

# FTB-7200

NETWORK TESTING—OPTICAL



Dual- and quadruple-wavelength OTDRs: first-class features for singlemode and multimode testing

- Top flexibility and cost-effectiveness: four wavelengths (12CD-23B model) combined with an optional visual fault locator (VFL)
- 850, 1300, 1310 and 1550 nm wavelengths with respective dynamic ranges of 27, 26, 37 and 35 dB
- Shortest dead zones in the industry: event dead zone of 1 m, and attenuation dead zone of 4.5 m for singlemode fiber and 3 m for multimode fiber
- Controlled launch conditions, for more accurate loss measurements
- A single module for optimized testing on both 50 mm and 62.5 mm multimode fiber
- Designed for real-life applications: characterizes the high reflectance of field-installed connectors

## Platform Compatibility

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

## EXTRA FLEXIBLE. MORE ACCURATE. MADE TO PERFORM.

Introducing the FTB-7200D-12CD-23B Premises Network OTDR, a single-slot module that combines singlemode and multimode fiber test functionalities. Housed in either of EXFO's portable test platforms, the FTB-400 Universal Test System and FTB-200 Compact Platform, this module features four wavelengths and an optional visual fault locator (VFL).

With its unrivalled dead zones, high dynamic ranges and great all-around specifications, the FTB-7200D-12CD-23B provides pinpoint measurements—what you need for highly efficient multimode/singlemode OTDR performance.

Also available is the multimode-only version, the FTB-7200D-12CD.

## SPECIFICATIONS <sup>a</sup>

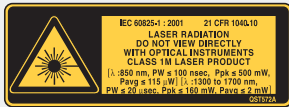
All specifications below apply to the FTB-7200D-12CD-23B multimode (MM)/singlemode (SM) model and the FTB-7200D-12CD multimode-only version.

Model	Wavelength (nm)	Dynamic range <sup>b,c</sup> (dB)	Event dead zone <sup>d</sup> (m)	Attenuation dead zone <sup>e</sup> (m)
FTB-7200D-12CD-23B/FTB-7200D-12CD	850 ± 20/1300 ± 20	27/26	1/1	3/4
	1310 ± 20/1550 ± 20	37/35	1/1	4.5/5
Distance range (km)	Multimode: 0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40 Singlemode: 1.3, 2.5, 5, 10, 20, 40, 80, 160, 260			
Pulse width (ns)	Multimode: 5, 10, 30, 100, 275, 1000 Singlemode: 5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000			
Launch conditions <sup>a</sup>	Class CPR 1 or 2			
Linearity (dB/dB)	± 0.03			
Loss threshold (dB)	0.01			
Loss resolution (dB)	0.001			
Sampling resolution (m)	Multimode: 0.04 to 2.5 Singlemode: 0.04 to 5			
Sampling points	Up to 128 000			
Distance uncertainty <sup>f</sup> (m)	± (0.75 + 0.0025 % x distance)			
Measurement time	User-defined (60 min maximum)			
Real-time refresh (s)	Guaranteed: ≤ 0.4			
Stable source output power <sup>g</sup> (dBm)	-1.5 (1300 nm), -7 (1550 nm)			
Visual fault locator (optional)	Laser, 650 nm ± 10 nm CW, typical Pout in 62.5/125 µm: 3 dBm (2 mW)			

### NOTES

- All specifications valid at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) with an FC/PC connector, unless otherwise specified.
- Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
- Multimode dynamic range is specified for 62.5 mm fiber; a 3 dB reduction is seen when testing 50 mm fiber.
- Typical dead zone for multimode reflectance below -35 dB and singlemode reflectance below -45 dB, using a 5 ns pulse.
- Controlled launch conditions allow 50 mm and 62.5 mm multimode fiber testing.
- Does not include uncertainty due to fiber index and sampling resolution.
- Typical output power is given at 1300 nm for multimode output and 1550 nm for singlemode output.

## LASER SAFETY



21 CFR 1040.10 AND IEC 60825-1:1993+A2:2001  
CLASS 1M WITHOUT VFL OPTION  
CLASS 3R WITH VFL OPTION

## ORDERING INFORMATION

### FTB-7200D-XX-XX-XX

#### Model

FTB-7200D-12CD-23B = Four-wavelength MM/SM OTDR module, 850/1300 nm (50/125 µm and 62.5/125 µm) and 1310/1550 nm (9/125 µm)

FTB-7200D-12CD = Dual-wavelength MM OTDR module, 850/1300 nm (50/125 µm and 62.5/125 µm)

Example: FTB-7200D-12CD-23B-EI-EUI-89-EA-EUI-95-VFL

#### NOTES

- Please refer to the example above. First select the multimode connector, and then the singlemode connector.
- Singlemode only.

#### Visual fault locator

- 00 = Without visual fault locator
- VFL = With visual fault locator (universal 2.5 mm connector)

#### Connector<sup>a</sup>

- EA-EUI-28 = APC/DIN 47256<sup>b</sup>
- EA-EUI-89 = APC/FC narrow key<sup>b</sup>
- EA-EUI-91 = APC/SC<sup>b</sup>
- EA-EUI-95 = APC/E-2000<sup>b</sup>
- 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

#### Rugged Handheld Solutions

##### OPTICAL

- OTDRs
- Power meters
- Light sources
- Talk sets

##### COPPER ACCESS

- ADSL/ADSL2+, SHDSL, VDSL test sets
- VoIP and IPTV test sets
- Ethernet test sets
- POTS test sets

#### Platform-Based Solutions

##### OPTICAL FIBER

- OTDRs
- OLTs
- ORL meters
- Variable attenuators

##### DWDM TEST SYSTEMS

- OSAs
- PMD analyzers
- Chromatic dispersion analyzer

##### TRANSPORT AND DATA COM

- Next Generation SONET/SDH and OTN testers
- SONET/DSn (DS0 to OC-192) testers
- SDH/PDH (64 kb/s to STM-64) testers
- T1/T3, E1 testers
- 10/100M and Gigabit Ethernet testers
- Fibre Channel testers
- 10 Gigabit Ethernet testers

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at [www.EXFO.com](http://www.EXFO.com).

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