Sintec Optronics

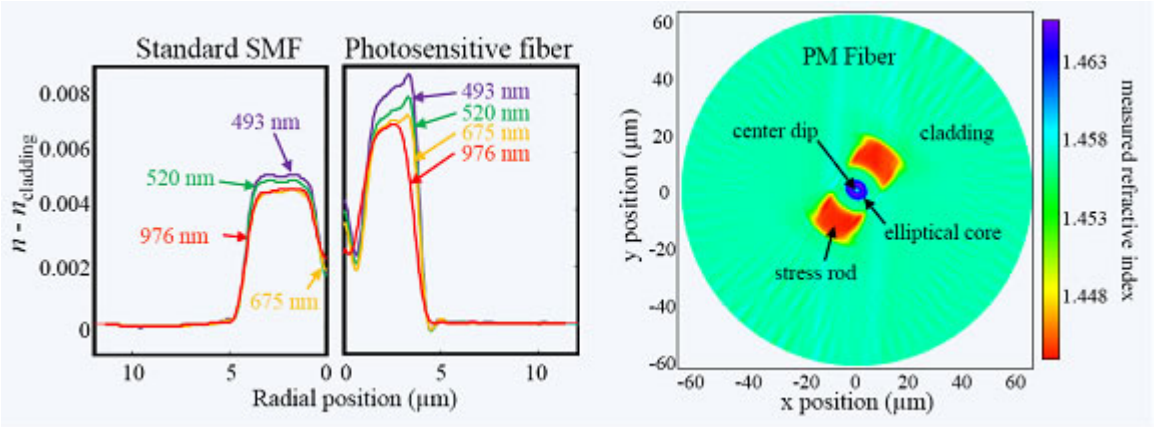
IFA-100 Optical Fiber Analyzer

We specialize in Transverse Interferometry, the *most sensitive* fiber measurement technology available.

Our exclusive patent-pending Multi-Wavelength Optical Fiber Refractive Index Profiling Technology was first presented as Postdeadline Paper PDP A2 at OFC/NFOEC 2009 and has since been the subject of peer reviewed conference and journal publications. Since the measurement is performed transversely (through the side of the fiber), it is essentially non-destructive. Although the fiber's polymer coating or buffer must be removed, the fiber itself can continue to carry an optical signal during the measurement, and if necessary the polymer coating can be restored to the fiber after the measurement is completed.

Features:

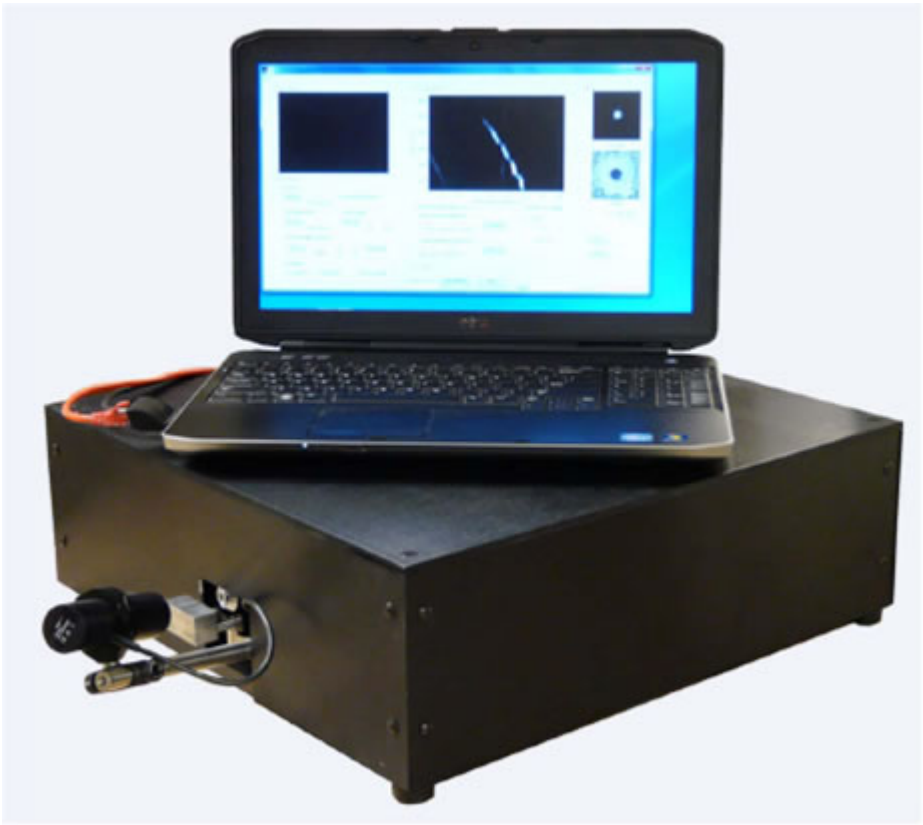
- Multiwavelength
- No cleave required
- Sub-μm spatial resolution
- Applicable to any fiber type
- Fast measurement time
- Measure splices, tapers, couplers



