## MaxTester 730C PON/metro OTDR

OPTIMIZED FOR FTTx/MDU FIBER DEPLOYMENTS AND TROUBLESHOOTING, SUITABLE FOR METRO









GENERATION

Fully featured, entry-level, dedicated OTDR with tablet-inspired design, suitable for metro and optimized to test through optical splitters, for seamless end-to-end FTTH characterization and troubleshooting.

#### **KEY FEATURES**

Handy, lightweight, powerful, tablet-inspired design

Rugged design built for outside plant

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

12-hour battery life

Dynamic range up to 39 dB for up to 132 km point-to-point (P2P)

Supports high port count PON splitters (up to 1x128)

Live fiber testing at 1625 nm or 1650 nm

Short dead zones: event dead zone (EDZ) = 0.5 m; attenuation dead zone (ADZ) = 2.5 m; PON dead zone = 30 m Single port for in-service troubleshooting with in-line 1490/1550 nm PON power meter (optional)

iOLM-ready: one-touch multiple acquisitions, with clear go/no-go results presented in a straightforward visual format

### **APPLICATIONS**

FTTx/PON testing through splitters

Access network testing (P2P)

Metro links testing (P2P)

Live fiber troubleshooting

Passive optical LAN (POL)

### COMPLEMENTARY PRODUCTS AND OPTIONS



Fiber inspection probe

FIP-400B (WiFi or USB)

FastReporter

Data post-processing software FastReporter 3



Soft pulse suppressor bag SPSB



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### 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 730C PON/metro OTDR is optimized to test through optical splitters up to 1x128, ensuring complete end-to-end FTTH characterization. The 1625-nm or 1650-nm, out-of-band, live testing port enables the efficient troubleshooting of active networks without affecting the signal of other clients. Plus, the high dynamic range makes it suitable for metro point-to-point testing.

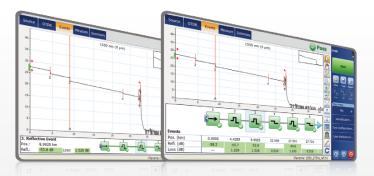
Other models available:

- · MaxTester 715B short access and FTTx last-mile installation and troubleshooting
- · MaxTester 720C LAN/WAN access OTDR-optimized for multimode and singlemode access network construction and troubleshooting

### LOOKING FOR ICON-BASED MAPPING?

#### Linear view (included on all EXFO OTDRs)

Available on our OTDRs since 2006, the linear view simplifies the reading 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, non-reflective or splitter icons. With applied pass/fail thresholds, it becomes easier to pinpoint faults on your link.



This improved version of linear view provides the flexibility to display both the OTDR graph and its linear view without having to toggle to analyze your fiber link.

Although this linear view simplifies the OTDR reading of a single pulse width's trace, the user will still need to set OTDR parameters. In addition, multiple traces must often be performed in order to fully characterize fiber links. See the section below to learn how iOLM can do this automatically and provide more accurate results.



### **IOLM—REMOVING THE COMPLEXITY FROM OTDR TESTING**

# OTDR TESTING COMES WITH ITS SHARE OF CHALLENGES. . .











intelligent Optical Link Mapper In response to these challenges, EXFO developed a better way to test fiber optics: intelligent Optical Link Mapper (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, iOLM locates and identifies faults with maximum resolution—all at the push of a single button.

### **HOW DOES IT WORK?**

Dynamic multipulse acquisition



Intelligent trace analysis



All results combined into a single link view



Comprehensive diagnosis



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

### THREE WAYS TO BENEFIT FROM IOLM



Run both iOLM and OTDR applications (Oi code)

**UPGRADE** 



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

**iOLM ONLY** 



Order a unit with the iOLM application only

### **IOLM FEATURES VALUE PACK**

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

### GET THE BEST OUT OF YOUR DATA POST-PROCESSING—THE SOFTWARE THAT DOES IT ALL

### FastReporter

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.



