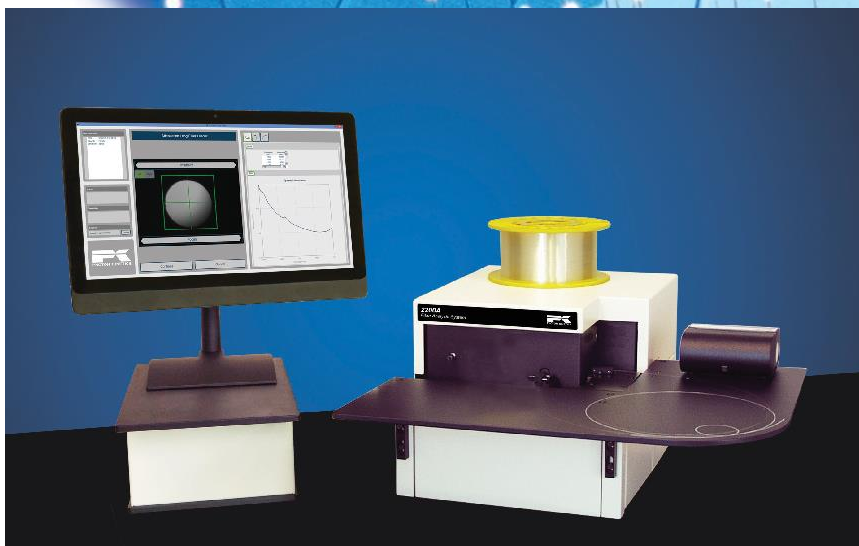


2200A Fiber Analysis System



**Essential measurement capability
for fiber and cable manufacturers**

Based on the factory-proven 2200, the 2200A Fiber Analysis System provides high-performance characterization of single-mode fiber spectral attenuation and cut-off wavelength on a Windows-based measurement platform with an operator-friendly, graphic user interface. The 2200A can also be optionally configured to perform other measurements such as mode field diameter measurements on single-mode fibers, as well as multimode spectral attenuation. With high-speed fiber preparation, loading, alignment and data acquisition, the 2200A delivers precise, repeatable and reliable measurement capability for the most demanding production environments.

High-speed Fiber Preparation and Loading

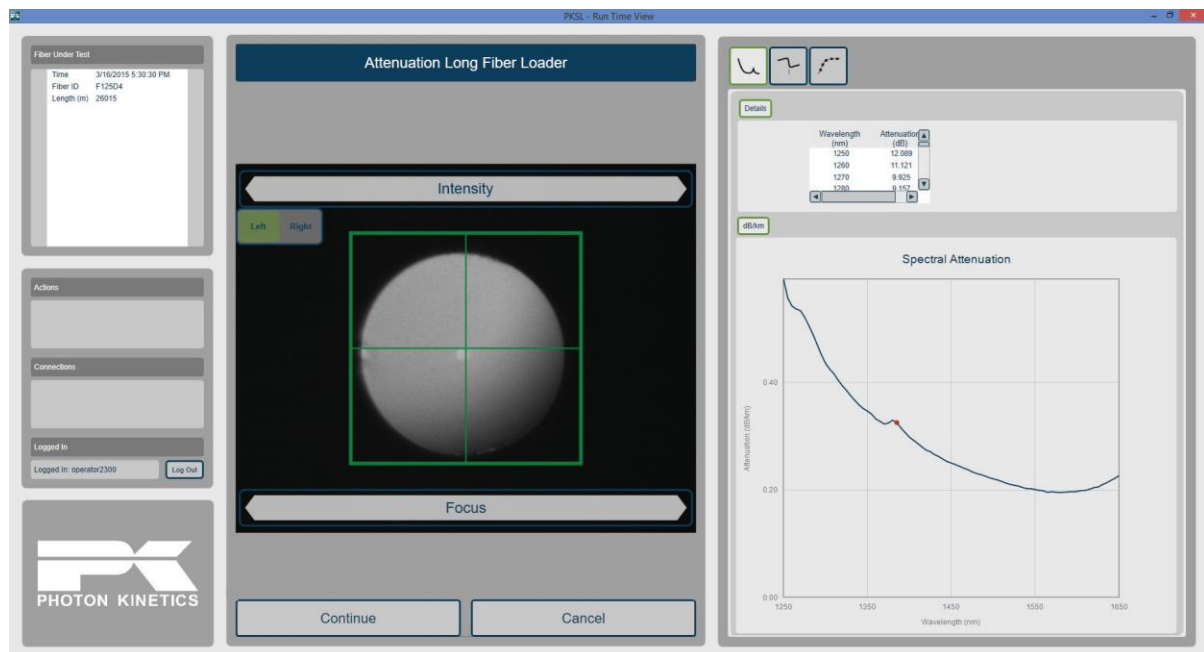
For many fiber measurements, the time required to prepare and load test samples is often longer than the time it takes to actually perform the measurement. That's why Photon Kinetics pioneered high-speed fiber handling tools that have been integrated with virtually all of our fiber measurement systems. Precision fiber holders with compatible cleavers allow you to cleave both fiber ends, load them and begin testing in less than 30 seconds. The unique ability to inspect fiber end-faces prior to the start of data acquisition ensures that time is not wasted because of contamination or defects on the fiber end-faces that could affect measurement results.

