



4D Technology Corporation is an innovator in the design and manufacture of metrology products for optics fabrication, astronomy, aerospace and other challenging applications. This privately held corporation is built upon a strong foundation: unique, patented technologies; a team with a track record for innovation and success; an intimate knowledge of customer applications; and a rapidly growing base of satisfied customers worldwide.

Products

4D products have expanded the applications and environments served by high-speed, high-resolution laser interferometers. Dynamic Interferometry®, the technology behind 4D products, ensures excellent performance for measurements in the most difficult environments, without vibration isolation.

4D interferometers share **4Sight** advanced wavefront analysis software, with dozens of analysis tools and displays, painless data exchange and easy operation with a short learning curve.

History

4D Technology Corporation was founded in January of 2002 and soon after acquired 4D Vision Technology to commercialize vibration-insensitive interferometry. Since then 4D has grown to over 35 employees, with an installed base of hundreds of systems worldwide and a constantly growing portfolio of products and capabilities to respond to customer needs.

Technology

4D's core, patented technologies are a key differentiator. Built around proprietary phase sensors, 4D interferometers acquire high-resolution phase data in as little as 1 μ s, making them

insensitive to vibration and environmental noise. Dynamic Interferometry technology enables measurement of optical-grade surfaces in challenging environments, as well as high-resolution measurement of moving surfaces.

People

4D's engineers and scientists hold numerous patents and are responsible for many of the most significant advances in interferometry in recent years. 4D is also committed to quality, service and support. Our focus on manufacturing and testing, backed by our experienced support network, ensures worry-free operation for the life of our products.

Innovation

The world's leading aerospace and optical manufacturers trust their challenging metrology requirements to 4D Technology. New advancements are further expanding 4D's applications in industrial metrology and inspection, biotechnology, advanced sensing and other fields.





www.4Dtechnology.com

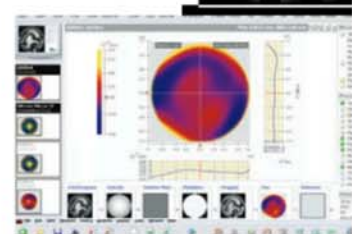
Products

4D Technology's laser interferometry systems excel at metrology of optical components and systems, as well as precision surfaces for aerospace, astronomy, semiconductors, displays and volume manufacturing. Dynamic Interferometry enables measurement in demanding environments, for production floor quality control, inspection of moving parts and metrology in thermal vacuum chambers. Wavelengths range from DUV through IR, with apertures from 7 to 500 mm.



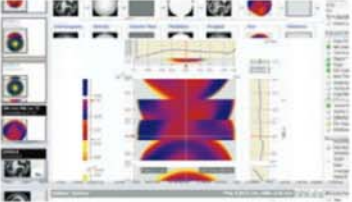
PhaseCam[®] dynamic Twyman-Green interferometers provide high resolution measurements in as little as 1µs—5000 times faster than temporal phase-shifting interferometers. Compact and lightweight, PhaseCam systems make reconfiguring test setups simple and allow for *in situ* measurement and on-machine polishing metrology.

AccuFiz[®] compact Fizeau interferometers offer an unmatched combination of performance, quality and value for surface shape and wavefront quality measurements. Unparalleled accuracy at mid-spatial frequencies lets the AccuFiz measure polishing artifacts that other interferometers simply miss. **FizCam** dynamic Fizeau interferometers accomplish difficult measurements such as remote cavities, multiple surface systems, wedge and homogeneity.



NanoCam Sq dynamic profilers measure surface roughness on small to very large coated and uncoated optics. Impressive portability and vibration insensitivity support texture measurement at production stations, directly on large optics, on gantries or robots, or on polishing equipment.

PolarCam micropolarizer cameras simultaneously capture multiple polarized images to boost data content without image blur, for applications in image enhancement, birefringence mapping, medical imaging, industrial monitoring and more.



Custom Solutions from 4D let you tap the creativity and expertise of our team to overcome difficult environments, complex setups and one-of-a-kind measurement problems. 4D core technology has been adapted for such applications as production panel display inspection, speckle interferometric measurement of diffuse structures, high speed measurements (up to 1000fps), and measurement of precision surfaces from IR through deep UV.

4Sight Software sets the standard for easy data acquisition and analysis. Features include an open data file format, extensive displays, filtering, masking, diffraction analysis, remote operation and much more. 4Sight[™] functions with virtually all phase shifting interferometers, as a stand alone workstation, and with all 4D interferometers. 4Sight **Upgrades** provide a cost-effective solution to refurbish and enhance older temporal phase-shifting interferometer systems, returning them to like-new functionality.

