PHOTON KINETICS

2314 Far Field Scanner

Reference test method measurement capability for both single-mode and multimode fibers

Features

Versatile, High Performance

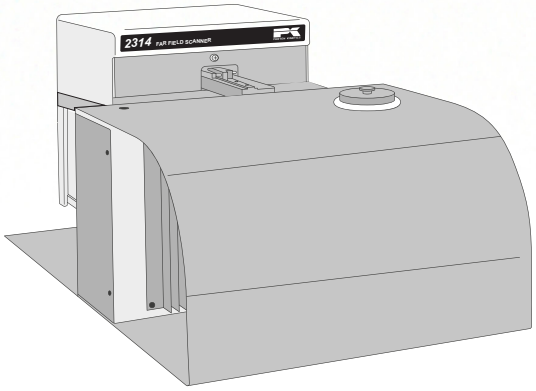
- Compact module provides mode field diameter and effective area measurement capability for single-mode fibers, plus multimode numerical aperture.
- Automated alignment and 160 data point measurement in less than 30 seconds.
- High dynamic range with a variety of laser and LED source options enables characterization of all standard single-mode and multimode fibers, as well as low cut-off and other specialty fiber types.

Add-on Option for 2300G and 2300AG Systems

- Utilizes the 2300's high-intensity, LED source for multimode numerical aperture measurements.

Simple Fiber Prep, Loading, and Alignment

- Measurement end prepared per standard PK fiber preparation procedures and tools.
- Launch end either coupled optically to 2300G/AG LED light source, or butt-coupled to the integrated 2314 laser or LED source module via a 1120 Bare Fiber Aligner.



Mode Field Diameter

Effective Area

Numerical Aperture

For more information contact
sales@pkinetics.com

Specifications

Measurement				
Compatible Fibers	IEC Type B and Type A1			
Standards and Methods Mode Field Diameter Effective Area Numerical Aperture	 IEC 60793-1-45, Direct Far Field Scan Method IEC 62284, Direct Far Field Method IEC 60793-1-43, Angular Scan (Technique 1)			
Performance	2314-0 Option	2314-1 System	2314-2 System	2314-3 System
Wavelength Range (nm)	850	500 to 980	980 to 1700	500 to 1700
Angular Scanning Range	± 60 °			
Detector Subtended Angle	< 0.08 °			
Minimum Scan Increment	< 0.12 °			
Dynamic Range (dB) [1] Mode Field Diameter/Effective Area Numerical Aperture	 >26 [2]	 > 75 [3] > 26 [6]	 > 75 [4]	 > 75 [5] > 26 [6]
Repeatability [7] Mode Field Diameter (%) Effective Area (%) Numerical Aperture	 < 0.1 < 0.5 < 0.005			
Accuracy (%) [8] Mode Field Diameter Effective Area	 < 1.0 < 2.0			
Measurement Time (s) [9]	< 30			
Configurations				
Light Source Options [10] Laser Wavelengths (nm)		632, 780, 850, 980	980, 1064, 1310, 1550, 1625	632, 780, 850, 980, 1064, 1310, 1550, 1625
LED Wavelengths (nm)	850	850	1300	850, 1300

Notes:

1. *Dynamic range dependent on specific source characteristics and averaging time, SNR=1.*
2. *Using 2300G/AG 850 nm LED core illuminator. IEC Type A1-OM2 fiber.*
3. *850 nm laser source.*
4. *1310 and 1550 laser sources.*
5. *850, 1310 and 1550 laser sources.*
6. *850 nm LED source. IEC Type A1-OM2 fiber.*
7. *Fiber not moved, cleave angle < 1%, 1 sigma (MFD and A_{eff}), 2-sigma (NA).*
8. *NPL MFD Reference fiber, 1310 and 1550 nm.*
9. *160 data points with automated alignment.*
10. *Nominal center wavelengths , tolerance ±10 nm.*

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Specifications subject to change without notice

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