

MaxTester 710B Last-Mile OTDR

POINT-TO-POINT (P2P) LINKS, LAST-MILE INSTALLATION AND TROUBLESHOOTING



Fully featured, entry-level, dedicated OTDR with tablet-inspired design perfect for frontline singlemode fiber installers.

KEY FEATURES

Handy, lightweight, powerful, tablet-inspired design

7-inch, outdoor-enhanced touchscreen – the biggest in the handheld industry

12-hour autonomy

Dead zones: EDZ 1 m, ADZ 4 m

Dynamic range of 30/28 dB

Rugged design built for outside plant

APPLICATIONS

FTTx last-mile installation and troubleshooting

Short access network testing

FTTA-fiber DAS installations

CATV/HFC network testing

COMPLEMENTARY PRODUCTS AND OPTIONS



Data Post-Processing Software
FastReporter 2



Soft Pulse Suppressor Bag
SPSB

EXFO

COST-OPTIMIZED AND COMPREHENSIVE OTDR

The MAX-710B is the first tablet-inspired OTDR that is handy, lightweight and rugged enough for any outside plant environment. With a 7-inch, outdoor-enhanced touchscreen, the most efficient handheld display in the industry, it delivers an unprecedented user experience. Its intuitive and Windows-like GUI ensures a fast learning curve. Plus, its new and improved OTDR 2.0 environment offers icon-based functions, instant boot-up, automatic macrobend finders as well as improved auto and real-time modes.

The Max-710B is a genuine last-mile OTDR from the world's leading manufacturer. It delivers EXFO's tried and true OTDR quality and accuracy along with the best optical performance for first-time-right results, every time. It is optimized for the point-to-point testing and troubleshooting of FTTx architectures, and is ideal for testing short fibers (e.g., inside a CO environment or at FTTA/DAS network installations).

In addition to its amazing 12-hour battery life that will never let you down, it offers plug-and-play hardware options, like the VFL, power meter and USB tools.

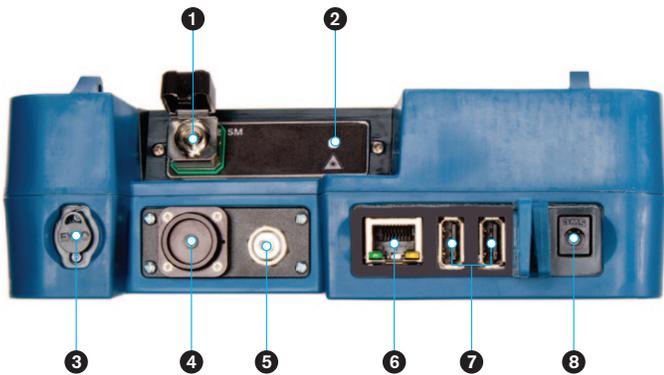
Ultimately, the Max-710B is small enough to fit in your hand and big enough to fit all your needs!

SOFTWARE UTILITIES

Software update	Ensure that your MaxTester is up-to-date with the latest software.
VNC configuration	The Virtual Network Computing utility allows technicians to easily control the unit remotely using a computer or laptop.
Microsoft Internet Explorer	Access the Web directly from your device interface.
Data mover	Transfer all your daily test results quickly and easily.
Centralized documentation	Instant access to user guides and other relevant documents.
Wallpapers	Enhance your work environment with colorful and scenic backgrounds.
PDF Reader	View your reports in PDF format.

PACKAGED FOR EFFICIENCY

- 1 Singlemode OTDR port
- 2 Testing LED indicator
- 3 Stylus
- 4 Power meter
- 5 Visual fault locator
- 6 10/100 Mbit/s Ethernet port
- 7 Two USB 2.0 ports
- 8 AC adapter
- 9 Home/switch application and screen capture (hold)
- 10 Power on/off/standby
- 11 Battery LED status



SPECIFICATIONS^a

TECHNICAL SPECIFICATIONS	MAXTESTER 710B
Display	178 mm (7 in) outdoor-enhanced touchscreen, 800 x 480 TFT
Interfaces	Two USB 2.0 ports RJ-45 LAN 10/100 Mbit/s
Storage	2 GB internal memory (20 000 OTDR traces, typical)
Batteries	Rechargeable lithium-polymer battery 12 hours of operation as per Telcordia (Bellcore) TR-NWT-001138
Power supply	Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz, 9-16 V DCIN 15 Watts minimum
Wavelength (nm) ^b	1310/1550
Dynamic range (dB) ^c	30/28
Event dead zone (m) ^d	1
Attenuation dead zone (m) ^d	4
Distance range (km)	0.1 to 160 km
Pulse width (ns)	5 ns to 20 us
Linearity (dB/dB)	±0.05
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 + 0.005 % x distance + sampling resolution)
Measurement time	User-defined (60 min. maximum)
Reflectance accuracy (dB)	±2
Typical real-time refresh (Hz)	3
Laser safety	1M

Notes

- All specifications valid at 23 °C ± 2 °C with an FC/APC connector, unless otherwise specified.
- Typical.
- Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
- Typical dead zone for reflectance below -55 dB, using a 5 ns pulse. Attenuation dead zone at 1310 nm is 5 m typical with reflectance below -45 dB.
- Does not include uncertainty due to fiber index.

