MaxTester 715B 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

Tamper-proof password protection

Dead zones: EDZ 1 m, ADZ 4 m

Dynamic range of 30/28/28 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

FTTx last-mile installation and troubleshooting

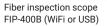
Short access-network testing

FTTA fiber-DAS installations

CATV/HFC network testing

COMPLEMENTARY PRODUCTS AND OPTIONS







Soft pulse suppressor bag SPSB

FastReporter

Advanced data post-processing software FastReporter



THE HANDHELD OTDR. . . REINVENTED.

The MaxTester 700B/C 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 OTDR 2 environment offers icon-based functions, instant boot-up, automatic macrobend finders as well as improved auto and real-time modes.

The MaxTester 700B/C 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 MaxTester 700B/C Series is finally bringing the intelligent Optical Link Mapper (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 MaxTester 700B/C Series is small enough to fit in your hand and big enough to fit all your needs!

THE ENTRY-LEVEL SOLUTION DESIGNED FOR ALL YOUR TESTING NEEDS

The MaxTester 715B OTDR/iOLM 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).

Other models available:

- MaxTester 720C LAN/WAN access OTDR-optimized for multimode and singlemode access network installation and maintenance
- · MaxTester 730C PON/Metro OTDR-optimized for FTTx/MDU and short metro fiber deployments and troubleshooting

SECURE YOUR INVESTMENT AGAINST THEFT

Protected instruments have no value on the black market making them completely unappealing to thieves. With our security management option, administrators can define and load a tamper-proof security profile on the MaxTester, displaying a property message on the home screen and securing it with a user password (permanent or renewable).



LOOKING FOR ICON-BASED MAPPING?

Linear view (included on all EXFO OTDRs)

Available on our OTDRs since 2006, linear view simplifies interpretation of an OTDR trace by displaying icons in a linear way for each wavelength. This view converts the graph data points obtained from a traditional single pulse trace into reflective or non-reflective icons. With applied pass/fail thresholds, it becomes easier to pinpoint faults on your link.



This improved linear view offers you the flexibility to display both the OTDR graph and its linear view without having to perform a toggle to analyze your fiber link.

Although this linear view simplifies OTDR interpretation of a single pulse-width trace, the user must still set the OTDR parameters. In addition, multiple traces must often be performed in order to fully characterize the fiber links. See the section below to learn about how the iOLM can perform this automatically and with more accurate results.

FastReporter

GET THE BEST OUT OF YOUR DATA POST-PROCESSING-ONE SOFTWARE DOES IT ALL

This powerful reporting software is the perfect complement to your OTDR, and can be used to create and customize reports to fully address your needs.







OTDR testing comes with its load of challenges...

iOLM-REMOVING THE COMPLEXITY FROM OTDR TESTING



In response to these challenges, EXFO developed a better way to test fiber optics: The iOLM is an OTDR-based application designed to simplify OTDR testing by eliminating the need to configure parameters, and/or analyze and interpret multiple complex OTDR traces. Its advanced algorithms dynamically define the testing parameters, as well as the number of acquisitions that best fit the network under test. By correlating multipulse widths on multiple wavelengths, the iOLM locates and identifies faults with maximum resolution—all at the push of a single button.



Turning traditional OTDR testing into clear, automated, first-time-right results for technicians of any skill level.

Three ways to benefit from the iOLM



OTDR applications (Oi code)



Add the iOLM software option to your iOLM-ready unit, even while in the field

	1000
iolm only	110 100 100 100 100 100 100 100 100 100

application only

Order a unit with the iOLM

iOLM features value pack and options

In addition to the standard iOLM feature set, you can select added-value features as part of the **Advanced** packages or standalone options. Please refer to the **iOLM specification sheet** for the complete and most recent description of these features.

iOLM Standard

- Dynamic multipulse multiwavelength acquisition
- Intelligent traces analysis and diagnostics
- Single link view and event table
- SOR trace generation
- Single iOLM file per link for easy reporting
- · Optimode: Fast short link

iOLM Advanced (iADV) ^a

- Real-time OTDR
- SOR pulse and wavelength editor
- SOR trace view
- Custom elements
- Advanced link edition and re-analysis
- · Optimode: PON last-mile certification

iLOOP ^a

- iOLM loopback
- iOLM automated bidirectional analysis over TestFlow ^{b, c}

a. Require enabling iOLM standard.

b. Singlemode only, configuration without splitter.

c. Requires TestFlow subscription.



