

MaxTester 720B Access OTDR

OPTIMIZED FOR SHORT POINT-TO-POINT (P2P) CONSTRUCTION



iOLM
READY

Fully featured, entry-level, dedicated OTDR with tablet-inspired design perfect for everyday field-testing in any singlemode access network construction.

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 0.8 m, ADZ 3.5 m

Dynamic range: 36/34 dB

Rugged design built for outside plant

iOLM-ready: intelligent and dynamic application that turns complex OTDR trace analysis into a one-touch task

APPLICATIONS

Access network construction

Private networks

Central office (CO) link certification

COMPLEMENTARY PRODUCTS AND OPTIONS



Data Post-Processing Software
FastReporter 2



Soft Pulse Suppressor Bag
SPSB

EXFO

THE HANDHELD OTDR... REINVENTED.

The MAX-700B series is the first tablet-inspired OTDR line 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 Windows-like GUI ensures a fast learning curve. Plus, its new and improved OTDR2.0 environment offers icon-based functions, instant boot-up, automatic macrobend finders as well as improved auto and real-time modes.

The Max-700B series is a line of genuine high-performance OTDRs from the world's leading manufacturer. It delivers EXFO's tried and true OTDR quality and accuracy along with the best optical performance for right-first-time results, every time.

The amazing 12-hour battery life will never let a technician down, and the plug-and-play hardware options, like the VFL, power meter and USB tools, make every technician's job easier.

Most importantly, the Max-700B series is finally bringing the iOLM, an intelligent OTDR-based application, to the handheld market. This advanced software turns even the most complex trace analysis into a simple, one-touch task.

Ultimately, the Max-700B series is small enough to fit in your hand and big enough to fit all your needs!

THE PORTAL SOLUTION DESIGNED FOR ALL YOUR TESTING NEEDS

The MAX-720B OTDR/iOLM features a dynamic range of 36 dB and 0.8-3.5 m dead zones. This ensures the efficient testing of closely spaced events, such as patchords and patch panels in COs. It is also optimized for the point-to-point testing of any access network.

Other models available :

- › MAX-715B Last-mile for FTTx drop-cable installation and troubleshooting (30 dB)
- › MAX-730B FTTH/PON installation and maintenance for testing through optical splitters and short P2P metro (39 dB)

REMOVING THE COMPLEXITY FROM THE OTDR

iOLM | intelligent Optical Link Mapper

Launch multiple OTDR acquisitions



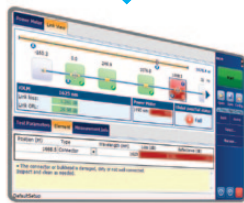
Analyze the traces



Compound the results



Display a schematic link view and prompt diagnosis



US patent 6,612,750

Using a unique and patented automated multipulse and multi-wavelength acquisition approach, the field-proven iOLM surpasses the traditional OTDR and linear view for expert-level link characterization of any fiber network.

This dynamic OTDR-based application uses EXFO's most advanced algorithms to deliver detailed information and maximum resolution on every element of the link. Thanks to its unmatched intelligence and simplicity, the iOLM converts complex OTDR tests into clear and accurate go/no-go results, through a single button operation.

- › Hardware optimized and intelligent software for maximum performance
- › Multiple acquisitions, multiple wavelengths with one button—all automated
- › Expert-level characterization results in a single, comprehensive report
- › The fastest and hassle-free way to perform full fiber characterization
- › No training required: self-setting device with clear go/no-go results
- › Minimized truck rolls, thanks to the smartest analysis, powered by Link-Aware™ technology

Powered by
LINK-AWARE™
TECHNOLOGY

Three ways to benefit from the iOLM:

OTDR combo (Oi code)

Run iOLM and OTDR applications on one unit

Upgrade

Add iOLM software option, even while in the field

iOLM only

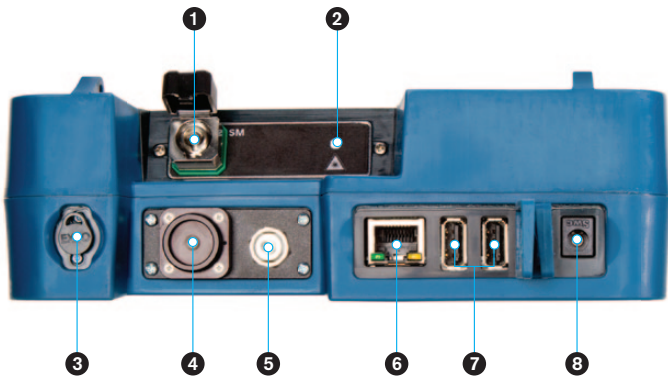
Order a unit with the iOLM application only

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 remote control the unit via 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.
Bluetooth file sharing	Share files between your MaxTester and any Bluetooth-enabled device.
Wi-Fi connection	Upload test results and browse the internet.

PACKAGED FOR EFFICIENCY

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| <ul style="list-style-type: none"> ❶ Singlemode OTDR port ❷ Testing LED indicator ❸ Stylus ❹ Power meter ❺ Visual fault locator | <ul style="list-style-type: none"> ❻ 10/100 Mbit/s Ethernet port ❼ Two USB 2.0 ports ❽ AC adapter ❾ Home/switch application and screen capture (hold) ❿ Power on/off/stand by | <ul style="list-style-type: none"> ⓫ Battery LED status ⓬ Built-in Wi-Fi/Bluetooth |
|--|--|--|



SPECIFICATIONS^a (Preliminary)

TECHNICAL SPECIFICATIONS	MAXTESTER 720B
Display	7 in (178 mm) 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	36/34
Event dead zone (m) ^d	0.8
Attenuation dead zone (m) ^e	3.5
Distance range (km)	0.1 to 260 km
Pulse width (ns)	5 ns to 20 us
Linearity (dB/dB)	±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) ^f	±(0.75 + 0.0025 % 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, for reflectance above -55 dB, using a 5-ns pulse.
- Typical, for reflectance below -55 dB, using a 5-ns pulse. Attenuation dead zone at 1310 nm is 4.5 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 7/8 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)

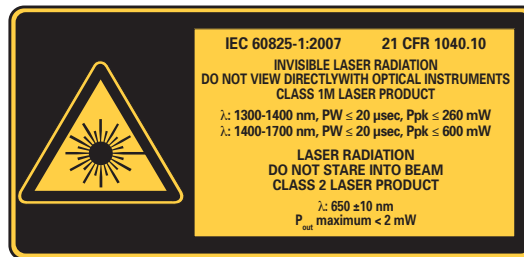
Output power (dBm) ^b	-6
Modulation	CW, 1 kHz, 2 kHz

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
GP-1008	VFL adapter (2.5 mm to 1.25 mm)	GP-2205	DC vehicle battery-charging adaptor (12 V)
GP-2001	USB keyboard	GP-2207	Stand support

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-720B-XX-XX-XX-XX-XX-XX-XX

Model

M1 = Access OTDR, 1310/1550 nm (9/125 µm)

Connectivity

RF = With RF capability (Wi-Fi and Bluetooth)

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
 iOLM = Enables the iOLM application only
 Oi = Enables OTDR and iOLM applications

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-720B-M1-EA-EUI-91-Oi-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.

For best results, APC connectors are mandatory with the iOLM application.

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).

4TECT

ООО «4TECT»

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