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Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can all us for FREE!

TMG Corporate Website **TMG Products Website**

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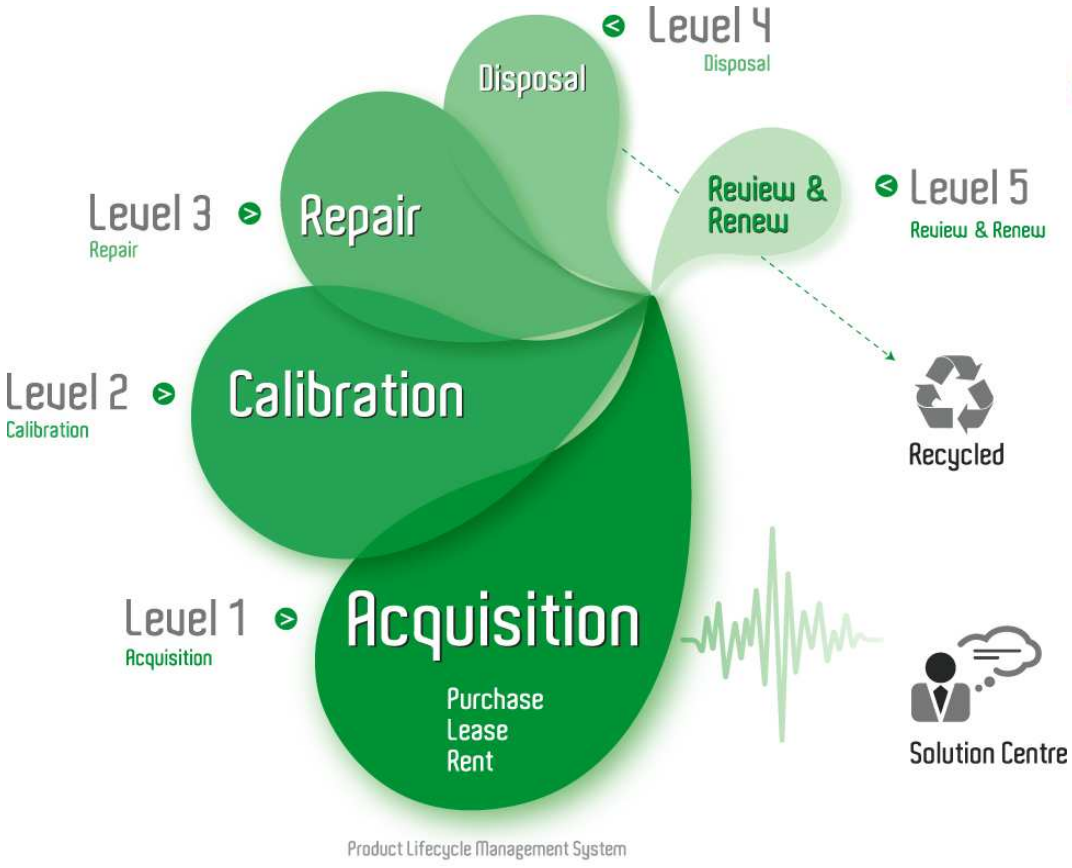

FTB-5700

NETWORK TESTING—OPTICAL

The ultimate CD/PMD characterization solution

- Single-ended PMD and CD measurements
- **The advantage of one**: complete dispersion analysis with a single module, a single connector and a one-step test setup
- Unparalleled software user-friendliness: all automated
- Testing range: up to 120 km

Platform Compatibility

- FTB-400 Universal Test System
- FTB-200 Compact Platform

2004 FROST & SULLIVAN
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EXPERTISE REACHING OUT

The Only Combined CD and PMD Test Module on the Market

Building on EXFO's market-proven dispersion testing expertise, the FTB-5700 Single-Ended Dispersion Analyzer combines chromatic dispersion and polarization mode dispersion measurement into a single, highly automated, high-efficiency test solution. It offers the true advantage of one–one-ended testing using one module, one connector and a one-step test setup and delivering one combined results file–dramatically reducing the cost of ownership and speeding up the learning curve, the test cycles as well as the reporting.

Housed in either of EXFO's multimodular portable platforms, the FTB-200 Compact Platform and the FTB-400 Universal Test System, the FTB-5700 delivers straightforward, yet advanced CD and PMD characterization in a single affordable instrument optimized for both entry-level and seasoned technicians.

