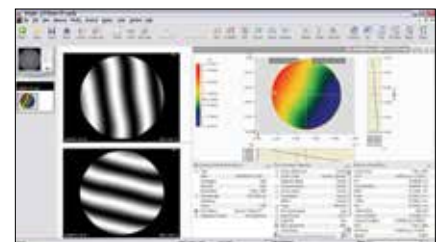
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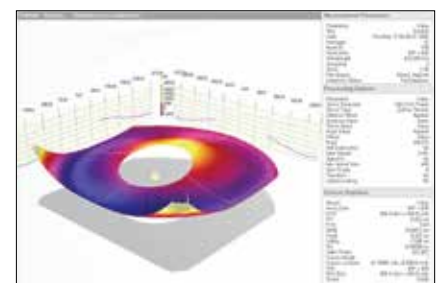
▲ Zernike Worksheet



▲ Mask Editor



▲ Shop Screen



▲ 3D Display