GENERAL SPECIFICATIONS

Size (H x W x D)	200 mm x 155 mm x 68 mm (7 ⁷ / ₁₆ in x 6 ¹ / ₈ in x 2 ³ / ₄ in)
Weight (with battery)	1.29 kg (2.8 lb)
Temperature	Operating: -10 °C to 50 °C (14 °F to 122 °F) Storage: -40 °C to 70 °C (-40 °F to 158 °F) ^a
Relative humidity	0 % to 95 % noncondensing

SOURCE (optional)

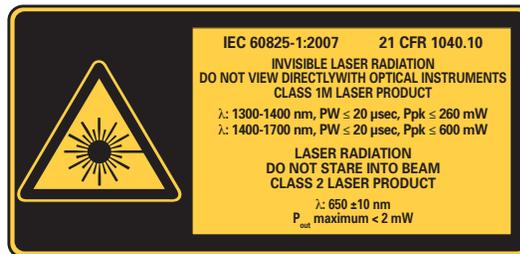
Output power (dBm) ^b	-11.5
Modulation	CW, 1 kHz, 2 kHz

BUILT-IN POWER METER SPECIFICATIONS (GeX) (optional)^c

Calibrated wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm) ^d	27 to -50
Uncertainty (%) ^e	±5 % ± 10 nW
Display resolution (dB)	0.01 = max to -40 dBm 0.1 = -40 dBm to -50 dBm
Automatic offset nulling range ^{d,f}	Max power to -34 dBm
Tone detection (Hz)	270/330/1000/2000

VISUAL FAULT LOCATOR (VFL) (OPTIONAL)

Laser, 650 nm ± 10 nm
CW/Modulate 1 Hz
Typical P _{out} in 62.5/125 μm: > -1.5 dBm (0.7 mW)
Laser safety: Class 2

LASER SAFETY

COMPLIES WITH 21 CFR 1040.10
EXCEPT FOR DEVIATIONS PURSUANT
TO LASER NOTICE NO.50,
DATED JUNE 24, 2007.

ACCESSORIES

GP-10-092	Semi-rigid carrying case	GP-2016	10-foot RJ-45 LAN cable
GP-10-093	Rigid carrying case	GP-2144	USB 16G micro-drive
GP-302	USB mouse	GP-2155	Carry-on size backpack ^b
GP-1008	VFL adapter (2.5 mm to 1.25 mm)	GP-2205	DC vehicle battery-charging adaptor (12 V)
GP-2001	USB keyboard		

Notes

- 20 °C to 60 °C (-4 °F to 140 °F) with the battery pack.
- Typical output power is given at 1550 nm.
- At 23 °C ± 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 20-minute warm-up.
- Typical.
- At calibration conditions.
- For ±0.05 dB, from 10 °C to 30 °C.

ORDERING INFORMATION

MAX-710B-XX-XX-XX-XX-XX-XX

Model

M1 = Last-mile OTDR, 1310/1550 nm (9/125 μm)

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
 EA-EUI-98 = APC/LC
 EI-connectors = See note below

OTDR software options

OTDR = Enables OTDR application only

Software options

00 = Without any software option
 SRC = Source through OTDR port

Connector adapter^a

FOA-12 = Biconic
 FOA-14 = NEC D4: PC, SPC, UPC
 FOA-16 = SMA/905, SMA-906
 FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
 FOA-28 = DIN 47256, DIN 47256/APC
 FOA-32 = ST: ST/PC, ST/SPC, ST/UPC
 FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
 FOA-78 = Radiall EC
 FOA-96B = E-2000/APC
 FOA-98 = LC
 FOA-99 = MU

Power meter

00 = Without power meter
 PM2X = Power meter; GeX detector
 VPM2X = VFL and power meter; GeX detector

Example: MAX-710B-M1-EA-EUI-91-0i-VPM2X-FOA-22-SRC

Note

a. If power meter is selected.

EI CONNECTORS



To maximize the performance of your OTDR, EXFO recommends using APC connectors. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly in dead zones. APC connectors provide better performance than UPC connectors, thereby improving testing efficiency.

Note: UPC connectors are also available. Simply replace EA-XX by EI-XX in the ordering part number. Additional connectors available are the EI-EUI-76 (UPC/HMS-10/AG) and EI-EUI-90 (UPC/ST).

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