CD and PMD Testing Combo—The Benefits

One, lightweight unit that:

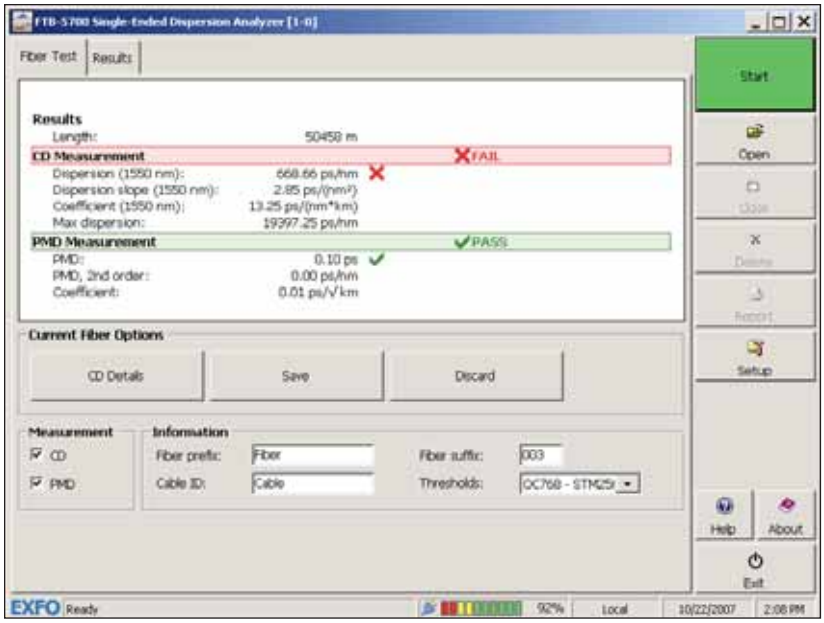
- Provides exclusive single-ended testing technology
- Enables one technician to test both CD and PMD
- Requires only one training session
- Minimizes manual interventions, for fail-safe results
- Reduces required connections to just one
- Saves valuable processing time—one GUI, one results file, one report

* High reflection (4% or more) required at far end, using an unterminated UPC connector or reflector connector.

Characterize CD in a Snap

The ongoing race to develop high-speed transmission systems and to increase available bandwidth is facing certain limitations. Chromatic dispersion (CD) measurements are becoming more and more critical for carriers and service providers looking to upgrade their systems to faster transmission rates, such as 10 Gbit/s (OC-192/STM-64), and longer routes, thanks to the advent of reconfigurable optical add/drop multiplexers (ROADMs).

What's more, since the eight test points are configurable, the FTB-5700 never "loses" test points due to high attenuation. Whatever the link, test parameters are automatically optimized.



The FTB-5700 features a highly intuitive user interface presenting straightforward pass/fail results.

ITU	Common Name	Default Test Wavelengths Range*
G.652	Standard Fiber	1475 - 1626 nm
G.653	Dispersion-Shifted Fiber (DSF)	1475 - 1626 nm
G.654	Cut-off Shifted Fiber	1530 - 1626 nm
G.655	Non-Zero Dispersion-Shifted Fiber (NZDSF)	1475 - 1626 nm
G.656	Wideband Non-Zero Dispersion Fiber	1475 - 1626 nm

* Being configurable, the FTB-5700 automatically selects the proper test wavelength according to fiber type.

Key CD Testing Features

- Groundbreaking single-ended testing technology
- Link-length measurement
- Network recognition: automatically adopts the proper parameter setups
- Complies with ITU G.65X fiber testing standards