Simple, Graphical User Interface

The 2200A is a member of the Photon Kinetics Scripting Language (PKSL) test family. This means that the 2200A features a simple, easy-to-use, graphical user interface designed specifically for production test operators. But, behind this uncluttered user interface the PKSL software provides powerful test customization and other capabilities unrivaled by any other fiber test instrument.

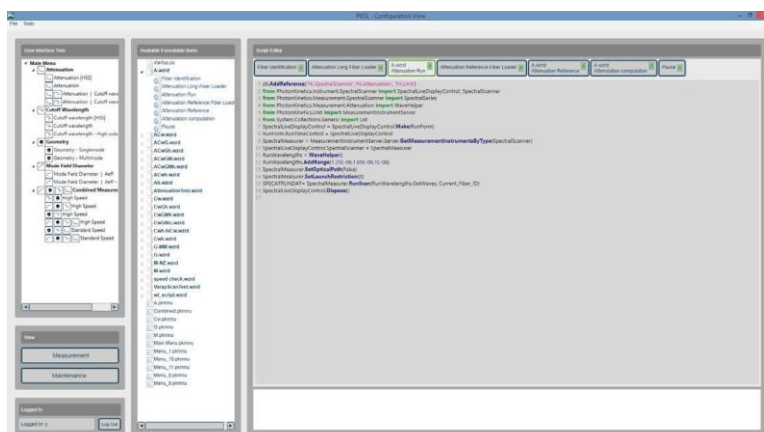
Production-proven, Modular Design

It is essential that production fiber test systems function reliably day after day. The basic 2200A design and components have proven this level of dependability for years in the factories of the world's leading fiber and cable manufacturers. The system employs a modular optical system that enables a wide range of single-mode and optional multimode measurements to be made on a compact measurement platform. Modularity also makes the 2200A easy to maintain, reducing test station downtime.



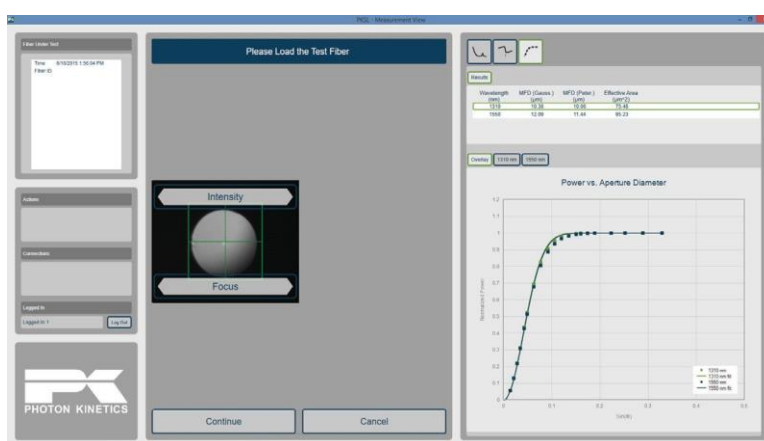
Powerful Test Sequence Customization

Test customization begins with the PKSL Test Wizard which steps the user through the selection of measurements to perform with the 2200A system and/or options, plus loading/alignment, test parameter and results handling options. Once the Test Wizard has created a test sequence, the resulting test sequence script can be edited by the user, enabling an even greater test customization. Other PKSL capabilities include the ability to create customized test selection menus and have them displayed in local language.



