

FIBER OPTIC INTERFEROMETRY TRAINING KIT



Features

- ✓ Comprehensive teaching & training manual
- ✓ Rack mounted components
- ✓ Eye safe connectors
- ✓ Competitive pricing

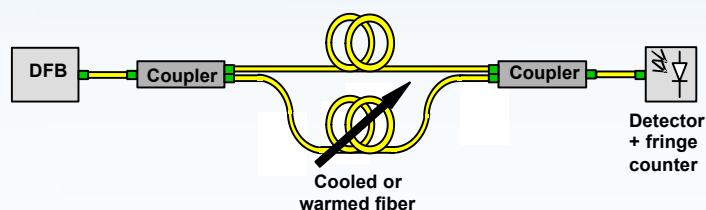
The fiber optic interferometry training kit enables theoretical and experimental investigation of Mach-Zehnder and Michelson interference phenomena without complex tuning requirements. Possible measurements include : thermal expansion in silica fiber, wavelength shift of a laser diode versus drive current, Doppler shift (measurement of a disk rotating speed).

COMPONENTS INCLUDED

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|--|---|
| 1 DFB laser diode @ 1550 nm, 1 mW, analogical modulation (1 MHz) | 2 Optical attenuators |
| 1 Detector : InGaAs photodiode (BW>10 Mhz) | 1 Fiber optic heater |
| 1 Optical isolator | 1 Fringe counter |
| 2 Fiber optic couplers 2x2, 50/50 | 1 Rotating disk for Doppler effect |
| 2 Gold mirrored fiber ends | 8 Patchcords E2000/APC Diamond connectors |

PRACTICAL EXPERIMENTS

Mach-Zehnder & Michelson interferometer
 Observation of optical interference
 Thermal expansion of a silica fiber
 Wavelength shift of a DFB laser diode
 Doppler effect observation and measurement of a disk rotating speed



Example experiment : Thermal expansion of a silica fiber