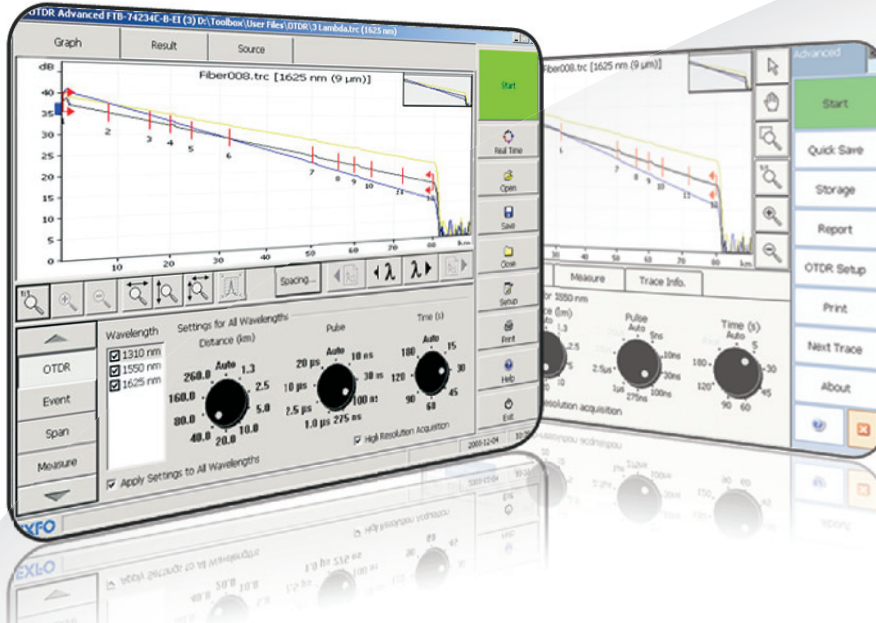


FTB-7500E—Metro/Long-Haul OTDR

LONG-DISTANCE FIBER CHARACTERIZATION AND FIBER UPGRADES



High dynamic range combined with high resolution, for truly accurate fiber characterization

KEY FEATURES

- Dynamic range of up to 45 dB
- Up to 256 000 sampling points
- Event dead zone of 0.8 m and attenuation dead zone of 4 m
- Industry-leading linearity of ± 0.03 dB/dB

APPLICATIONS

- Metro network testing
- Long-haul network testing

PLATFORM COMPATIBILITY



Platform
FTB-500



Compact Platform
FTB-200



Assessing
Next-Gen Networks

All specifications valid at 23 °C ± 2 °C with an FC/PC connector, unless otherwise specified.

TECHNICAL SPECIFICATIONS ^a

Model ^a	FTB-7500E
Wavelengths (nm) ^b	1310 ± 20/1550 ± 20/1625 ± 10
Dynamic range at 20 μs (dB) ^c	45/45/45
Event dead zone (m) ^d	0.8
Attenuation dead zone (m) ^d	4/4.5/4.5
Distance range (km)	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400
Pulse width (ns)	5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000
Linearity (dB/dB) ^b	± 0.03
Loss threshold (dB)	0.01
Loss resolution (dB)	0.001
Sampling resolution (m)	0.04 to 5
Sampling points	Up to 256 000
Distance uncertainty (m) ^e	± (0.75 + 0.001 % x distance + sampling resolution)
Measurement time	User-defined (5 sec. minimum to 60 min. maximum)
Typical real-time refresh (Hz)	4
Stable source output power (dBm) ^f	-1 (7500E-0023B)
Visual fault locator (optional) ^b	Laser, 650 nm ± 10 nm CW, P _{out} in 62.5/125 μm: 1.5 dBm (1.4 mW)

Notes

- For complete details on all available configurations, refer to the Ordering Information section.
- Typical.
- Typical dynamic range with a three-minute averaging at SNR = 1. Typical dynamic range at 1550 nm for the FTB-7500E-0023B configuration is 2 dB lower.
- Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.
- Does not include uncertainty due to fiber index.
- Typical output power value at 1550 nm.

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007
CLASS 1M WITHOUT VFL OPTION
CLASS 3R WITH VFL OPTION



ORDERING INFORMATION

Singlemode (METRO/LONG-HAUL)

FTB-7500E-XX-XX-VFL-XX

Model

Dual-wavelength

FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm)^aFTB-7500E-0034B = SM OTDR module, 1550/1625 nm (9/125 μm)^a

Example: FTB-7500E-0023B-EI-EUI-89-VFL-AD

Software Option

00 = Without software option

AD = Macro bend finder and linear view^b

Visual fault locator (universal 2.5 mm connector)

Connector

EA-EUI-28 = APC/DIN 47256

EA-EUI-89 = APC/FC narrow key

EA-EUI-91 = APC/SC

EA-EUI-95 = APC/E-2000

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

Note

a. VFL always included.

b. This software option is compatible only on FTB-200 platform.

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