The Only Single-Ended PMD Analyzer on the Market

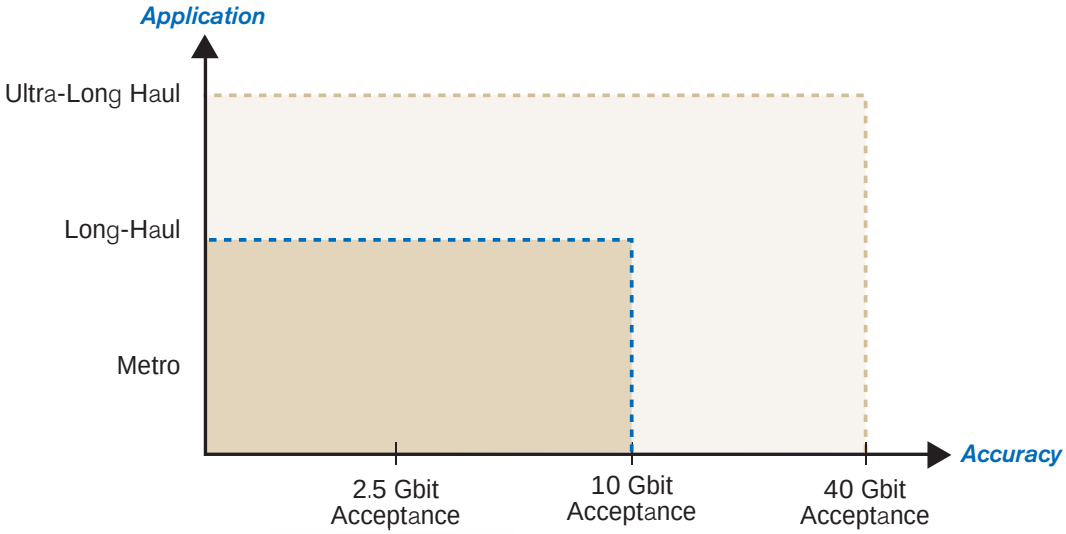
PMD is a real threat to both legacy and newly deployed networks. And as high-speed services–namely 10 Gbit/s–are being massively deployed, PMD awareness continues to grow. Whether you need to assess the PMD level of legacy fiber or perform network maintenance, EXFO's FTB-5700 PMD Analyzer FTB-5700 is fast, reliable and ready to go.

Key PMD Testing Features

- The only single-ended PMD analyzer on the market: reduced both the testing time and operational expenses (OPEX)
- Random SOP scrambling: robust technology for aerial fibers
- Based on TIA FOTP-124A and IEC 61282-9

PMD is an average of delay values over a given wavelength range and state of polarization. The FTB-5700 being tunable, over 200 wavelength pairs are acquired, all at different states of polarization. Each pair provides a delay point.

For even higher accuracy, you can launch multiple scans and perform an averaging of all test results.