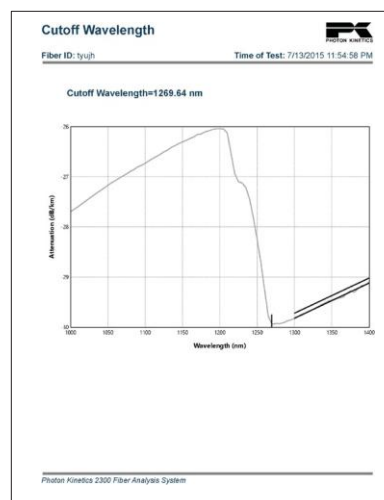
Measurement Options to Expand Capability

While the standard 2200A performs single-mode spectral attenuation and cut-off wavelength measurements, the system is able to perform other tests with the addition of one or more measurement options. The 2204 Mode Field Diameter Option provides fast, reliable, MFD measurement capability that is ideal for the production testing environment. Spectral attenuation for multimode fibers can be added with the 2200A-MMF option, plus the 2200A-MAN Serpentine Mandrel Option for standards compliant launch conditioning.



Multiple Choices for Handling Test Results

The 2200A offers several options for displaying, printing and storing test results. These include simple display of results in the Results Panel of the main Measurement View, pre-formatted reports that can be printed and/or saved, and storage of the results files to a local disk or remote network location. Saved results can be viewed offline with the included PK File Viewer application. Measurement results, and all associated data can also be stored to the included SQL Express database. More customized data storage or results reporting can be obtained by modifying the PKSL test script, or by incorporating custom script files either created by the user or supplied by Photon Kinetics as a special option.



Specifications

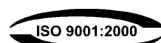
Applicable Standards	
Single-mode Attenuation	ITU-T G.650.1; IEC 60793-1-40; TIA/EIA FOTP-78
Multimode Attenuation	ITU-T G.651; IEC 60793-1-40; TIA/EIA FOTP-78
Cutoff Wavelength	ITU-T G.650.1; IEC 60793-1-44; TIA/EIA FOTP-80
Source Characteristics	
Scanning Range	700 to 1700 nm
Spectral Width	< 10 nm (standard)
Wavelength Accuracy	± 3 nm
Wavelength Repeatability	< 1 nm
Single-mode Fiber Spectral Attenuation	
Wavelength Range	1000 to 1600 nm
Dynamic Range (SMF, S/N=1) ¹	
No Averaging	> 36 dB
Max. Averaging	> 46 dB
Repeatability (excluding cutoff region) ²	
2 m fiber not moved	< 0.005 dB RMS
Measurement Speed	> 4 wavelengths/second
2200A-MMF Multimode Fiber Spectral Attenuation Option	
Wavelength Range	800 to 1600 nm
Dynamic Range (62.5 um, S/N=1) ¹	
No Averaging	> 48 dB
Max. Averaging	> 58 dB
Repeatability ²	
2 m fiber not moved	< 0.005 dB RMS
Measurement Speed	> 4 wavelengths/second
2204 Mode Field Diameter Option	
Fiber Types Measured	Standard single-mode
Applicable Standards	ITU-T G.650.1; IEC 60793-1-45; TIA/EIA FOTP-191
Wavelength Range	1100 to 1625 nm
Signal to Noise	> 33 dB (largest aperture)
Maximum Aperture	0.5 NA
Measurement Repeatability	
2 m fiber, not moved	< 0.3% (Standard fiber); < 0.5% (Dispersion shifted fiber)
2 m fiber, recleaved	< 1%
Accuracy	< 1% (NPL MFD Reference Fiber (1310/1550 nm))
Measurement Speed	< 90 seconds for 2 wavelengths (including fiber preparation)
General Specifications	
Environmental Requirements	
Specification Temperature	25° C
Operating Temperature	10 to 30° C
Storage Temperature	0 to 50° C
Humidity	< 80% relative humidity, non-condensing
Power Requirements	
Voltage	100 to 240 volts ± 10%
Frequency	50 to 60 Hz ± 5%
Power Consumption	< 250 Watts
Physical Dimensions	48" x 36" x 28" (122 cm x 92 cm x 71 cm)
Weight	110 lbs. (50 kg)

Notes:

1. 5 nm spectral width option decreases range by 2.5 dB
2. 5 nm spectral width option increases repeatability spec by 0.001 dB

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

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