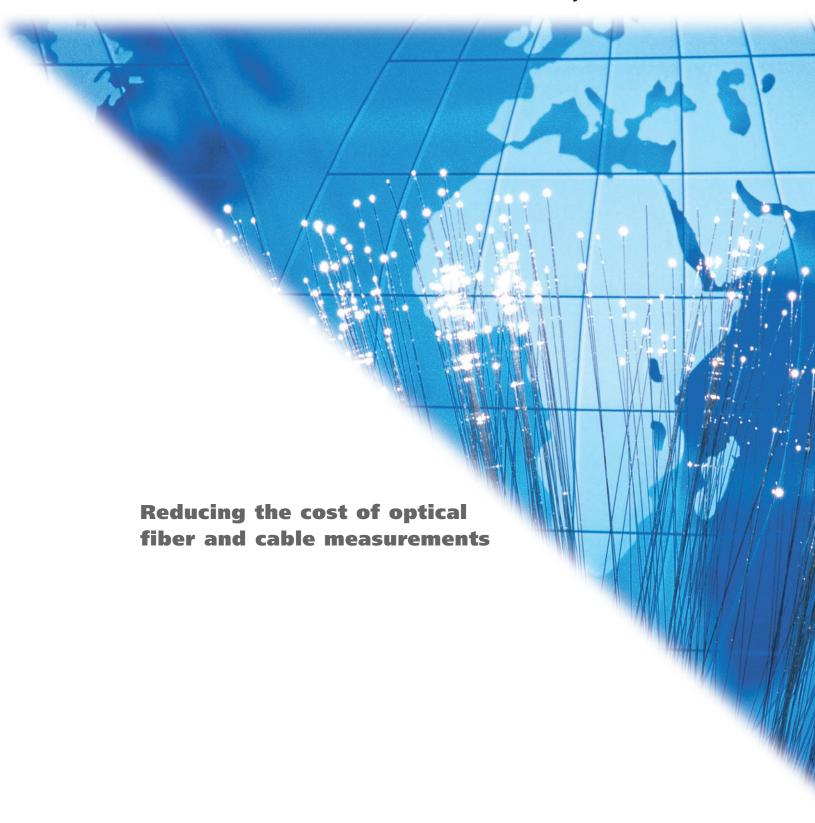
Photon Kinetics Production and Laboratory Products





Reducing the Cost of Measurements

For over 35 years, Photon Kinetics has provided the world's leading optical fiber, cable and component manufacturers with automated test systems for virtually every stage of optical fiber production - from preform to finished cable. We also offer fiber preparation and alignment tools that enhance the productivity of our test systems, and software that facilitates both instrument remote control and data collection. Together, our comprehensive measurement solutions enable fiber, cable and component manufacturers to obtain high quality measurements in the shortest possible time, facilitating both product improvement and manufacturing cost reduction.



Photon Kinetics headquarters in Beaverton, Oregon, USA



S14 Fiber Refractive Index Profiler

Refractive Index Profiling

The first measurement performed in optical fiber manufacturing is characterization of the fiber preform by refractive index profiling. Profile data is essential for estimating the transmission characteristics of the fiber that is ultimately drawn from the preform, and it is useful for obtaining information that is critical for subsequent preform processing. Refractive index profiling is also performed on drawn fibers to ensure that the drawing process did not significantly alter the profile. The capability and performance of our refractive

index profiling products are the reason that over 95% of the world's optical fiber manufacturers rely on them to maximize both preform and fiber yields.

Fiber Index Profiling

S14 Fiber Refractive Index Profiler

Preform Index Profiling

2600 Preform Analyzer

2610 High Performance Preform Analyzer

P104 Preform Analyzer

P106 Preform Analyzer

Fiber Transmission Parameters

Our line of products for characterizing optical fiber transmission properties consists of a broad range of test instruments from OTDRs to multi-parameter test systems. These products are used by optical fiber, cable and component manufacturers to measure fiber transmission properties that are critical to the proper functioning of both single-mode and multimode optical communications networks. These include: spectral attenuation, chromatic and polarization mode dispersion, cut-off wavelength, mode field diameter, numerical aperture, effective area, multimode bandwidth, differential mode delay and encircled flux. All of Photon Kinetics test systems for fiber transmission parameters feature high-speed fiber handling and data acquisition, which provide manufacturers with rapid, reliable process feedback, high output and reduced measurement costs.



8000 Production and Laboratory OTDR

Chromatic Dispersion, PMD and Strain

2800 Fiber Analysis System

2850 Tunable Laser CD System

Optical Time Domain Reflectometers

8000 and 8000i Production and Laboratory OTDRs

Spectral Attenuation and Cut-off Wavelength

2300 Fiber Analysis Systems (2300A, AG)

2500 Optical Fiber Analysis Systems (2500A, AB, AD, ABD)

Bandwidth and DMD

2500 Optical Fiber Analysis Systems (2500B, D, AB, AD, ABD)

Encircled Flux

2440 Launch Analyzer

Numerical Aperture

2201 Far Field Scanner

2500 Optical Fiber Analysis Systems (2500A, AB, AD, ABD)

Mode Field and Effective Area

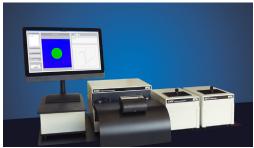
2201 Far Field Scanner

2304 Mode Field Diameter Option (2300A, AG)

2XXX-MFD Mode Field Diameter Option (2500A, AB, AD, ABD)

Fiber Geometry

In order for optical fibers to be spliced with low loss and perform as designed once installed, their geometry must be precisely characterized and controlled. The 2300G and 2300AG Fiber Analysis Systems provide fiber manufacturers with high performance measurement capability for critical fiber geometry parameters such as core and cladding diameter, circularity and concentricity of the core and cladding, as well as the coating geometry (2302 Option) and the fiber's curl radius (2311 Option). Other options available for the 2300 systems can provide even higher performance measurement of conventional fiber properties or extend the system's capability to include the characterization of various specialty fiber designs including polarization maintaining fibers and microstructured (holey) fibers having embedded structures. Further the 2300L configuration employs specialized optics to enable measurement of large diameter fibers with cladding diameters from 125 to 450 µm.



