PHOTON KINETICS

2550 Fiber Analysis System

High performance characterization of conventional and laser-optimized multimode fibers

Features

Bandwidth and Differential Mode Delay

- Characterizes the two key measures of multimode fiber transmission capacity performance.
- Overfilled-launch (OFL), time-domain, bandwidth.
- Single-mode launch, differential mode delay (SMLDMD), including calculation of the effective modal bandwidth (EMBc) and overfilled launch bandwidth (OMBc) from the DMD data.

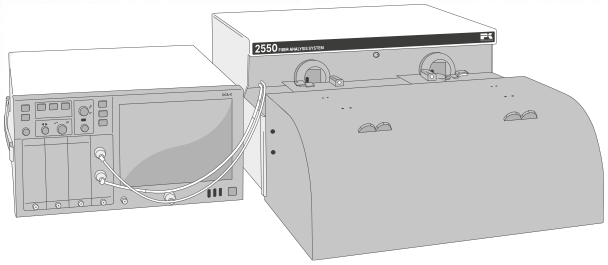
Versatile Measurement Platform

- Available in bandwidth-only, DMD-only, and combined bandwidth and DMD configurations.
- Several wavelength options to suit the type of fiber being characterized.
- Tunable laser-based, ultra-high resolution DMD configuration enables multi-wavelength characterization of short and ultra-low DMD fibers.

PKSL Software Application

- Simplifies creation of automated test sequences
- Facilitates customization of test sequences, creation of local language user interfaces
- Easy-to-use API facilitates customized, automated measurements and factory integration.

For more information contact
sales@pkinetics.com



Bandwidth

Differential Mode Delay

Specifications

Measurement			
Compatible Fibers	IEC Type A1-OM1 to -OM5 multimode fibers		
Standards and Methods			
Bandwidth	IEC 60793-1-41, Time Domain, Method A		
Differential Mode Delay	IEC 60793-1-49		
Performance			
Bandwidth			
Wavelength (nm)	850 ± 10		1300 ± 10
Spectral Width (nm, FWHM)	< 0.3		< 10
Dynamic Range (dB) [1]			
Short Pulse [2]	> 52		>45
Long Pulse [3]	> 65		>50
Differential Mode Delay			
Wavelength (nm)	850 ± 10	953 ± 10	800 to 980 ± 1.5 [4]
Spectral Width (nm, RMS)	0.3	<0.1	<0.05 [5]
Dynamic Range (dB)			
Ultra-short Pulse [6]	> 16		
Short Pulse [2]	> 50		
Long Pulse [3]	> 60		
Temporal Response (ps, FWQM)			
Ultra-short Pulse	< 100		< 35
Short Pulse	< 600		
Long Pulse	< 1940		

Configurations	Bandwidth		DMD		High Resolution DMD
	850 nm	1300 nm	850 nm	953 nm	800 to 980 nm
2550B-21	●	●			
2550D-11			●		
2550D-21			●	●	
2550D-HR					●
2550BD-21/11	●	●	●		
2550BD-21/21	●	●	●	●	

Notes:

1. *IEC A1-OM1 fiber.*
2. *10-1500 Mhz*
3. *10-400 MHz*
4. *Step tunable in < 15 seconds.*
5. *RMS width at 20 dB, k=1, Lorentzian distribution, transform-limited*
6. *10-10,000 MHz*

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Specifications subject to change without notice

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