

PMD Analyzer

FTB-5500B



Less than 5-second testing time for any PMD range

Covers all transmission bands

No auto-correlation peak, for enhanced accuracy

Patented design: test through EDFAs



Fiber-optic T&M,
monitoring, manufacturing
and assembly solutions

EXFO

Measuring PMD the Fast Way

PMD represents a significant danger to both legacy and newly deployed networks. And as systems of 10 Gb/s and faster develop, PMD concern and awareness continue to grow. EXFO's FTB-5500B PMD Analyzer helps you get ahead in the field. Whether you need to verify the capacity of legacy fiber or maintain a network, the modular FTB-5500B is fast, reliable, and ready to go.

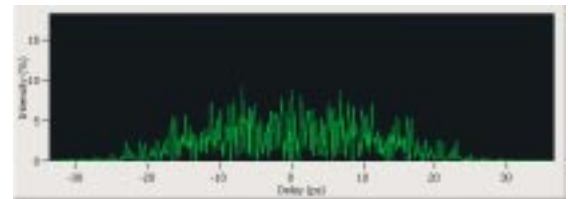


Less than 5-Second Testing Time

The rugged FTB-5500B features a market-leading PMD measurement time of less than five seconds—for any PMD value. Improve your testing efficiency. Reduce testing costs. Test more fiber, and test it faster.

A Unique Approach to Testing Through EDFAs and Removing Auto-correlation Peaks

The FTB-5500B's unique technology allows for both the auto-correlation and cross-correlation to be known. Therefore, any spectral shape of source can be used. The auto-correlation peak is thus removed, and higher accuracy and resolution are obtained. PMD of 0 ps can be measured. In addition, a signal transmitted through EDFAs can be analyzed for total link PMD.



Key Features

- No auto-correlation peak, for increased accuracy and resolution
- Testing through EDFAs
- Under five-second testing time for any range
- Minimum measurable PMD: 0 ps

Field-Proof, Advanced Technology

The FTB-400 UTS Advantage

Housed in the tough, light-magnesium-shell and rubber-bumpered FTB-400 Universal Test System, the FTB-5500B PMD Analyzer will survive knocks, bumps and drops. Combine up to seven single-slot, field-interchangeable modules in the powerful FTB-400 for simultaneous support of multiple testing applications (CD analyzer, OTDR and OLTS, among others).

The FLS-5800 CD/PMD Analyzer Source Advantage

A single light source, the FLS-5800 CD/PMD Analyzer Source, can help you characterize both chromatic dispersion (CD) and polarization mode dispersion (PMD)—reducing testing time and minimizing the potential for human error.

Second-Order PMD

Particularly important in multichannel transmission, second-order PMD is derived from the measured PMD value. EXFO's software provides second-order PMD delay and coefficient values for telecom fibers. These values allow you to characterize fibers and cables more precisely than simple PMD and better control the transmission quality of high-speed systems.

ToolBox Software Solutions

PMD Touch and Go

EXFO's ToolBox software suite runs the FTB-400's test module applications. The user-friendly touchscreen provides easy access to menus and functions, for highly productive, yet simple testing in the field.

Simple Step-by-Step Measurements

Step-by-step instructions make testing easy and virtually error-free. Both new users and experts can obtain fast, accurate and efficient PMD measurements with minimal training. The analysis software calculates and displays a fiber's total PMD and coefficient, as well as the second-order PMD value and coefficient.

Multiple Measurement Possibilities

Check for long-term stability. Make several PMD measurements over long time periods with the Multiple Measurement mode, and monitor PMD changes over an extended time.

Statistical Result Tables

View your results quickly and easily. After completing multiple tests, the FTB-5500B PMD Analyzer automatically compiles the results in a table and provides statistical analysis:

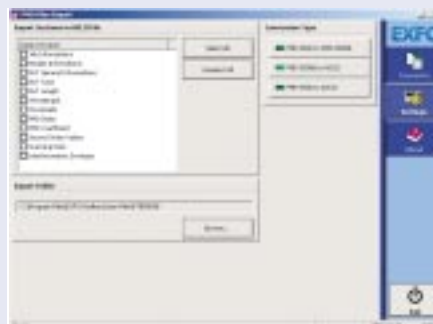
- Mean PMD delay and coefficient
- Standard deviation PMD delay and coefficient
- Minimum and maximum PMD delay and coefficient

Benefit from powerful statistical analysis for

- Averaging multiple tests on one fiber
- Averaging sets of pre-averaged fibers to produce cable stats
- Gathering data from end-to-end fibers and calculating of total PMD (link creation)

Data Management Features

Manage all your data with ease. EXFO's software includes various data management features, such as automatic file naming and statistical and table management, as well as custom report generation and batch printing. The software also comes with a file converter, which transforms PMD files into text files.