2300G Fiber Analysis System with 2302 Coating and 2311 Curl Options

Glass Geometry

2300G Fiber Analysis System 2300AG Fiber Analysis System 2300-RGS High Precision Fiber Geometry Option 2300-PMF Polarization Maintaining Fiber Geometry Option 2300-MSF Micro-structured Fiber Geometry Option 2300L Large Diameter Fiber Geometry System

Coating Geometry

2302 Coating Geometry System 2302 Coating Geometry Option (2300G, AG)

Fiber Curl

2311 Fiber Curl System 2311 Fiber Curl Option (2300G, AG)

Fiber Preparation, Alignment and Test Automation

Photon Kinetics is the leading supplier of high productivity test solutions for the fiber and cable manufacturing industry. But the performance of our instruments is just part of the reason. Our fiber preparation and handling products minimize the time test technicians spend preparing fibers and connecting them to the test instrument (e.g. 8000 OTDR or 2800 Fiber Analysis System) thereby leveraging the performance of the test system to maximize overall station productivity.

PK's fiber preparation products include the industry standard FK11 and FK12 fiber cleavers. The FK12 creates flat, angled fiber end faces for low reflectance termination of optical components, while the FK11 cleaver produces flat fiber end faces on standard or large diameter (FK11-LDF) fibers. Once cleaved with the FK11, fibers can be manually coupled to the test instrument in seconds with either the 1100 or 1120 Single Fiber Aligners. For high volume cable testing, the 1001-MFH Multiple Fiber Handler provides automated fiber coupling of loose tube or ribbon fibers.



1001-MFH Multiple Fiber Handler

In addition to the fiber cleavers and fiber coupling tools that minimize test setup time, Photon Kinetics also offers test automation software for several of our instruments. The OASYS.net software for the 8000 or 8000i OTDRs automates production cable testing. When used with the 1001-MFH Multiple Fiber Handler, it's possible to test over 1000 fibers in an 8 hour shift. For fiber or cable design qualification, the EnvirOTDR software option for the 8000 OTDR not only controls the OTDR, but it can also any control optical switches and environmental test fixtures, all while delivering unprecedented loss measurement precision using a patented loss measurement technique.



FK11 and FK12 Cleavers

Fiber Cleaving

FK11 Fiber Cleaver FK11-LDF Large Diameter Fiber Cleaver FK12 Angled Fiber Cleaver

Single and Multiple Fiber Alignment

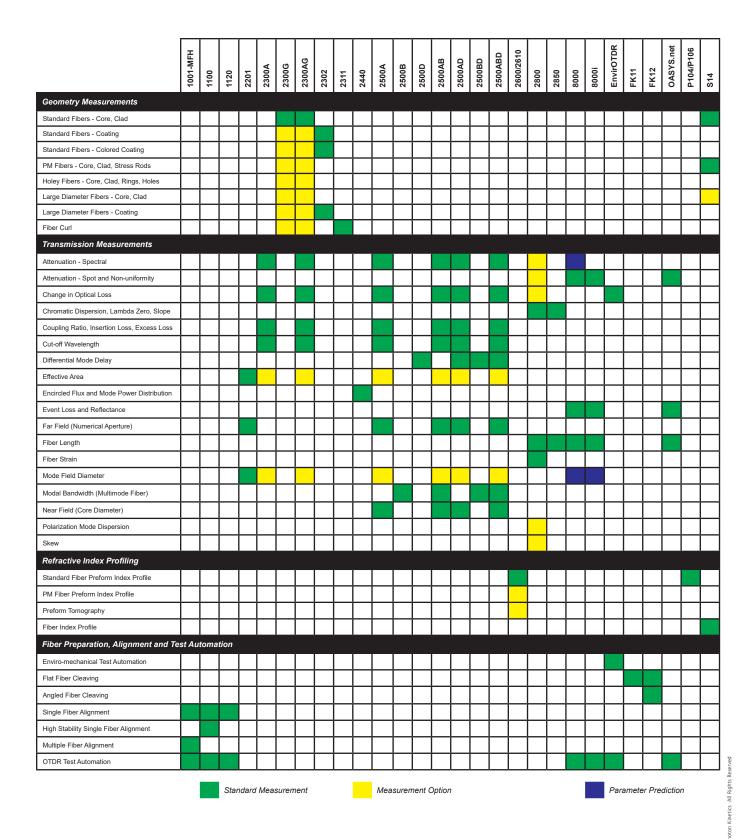
1001-MFH Multiple Fiber Handler 1100 Single Fiber Aligner

1120 Bare Fiber Aligner

Test Automation Software

EnvirOTDR Qualification System OASYS.net OTDR Automation Software





Photon Kinetics includes products formerly branded as York Technology, PK Technology, GN Nettest and NetTest.

Photon Kinetics, Inc.

9305 SW Gemini Drive, Beaverton, OR 97008 USA

Tel +1 503 644 1960 Fax +1 503 526 4700