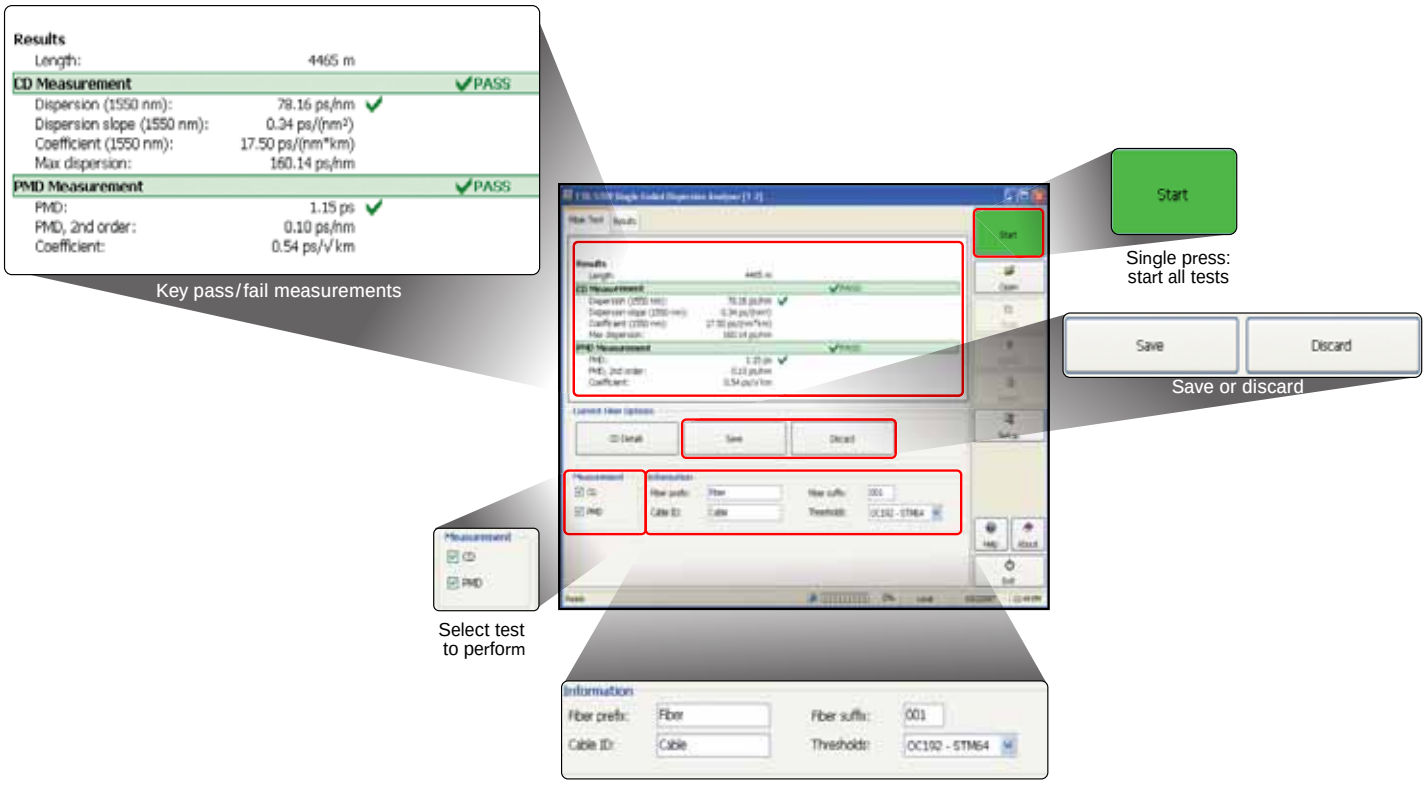


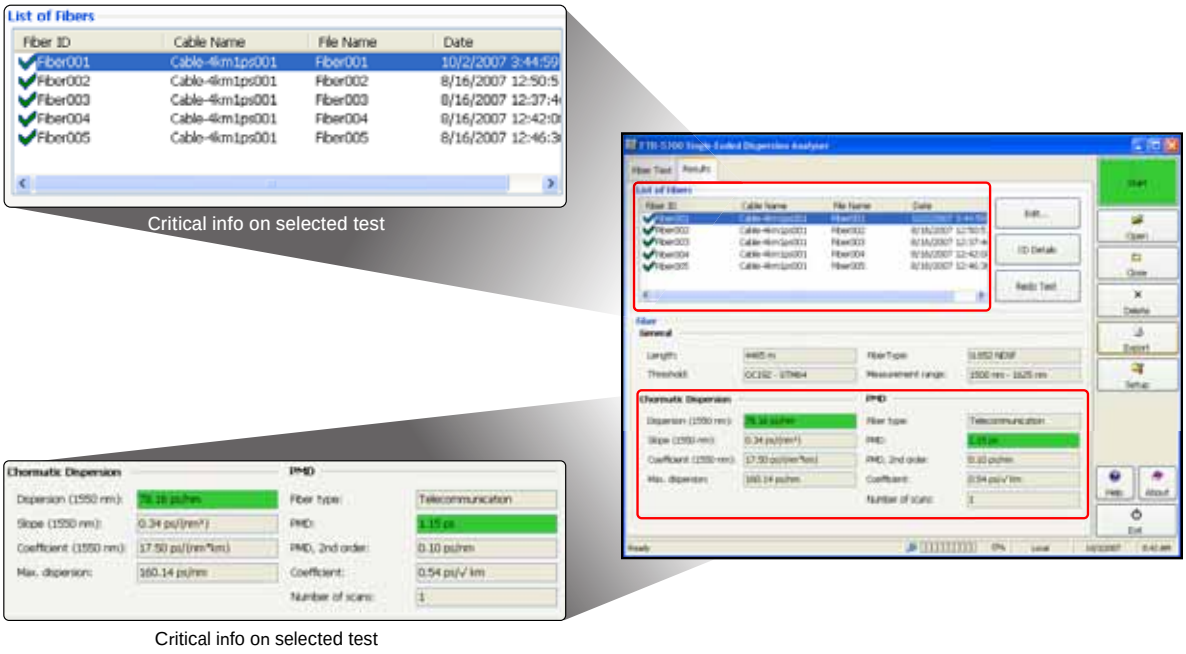
FTB-5700

FTB-5500/
FTB-5800

A Highly Intuitive User Interface with No Setup Required

Featuring easy-to-read pass/fail results and providing a view of all key parameters and values on one screen, the FTB-5700's user interface is all about field testing simplicity and efficiency.



