

Microwave Photonic Systems Inc

882 S. Matlack St, Bld.104, West Chester PA 19382

Phone: 610.344.7676 Fax: 610.344.7110

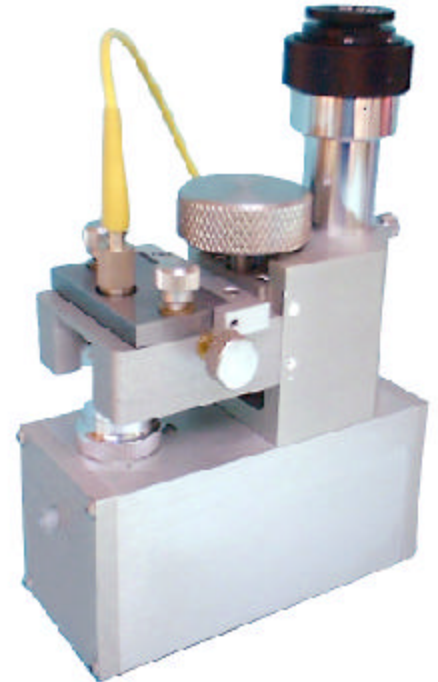
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FP-1000

FABAY-PEROT INTERFEROMETRIC MICROSCOPE

FEATURES

- ★ Blue Light (472 nm Wavelength)
- ★ Fully Portable And Field Ruggedized
- ★ IR Filtered Viewing Port
- ★ Self-Aligning Calibration
- ★ 200x to 400x Zoom
- ★ Low Cost High Performance



DESCRIPTION

The model FP-1000 is a high performance interferometric microscope that is designed to inspect the geometry of optical connector endfaces. The spherical nature of the endface geometry is critical in determining the overall insertion loss and return loss performance of the optical connector. In order to ensure optimum performance the connector endface geometry must be in compliance with established Bellcore Specifications for radius of curvature, apex offset, and fiber undercut or protrusion.

The Model FP-1000 allows the user to measure the endface geometric parameters by forming an optical fringe pattern which is created when light is illuminated onto the contact area between the connector endface and an optical reference plane (or flat). The fringe pattern is a result of the optical interaction of the light with the surface contact area. Specifically, the fringes are created by constructive and destructive interference when the light reflects back and forth between the endface and the reference flat.

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