

4Sight™

4D Technology

Upgrades Kits

Budget considerations and specific applications sometimes require that older interferometers be pressed into service. Users of older systems, however, find themselves with few options for support.

Increase Performance of Older Temporal Laser Interferometers

4D Technology offers cost-effective upgrade kits to extend the life, and greatly increase the capability, of temporal phase shifting interferometers from other manufacturers. 4D upgrades increase computing power, system reliability and data analysis potential, to make older interferometers perform like never before.

4D upgrade kits are available to refurbish these laser interferometers:

- WYKO® 400, 600, 6000 and RTI Series (Veeco® Instruments, Inc)
- MiniFIZ (ADE Phase-Shift)
- Mark III, Mark IV, GPI Series (ZYGO® Corporation)
- Systems from other manufacturers (contact 4D to verify compatibility).

Each upgrade kit includes a new, high speed computer system running Windows® operating system software. Powerful 4Sight wavefront analysis software dramatically increases analysis, visualization and output capabilities. A new frame grabber board and piezo phase-shift driver ensure reliable service. Laser and camera upgrades are also available for some systems.

Upgrade kits may be self-installed, installed on site by 4D technicians or integrated by 4D at its facilities. On-site training is also available to help your team get up to speed quickly and get the most from new features. Complete documentation is included.

4Sight™ Analysis Software, Standard with All Upgrades

4Sight™ software sets the standard for easy and accurate wavefront analysis and surface shape measurement. 4Sight is designed with features that make life easy: a single-screen Measurement Console, open data file format, extensive 2D and 3D displays, filtering, data masking, fiducial alignment, diffraction analysis and much more. 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. With simple data exchange capability you can read and analyze data from almost any analysis package, and copy images and data to most programs as well.



BENEFITS

- Extended Useful Life for Older Interferometers
- Current Generation Computer and Operating System
- Upgraded Electronics for Enhanced Performance
- 4Sight Software for Comprehensive Data Analysis
- Open File Format Enables Easy Data Exchange
- Support, Warranty and Training

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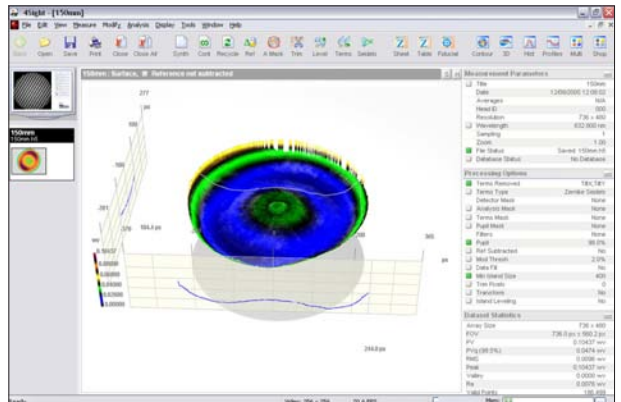
Upgrades Kits: Specifications

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|--------------------|---|
| Frame Grabber Card | Supports most cameras with RS-170 output |
| PZT Driver | ADC card plus external electronics box, output voltage 0 to +750 Volts |
| Cables | All cables for computer and electronics included |
| Other Hardware | Camera and laser upgrades available for some systems |
| Computer System | Minimum Dual Core 2GHz processor, 1 GB RAM, 160 GB hard drive, CDRW and DVDRW, 19 in LCD monitor, keyboard and mouse; optional printer, 20.1 in monitor, computer cart, MicroSoft Office Pro software |
| Operating System | Windows XP® or later |
| Software | 4Sight™ Version 1.8 or later |
| | On-the-fly data processing with terms / reference removal |
| | Reference generation, subtraction, data averaging, masking |
| | 2D and 3D surface maps |
| | Zernike / Seidel / Slope / Geometric / Fourier Analyses |
| | Fiducial aided data set mapping |
| | HDF5 data format standard, others supported |
| | Multiple sub-aperture analysis |
| | Optional analyses |
| | PSI Algorithms include: |
| | Four Bucket, Schmit Creath Class B, Hariharan, Carre, Schmit Creath 8-Frame 90, Hibino 9-Frame 90, Phillion 9-Frame 90 |
| | Software upgrades free during the warranty period |
| | User Manual included |
| Warranty | One Year limited warranty for all new 4D Technology-supplied components |

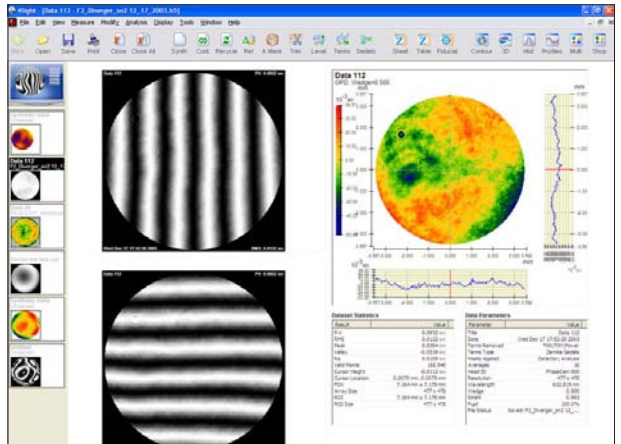
Upgrade Installation Options

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|----------------------|--|
| Self-Install | This cost-effective option includes detailed instructions that allow you to upgrade your system. On-site training is also available. |
| On-Site Installation | 4D technicians will upgrade your interferometer at your facility. On-site training is included. |
| Factory Upgrade | Ship the interferometer to 4D Technology for upgrade and test. The refurbished system is then returned, ready for use. On-site training is also available. |

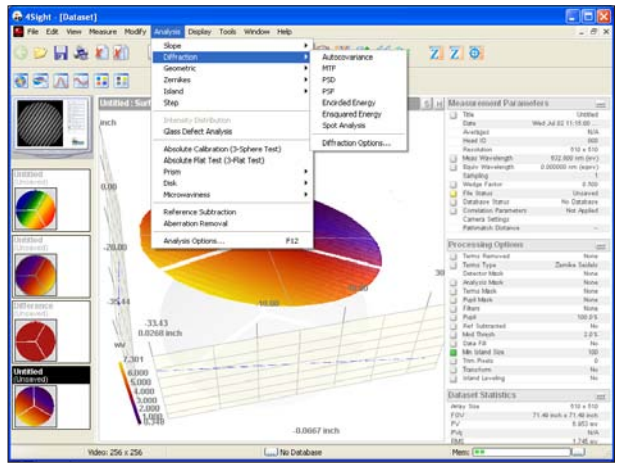
Pricing, option availability, and delivery times vary depending on the system kit. Contact 4D Technology for additional information regarding upgrade options for your interferometer. Dynamic Interferometry is a registered trademark, and 4Sight is a trademark of 4D Technology Corporation. Windows XP, WYKO, Veeco, Zygo, RTI, MiniFIZ, ADE Phase-Shift and GPI are trademarks or registered trademark of their respective owners.



▲ 3D Plot



▲ Shop Screen



▲ Measurement Console