OPTICAL PLUG-AND-PLAY OPTIONS

The MaxTester features plug-and-play optical options that can be purchased whenever you need them: at the time of your order or later on. In either case, installation is a snap, and can be performed by the user without the need for any software update.

Optical power meter

A high-level power meter (GeX) that can measure up to 27 dBm, the highest in the industry. This is essential for hybrid fiber-coaxial (HFC) networks or high-power signals. If used with an auto-lambda/auto-switching compatible light source, the power meter automatically synchronizes on the same wavelength, thus avoiding any risk of mismatched measurement.

- Extensive range of connectors
- · Auto-lambda and auto-switching
- · Offers measurement storage and reporting
- Seven standard calibrated wavelengths

Visual fault locator (VFL)

The plug-and-play VFL easily identifies breaks, bends, faulty connectors and splices, in addition to other causes of signal loss. This basic, yet essential troubleshooting tool should be part of every field technician's toolbox. The VFL visually locates and detects faults over distances of up to 5 km by creating a bright-red glow at the exact location of the fault on singlemode or multimode fibers (available with the Optical Power Meter only).

FIBER CONNECTOR INSPECTION AND CERTIFICATION-THE ESSENTIAL FIRST STEP BEFORE ANY OTDR TESTING

Taking the time to properly inspect a fiber-optic connector using an EXFO fiber inspection scope can prevent a host of issues from arising further down the line, thus saving you time, money and trouble. Moreover, using a fully automated solution with autofocus capabilities will turn this critical inspection phase into a fast and hassle-free one-step process.

Did you know that the connector of your OTDR/iOLM is also critical?

The presence of a dirty connector at an OTDR port or launch cable can negatively impact your test results, and even cause permanent damage during mating. Therefore, it is critical to regularly inspect these connectors to ensure that they are free of any contamination. Making inspection the first step of your OTDR best practices will maximize the performances of your OTDR and your efficiency.





FEATURES	USB WIRED	WIRELESS	AUTONOMOUS
	FIP-430B	FIP-435B	FIP-500
Image capture	•	•	•
Five-megapixel CMOS capturing device	•	•	•
Automatic fiber image-centering function and focus adjustment	•	•	•
Automatic fiber image-focus adjustment	•	•	•
On-board pass/fail analysis	•	•	•
Pass/fail LED indicator	•	•	•
USB connectivity to an EXFO platform or PC	•	•	
Wireless connectivity to an EXFO platform or PC		•	
Wireless connectivity to a smartphone		•	•
Semi-automated multifiber / MPO inspection	•	•	
Fully automated multifiber / MPO inspection			•
On-board touch screen and data storage			•
SmarTips with automated thresholds and quick-connect mechanism			•

For more information, visit <u>www.EXFO.com/fiberinspection</u>.



-Xchange

MANAGE FIELD TESTS. STREAMLINE WORKFLOWS. UNLOCK INSIGHTS.

Interconnect all parts of your field test ecosystem through EXFO Exchange, our open collaborative software platform.





Connect operations with real-time visibility



Increase collaboration and build trust with business partners





Boost efficiency with automated processes



Reduce maintenance costs



Unlock insights to see what matters



From the office

Invite your workforce and contractors to join your organization's workspace on EXFO Exchange. This will help you better organize projects and gain unprecedented visibility in real time over job progress and MoP compliance. Optimize closeout package generation to close jobs rapidly and monetize/get paid faster.



From the field Request an invitation fr

Request an invitation from your team manager to complete jobs faster and better, save results automatically and share them in real time.

KEY FEATURES

Centralized and organized data

Easy integration Consolidated reporting service

Process automation

Collaboration







SOFTWARE UTILITIES	
Software update	Ensure that your MaxTester is up-to-date with the latest software.
VNC configuration	The Virtual Network Computing (VNC) 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.
WiFi connection	WiFi FIP inspection scope interface. Upload test results and browse the Internet.
Inspection scope	USB or WiFi scope to inspect and analyze connectors.
FTP server	Exchange files over WiFi to an FTP application on a smartphone for easier file sharing from the field.
Security management	Tamper-proof security profile with user password (permanent or renewable) and custom property message.