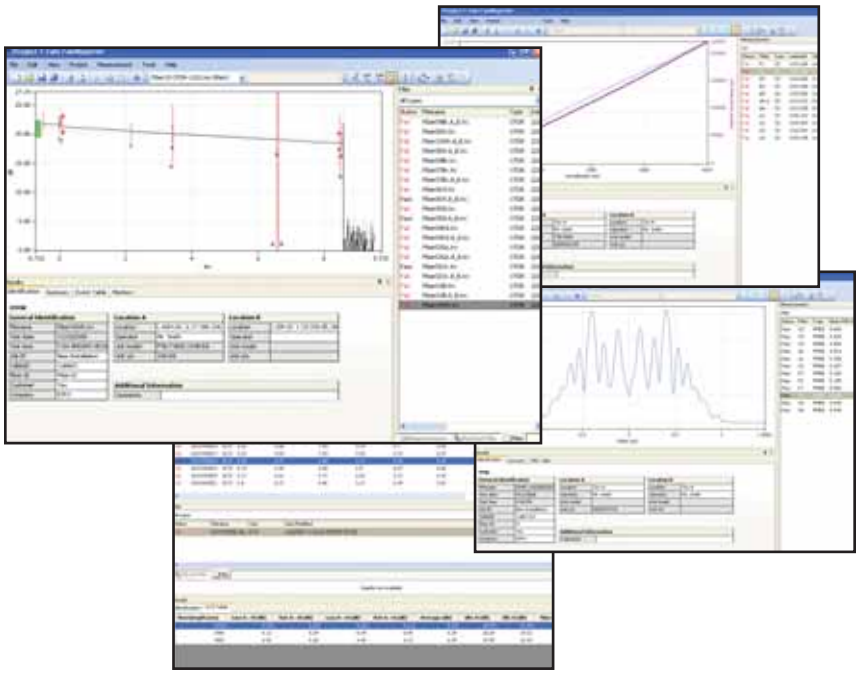


Fast-Track Data Post-Processing with FastReporter Software

The optional FastReporter software package provides you with the postprocessing tools and functionalities you need to optimize your test cycles, whatever the application. Designed for off-line analysis of field-acquired data, FastReporter offers a truly intuitive graphical user interface, which contributes to boosting productivity.

Flexible Reporting

Choose from various report templates, including PMD, CD and fiber characterization. Generate comprehensive cable reports in PDF, Excel or HTML format.



EXFO's Dispersion Analyzer Series: Applications Chart

For extreme accuracy and ultra-long-haul network applications, EXFO also offers the FTB-5800 CD Analyzer and FTB-5500B PMD Analyzer. This chart shows the list of applications for each of EXFO's dispersion analyzer series.

		FTB-5700 Single-Ended Dispersion Analyzer	FTB-5500B PMD Analyzer	FTB-5800 CD Analyzer
10 Gbit/s	Short reach	√	√	√
	Long reach	√	√	√
	Ultra-long reach		√	√
	Amplified link		√	√
	Compensation	√	√	√
40 Gbit/s	Short reach		√	√
	Long reach		√	√
	Ultra-long reach		√	√
	Amplified link		√	√
	Compensation		√	√

SPECIFICATIONS (PRELIMINARY) [a]

Measured wavelength range (nm)	1475 to 1626
Maximum measurement distance (km)	≥120
Distance uncertainty (km)	± (0.01 + 1 % x distance)
Chromatic dispersion [b]	
Number of test points	8
CD uncertainty (ps/nm)	± 12
Test time (s)	40
PMD [c]	
PMD range (ps)	0.5 to 15
Test time (s)	180

GENERAL SPECIFICATIONS

Temperature		
Operating	0 °C to 50 °C	(32 °F to 122 °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)	96 mm x 50 mm x 281 mm	(3 3/4 in x 2 in x 11 in)
Weight	1.3 kg	(2.8 lb)

Notes

a. Typical.

b. At 1550 nm, on 50 km of G.652 singlemode fiber.

c. For a fiber length ≥ 100 m.

ORDERING INFORMATION

FTB-5700-XX-XX

Model

FTB-5700-CD-PMD = Single-ended CD and PMD analyzer
FTB-5700-PMD = Single-ended PMD analyzer
FTB-5700-CD = Single-ended CD analyzer

Connector

EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
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

Example: FTB-5700-CD-PMD-EI-EUI-89

For extreme accuracy and ultra-long-haul network applications, EXFO also offers the FTB-5800 CD Analyzer and FTB-5500B PMD Analyzer. For these modules, the above connector choice applies, but the FLS-5834A light source is required.

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