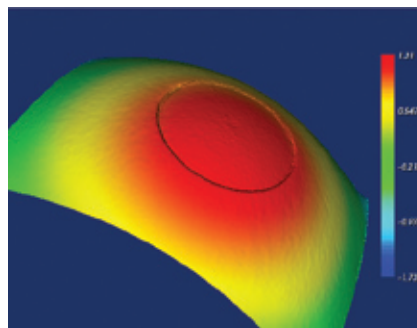


Interferometric Fiber Optic Connector Testing System

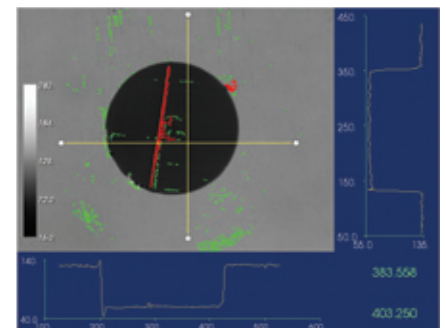
FiBOTM is a true phase-shifting Michelson interferometer for automated non-contact fiber optic connector endface testing that combines interferometric 3D surface mapping and 2D visual inspection capabilities in one compact, rugged, and portable design.

Features

- 3D measurements of radius, fiber height, apex offset, and roughness as well as full 2D defect analysis.
- Fixed focal length magnifier and diffraction-limited optical design deliver high contrast images, maximum system stability, and accurate readings.
- Pre-aligned, kinematic adapters guarantee exact fiber positioning automatically. No tedious adjustments or calibration is necessary when changing between different connector types.
- Extremely compact. Use as a portable device in the field or on the bench. No additional power supply or external interface board is required.
- Advanced, yet easy-to-use FiBO CodeTM software fully controls all hardware functions and saves resulting data in a flexible Access[®] database format that is easily imported into Excel[®].
- Fully compliant with measurement requirements set forth in international standards. Optional NIST traceability for 2D and 3D calibration targets.



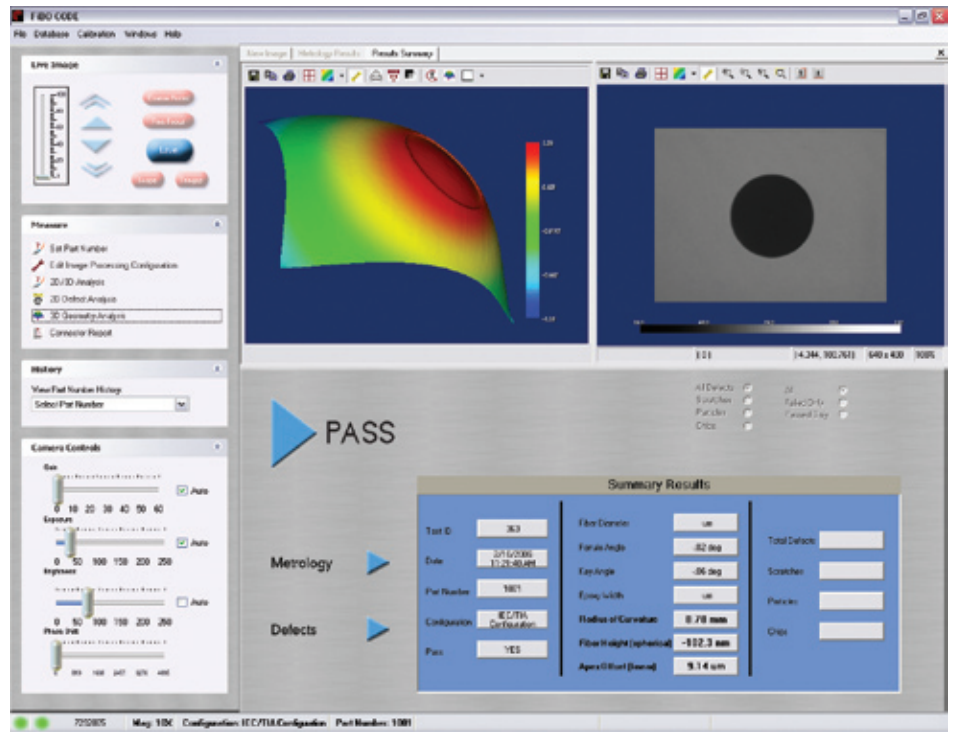
Powerful 3D metrology capabilities



Full featured 2D defect detection

FiBO Code™ Software

- Displays live image of connector endface in interferometric as well as visual inspection modes, up to 30 frames per second.
- Provides auto focus and manual focus.
- Offers parameter setup for customizable pass/fail limits and measurement zones.
- Performs interferometric 3D and visual inspection 2D measurements.
- Allows system calibration of 2D, 3D, phase-shift, and apex offset parameters.
- Saves measured data in a flexible Microsoft Access® database format.
- Displays results in a printable report.
- Furnishes an Engineering Mode to block certain functions.



Technical Specifications

Measurement Technique	..... Non contact, phase-shifting Michelson interferometry
Configuration	..... Portable or tabletop; special mount for polishing plate interface
Connector Adapters	..... ST, FC/PC, FC/APC, SC/PC, SC/APC, LC/PC, LC/APC, LSH/PC, LSH/APC, MU/PC, 1.25mm and 2.5mm bare ferrule (other connector styles and custom angle mounts available)
Computer Interface	..... USB 2.0
Power Supply	..... None (all power delivered over USB cable)
Included Software	..... FiBO Code™ software running under Windows XP®
Size	..... Height 6.5" (165mm) Diameter 2.5" (64mm)
Weight	..... 2 lbs. 5 oz. (1040 grams)
LED Wavelength	..... 640nm
Optical Magnification	..... 10x
On Screen Magnification	..... 480x (19 inch screen)
Lateral Resolution (µm/px)	..... 0.56
FOV Diagonal (µm)	..... 450

The FiBO Package Includes:

FiBO 250 Series hardware	Carrying Case
Laptop computer	USB 2.0 cable
Two kinematic adapters	Hardware key
Three calibration targets	Printed manual
FiBO Code™ software	



Repeatability/Reproducibility

Radius (mm): 0.1 / 0.25%
 Apex Offset (µm): 0.5 / 1
 Fiber Height (nm): 1 / 1.5

 **PROMET International Inc.™**
 Precision Optical and Mechanical Technology

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