Specifications (preliminary)

Wavelength range (nm)	1260 to 1675 (O to U band)
Measurement range (ps)	0 to 115
Dynamic range (dB)	51' (not including EDFA testing)
Measuring time (s)	4.5 (for any PMD value)

General Specifications

Temperature	operating	0 °C to 40 °C	(32 °F to 104 °F)
	storage	-40 °C to 70 °C	(-40 °F to 158 °F)
Relative humidity		0 % to 93 % non-condensing	
Size (H x W x D) (module only)		9.6 cm x 7.6 cm x 26.0 cm	(3 3/4 in x 3 in x 10 1/4 in)
Weight (module only)		1.5 kg	(3.4 lb)

Note:

1. Typical, C-band with FLS-5800. May be increased with averaging.

Ordering Information

<p>PMD Analyzer</p> <p>FTB-5500B-XX</p> <p>Connector</p> <ul style="list-style-type: none"> EI-EUI-28 = UPC/DIN 47256 EI-EUI-76 = UPC/HMS-10/AG (EI only) EI-EUI-89 = UPC/FC narrow key EI-EUI-90 = UPC/ST (EI only) EI-EUI-91 = UPC/SC EI-EUI-95 = UPC/E-2000 EA-EUI-28 = APC/DIN 47256 EA-EUI-89 = APC/FC narrow key EA-EUI-91 = APC/SC EA-EUI-95 = APC/E-2000 <p>Example: FTB-5500B-EI-EUI-89</p>	<p>CD/PMD Analyzer Source</p> <p>FLS-58XX-XX</p> <p>Model</p> <ul style="list-style-type: none"> FLS-5803 = 1550 nm SuperLED FLS-5804 = 1625 nm SuperLED FLS-5834 = 1550 nm and 1625 nm SuperLEDs <p>Connector</p> <ul style="list-style-type: none"> EI-EUI-28 = UPC/DIN 47256 EI-EUI-76 = UPC/HMS-10/AG (EI only) EI-EUI-89 = UPC/FC narrow key EI-EUI-90 = UPC/ST (EI only) EI-EUI-91 = UPC/SC EI-EUI-95 = UPC/E-2000 EA-EUI-28 = APC/DIN 47256 EA-EUI-89 = APC/FC narrow key EA-EUI-91 = APC/SC EA-EUI-95 = APC/E-2000 <p>Example: FLS-5803-EI-EUI-89</p>	<p>Polarized Light Source</p> <p>FLS-110-XXP-XX</p> <p>Model</p> <ul style="list-style-type: none"> FLS-110-02P = 1310 nm LED FLS-110-03P = 1550 nm LED <p>Connector</p> <ul style="list-style-type: none"> 58 = FC/APC narrow key 89 = FC/UPC 91 = SC/UPC EI-EUI-28 = UPC/DIN 47256 EI-EUI-76 = UPC/HMS-10/AG (EI only) EI-EUI-89 = UPC/FC narrow key EI-EUI-90 = UPC/ST (EI only) EI-EUI-91 = UPC/SC EI-EUI-95 = UPC/E-2000 EA-EUI-28 = APC/DIN 47256 EA-EUI-89 = APC/FC narrow key EA-EUI-91 = APC/SC EA-EUI-95 = APC/E-2000 <p>Example: FLS-110P-02P-EI-EUI-89</p>
---	--	---

Standard Accessories

User Guide, Certificate of Calibration, connector cleaners.

CORPORATE HEADQUARTERS	465 Godin Avenue	Vanier (Quebec) G1M 3G7 CANADA	Tel.: 1 418 683-0211 · Fax: 1 418 683-2170
EXFO AMERICA	1201 Richardson Drive, Suite 260	Richardson TX 75080 USA	Tel.: 1 800 663-3936 · Fax: 1 972 907-2297
EXFO EUROPE	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85 · Fax: +33.1.40.83.04.42
EXFO ASIA-PACIFIC	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241 · Fax: +65 6333 8242
EXFO CHINA	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. China	Tel.: +86 (10) 6849 2738 · Fax: +86 (10) 6849 2662
TOLL-FREE (USA and Canada)	Tel.: 1 800 663-3936		www.exfo.com · info@exfo.com

EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices.

Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

For the most recent version of this spec sheet, please go to the EXFO Web site at <http://www.exfo.com/support/techdocs.asp>
In case of discrepancy, the Web version takes precedence over any printed literature.