Specifications:

Refractive index accuracy	+/− 0.0001
Spatial resolution	~ 500 nm
Measurement wavelength	500 nm to 1 μm
Fiber diameter	40 μm to 400 μm
Fiber material	Silica glass, non-silica glass, plastic
Concentricity error measurement	+/− 200 nm
Core non-circularity error measurement	+/− 0.4 %
Fiber type	singlemode, multimode, microstructured (PCF), PM, multicore, rare-earth, cladding-pumped, large mode area, low bend loss, high-Δ, etc.

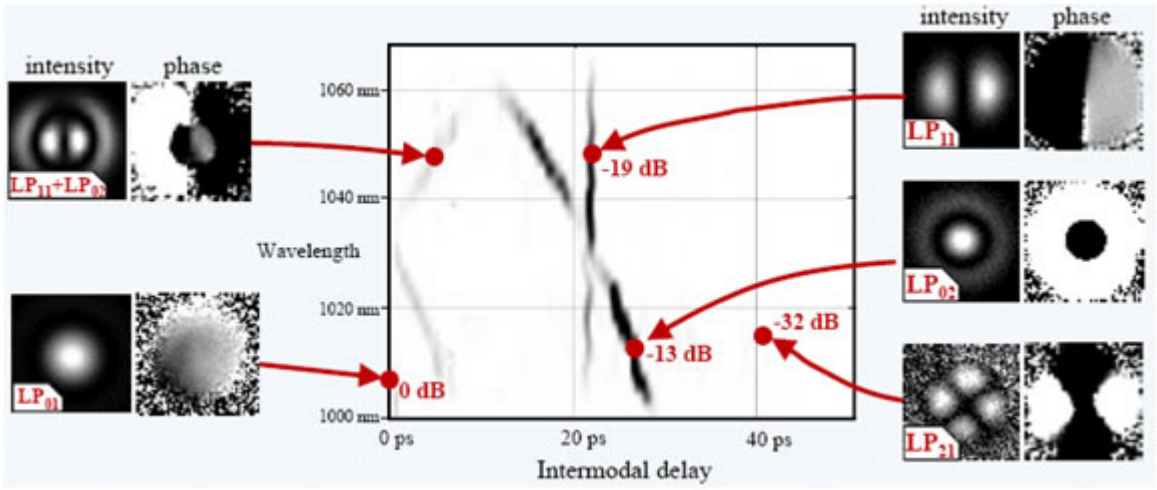
FMA-100 Fiber Mode Analyzer



Features:

- Identify distinct spatial modes
- Quantify relative mode power
- Obtain mode amplitude & phase profiles
- Qualify fibers, components, splices
- Measure in seconds

Know your modes!!!



Specifications:

Fiber cladding diameter	60 to 800 microns
Measurement band	~1010 to ~1070 nm (other bands available)

Measurement time	less than 1 minute
MPI noise floor	~ 30 dB
Intermodal delay range	0 to 90 ps
Intermodal delay resolution	~0.5 ps