



Metrology Systems

- 3D Optical Profilers
- Laser Interferometers
- Nano-Position Sensors
- Custom Metrology Solutions

Laser Interferometers

- Verifire™
- Verifire™ HD
- Verifire™ HDX
- DynaFiz®
- Mx™ Software
- Interferometer Accessories

Special Applications

- Verifire™ MST
- Infrared Interferometers
- Verifire™ VTS
- Verifire™ XL
- Large Aperture Systems
- Upgrades

Unique Technologies

- QPSI™
- DynaPhase®

Verifire Key Features:

- **NEW** DynaPhase® dynamic acquisition compatible for metrology in extreme environments
- True on-axis Fizeau configuration ensures accurate metrology
- Continuously-variable optical zoom
- QPSI™ technology, available only from ZYGO, enables reliable measurements in vibration-prone environments
- Industry-leading reliability with unmatched 3-year laser warranty

Verifire™

Fizeau Interferometer

ZYGO's Verifire™ interferometer system provides fast high-precision measurements of plano or spherical surfaces, and transmitted wavefront of optical systems and assemblies. Measure glass or plastic optical components – like flats, lenses, and prisms – and even precision machined metal and ceramic surfaces.

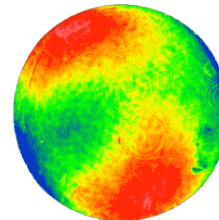


A true laser Fizeau design, the Verifire™ system expands upon ZYGO's unmatched experience in surface form metrology. The on-axis configuration combined with ZYGO's patented acquisition algorithms and full-featured Mx™ metrology software enables high-precision surface form metrology with advanced analysis capabilities.

Confident Metrology for a Dynamic World

Technology for optical metrology has advanced significantly in recent years. In the past, environmental effects needed to be carefully controlled to achieve reliable measurements. Today, ZYGO offers technologies that enable reliable measurements in harsh environments where vibration and air turbulence can be extreme.

QPSI™ Vibration Tolerant Interferometry eliminates ripple in phase data caused by small vibrations in a cavity, while maintaining a high-precision on-axis measurement configuration. ZYGO's proprietary QPSI data acquisition is enabled by a ZYGO-manufactured high-power HeNe laser source and patented software algorithms – no other vibration tolerant acquisition technique compares.



Comparison of a surface measurement affected by vibration, and the same surface measured with QPSI™ technology.

DynaPhase® Vibration Insensitive Interferometry freezes vibration and air turbulence, enabling metrology in extreme environments. Patented in-situ calibration ensures precision and confidence in metrology that can't be matched. **NEW** The DynaPhase® acquisition mode is now available as an option on the Verifire system, adding even more value to this workhorse interferometer.

Stabilized, Long-life, High-Power Laser

ZYGO's proprietary laser source is designed and manufactured in Middlefield, CT. The laser exceeds the power and lifetime of the commercially available HeNe lasers typically used in laser interferometer products. With a lifetime rating exceeding 60,000 hours, our laser is backed by an unmatched **3-year warranty**, minimizing downtime and maximizing your ROI.



Stabilized long-life high-power lasers, designed and manufactured by ZYGO.

Accessories

The Verifire system is compatible with standard ZYGO interferometer accessories which expand the system's versatility. This includes our ZYGO certified reference optics that ensure optimum performance from our laser interferometers.

Inquiry Form

Please use the form below to contact us with any questions you have regarding ZYGO's Verifire interferometer system, or interferometry in general.

First Name * Last Name *

Phone Number E-mail Address *

Company or Organization * Job Title or Function *

Brochures ▾

- Verifire™ Family Brochure
- Laser Interferometer Accessory Guide
- Guide to Typical Interferometer Setups
- Laser Interferometer Quick Setup Guide

Spec Sheets ▾

- Verifire™

Application Notes ▶

Manuals ▶

Technical Papers ▶

Note: Login Required to download Application Notes; Click for details.



What's New at ZYGO?

- » **Blog:** AMETEK Essential Businesses Remain Open During COVID-19 Outbreak
- » **Blog:** ZYGO's Statement on the COVID-19 Outbreak
- » **Blog:** New Interferometer System Boosts Productivity for Spherical Optics Manufacturers
- » **Blog:** Measuring Surface Form of Thin Plane-Parallel Optics, the Quick and Easy Way
- » **Blog:** Characterizing Cylinder Surfaces at Each Step of the Thermal Barrier Coating Process
- » **Blog:** Nano-Positioner Manufacturer Chooses ZYGO DMI System to Characterize Performance



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Check this box to provide consent for ZYGO to contact you in the future. **

Please indicate your level of interest... *

- Current Need Upcoming Need Possible Need Gathering Data

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† Required for USA and Canada

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