

PMD500HS PMD measurement system

NEW



Continued innovation and investment at **PE.fiberoptics** has yielded yet another major improvement in the series of PMD measurement systems that began with the PMD3 and PMD400 and happily continues with the **PMD500HS**.

- All New Design
- High Speed PMD by Interferometry
- High Speed PMD by Fixed Analyzer & FFT
- Measurement range down to 0.005ps
- Fully IEC, TIA and ITU compliant
- PMD in less than 4 seconds
- New operating software 'PECON' in Windows 7™ and Windows 8™
- PECON is built on the Microsoft® .NET Framework
- Built-in Report Designer

The **PMD500HS** uses a combination of two standardised PMD measurement methods for fiber and cable testing to obtain a wide PMD measurement range.

New interferometer design with enhanced motion linearity and programmable scans.

New from-the-ground-up DSP and detection technology reduces measurement noise and greatly improves measurement speed and enables testing of all typical lengths encountered in Fiber and Cable manufacturing.

Considerable investment has been made in the programming to control the system. **PE.fiberoptics**' latest controller package 'PECON' has been built on the Microsoft® .Net Framework which has resulted in an all-new software package that maintains our philosophy of simplicity, stability and user friendliness, whilst adding powerful features such as an all-new Report Designer.

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Preliminary Specifications

Measurement according to applicable TIA/IEC/ITU recommendations.

Polarisation Mode Dispersion			
	Fixed Analyser	Interferometry	
Measurement Standards	IEC-60793-1-48	IEC-60793-1-48	
	TIA-EIA-455-113	TIA-EIA-455-124	
Measurement range (ps)	0.005 to 1.6	0.06 to 200	min to max DGD range
Wavelengths covered (nm)	1250 to 1650	1550	wavelengths available to user specification.
Measurement speeds	20 seconds	4 seconds	Typical scan times
Repeatability	<0.005ps	<0.01ps	Based on 20 scans of PMD546 0.3ps weak mode coupling artefact calibration artefact
Accuracy/Uncertainty	<0.01 +/- 1% DGD	<0.01 +/- 1% DGD	
	<.02 +/- 2% PMD	<.02 +/- 2% PMD	typical Based on 20 scans of 50km spool G652 fiber on shipping spool.

PMD500HS series product datasheet issue 1.0.2

All specifications are typical based on systems using High power CD525 option and subject to improvement or modification without notice or obligation.

Specifications vary dependant on fiber length and type.

Please refer to detailed specification sheet for confirmation.

Please refer to any formal offers for specification guarantees.

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This product complies with 21 CFR 1040.10 Class I LED product

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