PACKAGED FOR EFFICIENCY





SPECIFICATIONS^a

TECHNICAL SPECIFICATIONS		
Display	7-in (178-mm) outdoor-enhanced touchscreen, 800 × 480 TFT	
Interfaces	Two USB 2.0 ports RJ45 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 ± 30/1550 ± 30/1625 ± 10	
SM live port built-in filter	1625 nm: highpass >1595 nm isolation >50 dB from 1270 nm to 1585 nm	
Dynamic range (dB) °	30/28/28	
Event dead zone (m) ^d	1	
Attenuation dead zone (m) ^e	4	
Distance range (km)	0.1 to 160	
Pulse width (ns)	5 to 20 000	
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) ^f	±(0.75 + 0.005 % × distance + sampling resolution)	
Measurement time	User-defined	
Reflectance accuracy (dB) ^b	±2	
Typical real-time refresh (Hz)	3	

a. All specifications valid at 23 °C \pm 2 °C with an FC/APC connector, unless otherwise specified.

b. Typical.

c. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.

d. Typical, for reflectance from -35 dB to -55 dB, using a 5-ns pulse.

e. Typical, for reflectance at -55 dB, using a 5-ns pulse. Attenuation dead zone at 1310 nm is 5 m typical with reflectance below -45 dB.

f. Does not include uncertainty due to fiber index.



GENERAL SPECIFICATIONS	
Size ($H \times W \times D$)	155 mm × 200 mm × 68 mm (6 ½ in × 7 ½ in × 2 ¼ in)
Weight (with battery)	1.29 kg (2.8 lb)
Temperature Operating Storage	−10 °C to 50 °C (14 °F to 122 °F) −40 °C to 70 °C (−40 °F to 158 °F) °
Relative humidity	0 % to 95 % non-condensing

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

BUILT-IN POWER METER SPECIFICATIONS (GeX) (optional) °		
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 $^{\rm d,f}$	Max power to −30 dBm	
Tone detection (Hz)	270/330/1000/2000	

ACCESSORIES (optional)			
GP-10-061	Soft carrying case	GP-2205	DC vehicle battery-charging adaptor (12 V)
GP-10-072	Semi-rigid carrying case	GP-2207	Kickstand
GP-10-086	Rigid carrying case	GP-2208	Spare stylus
GP-1008	VFL adapter (2.50 mm to 1.25 mm)	GP-2209	Spare battery
GP-2155	Carry-on size backpack	GP-2210	Spare AC/DC adapter (specify country power cord)
GP-2180	Utility glove		

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

a. –20 °C to 60 °C (–4 °F to 140 °F) with the battery pack.

b. Typical output power is given at 1550 nm.

c. At 23 °C ± 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 20-minute warm-up.

- d. Typical.
- e. At calibration conditions.

f. For ± 0.05 dB, from 10 °C to 30 °C.

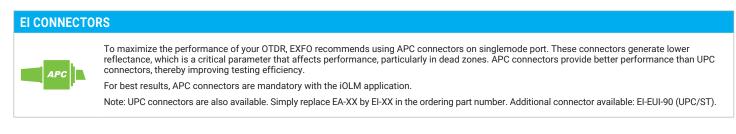
LASER SAFETY (Complies with FDA 1040.10 and IEC 60825-1:2014)





ORDERING INFORMATION

- b. Only available if power meter option is selected. Additional connector adapters available: contact EXFO
- c. Not available in China
- d. This list represents a selection of fiber inspection tips that covers the most common connectors and applications but does not reflect all the tips available. EXFO offers a wide range of inspection tips, bulkhead adaptors and kits to cover many more connector types and different applications. Please contact your local EXFO sales representative or visit www.EXFO.com/FIPtips for more information.
- e. Included when UPC base tips are selected
- f. Included when APC base tips are selected.
- g. Available if inspection scope is selected.
- h. Includes ConnectorMax2 software.
- i. RF option is mandatory and automatically included if FP435B fiber inspection scope model is selected.



EXFO headquarters T +1 418 683-0211 Toll-free +1 800 663-3936 (USA and Canada)

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