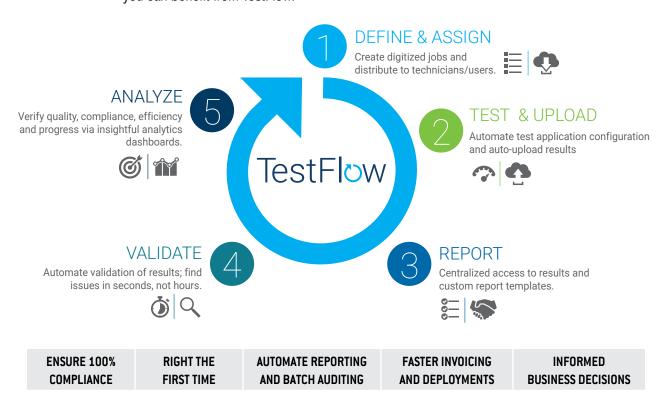


### TestFlow

## CLOUD-BASED FIELD TEST MANAGEMENT— GET MORE FROM FastReporter WITH TestFlow

### The TestFlow process

Whether you are a field technician, a site lead or a project manager, you can benefit from TestFlow.



Get your free trial today or for more info: **EXFO.com/TestFlow** 



### 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

EXFO's high-level power meter (GeX) 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

Properly inspecting a fiber-optic connector using an EXFO fiber inspection probe can prevent a host of issues from arising later, 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?

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.

### ConnectorMax



### Five models to fit your budget

FEATURES	USB WIRED			WIRELESS	
	Basic FIP-410B	Semi-automated FIP-420B	Fully automated FIP-430B	Semi-automated FIP-425B	Fully automated FIP-435B
Three magnification levels	√	√	√	√	√
Image capture	√	√	√	√	√
Five-megapixel CMOS capturing device	√	√	√	√	√
Automatic fiber image-centering function	X	√	√	√	√
Automatic focus adjustment	X	X	√	X	√
Onboard pass/fail analysis	X	√	√	√	√
Pass/fail LED indicator	X	√	√	√	√
WiFi connectivity	X	X	X	√	√

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



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.
WiFi connection	WiFi FIP inspection probe interface. Upload test results and browse the Internet.
Inspection probe	USB or WiFi probe 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

### PACKAGED FOR EFFICIENCY

Singlemode OTDR port

6 10/100 Mbit/s Ethernet port

2 Singlemode Live OTDR port

7 Two USB 2.0 ports

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8 AC adapter

Home/switch application and screen capture (hold)

5 Visual fault locator

3 Stylus

4 Power meter

Power on/off/stand by

Battery LED status

Built-in WiFi/Bluetooth

Stand support











### **SPECIFICATIONS** a

Position   Principle   Prin		the state of the s		
Two USB 2.0 ports   RJ45 LAN 10/100 Mbit/s	TECHNICAL SPECIFICATIONS			
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 (Belicore) TR-NWT-001138     Power supply   Power supply AC//DC adapter, input 100-240 VAC, 50-60 Hz     Wavelength (nm)	Display	7-in (178-mm) outdoor-enhanced touchscreen, 800 x 480 TFT		
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 Wavelength (nm) b 1310 ± 20/1550 ± 20/1625 ± 10/1650 ± 5  1625 nm: highpass > 1595 nm isolation > 50 dB from 1270 nm to 1585 nm 1650 nm: bandpass 1650 nm ± 7 nm isolation > 50 dB out of 1650 nm ± 10 nm  Dynamic range (dB) c 39/38/39/39  Event dead zone (m) d 0.5  Attenuation dead zone (m) v 2.5  PON dead zone (m) v 30  Distance range (km) 0.1 to 400  Pulse width (ns) 3 to 20 000  Linearity (dB/dB) ± 0.03  Loss threshold (dB) 0.01  Loss resolution (dB) 0.001  Sampling resolution (m) 0.04 to 10  Sampling points Up to 256 000  Distance uncertainty (m) s ± (0.75 + 0.0025 % x distance + sampling resolution)  Measurement time Reflectance accuracy (dB) b ±2	Interfaces			
### Power supply Power supply Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz  ### Wavelength (nm) b	Storage	2 GB internal memory (20 000 OTDR traces, typical)		
Wavelength (nm) b       1310 ± 20/1550 ± 20/1625 ± 10/1650 ± 5         1625 nm: highpass >1595 nm isolation >50 dB from 1270 nm to 1585 nm         1650 nm: bandpass 1650 nm ± 7 nm isolation >50 dB out of 1650 nm ± 10 nm         Dynamic range (dB) c       39/38/39/39         Event dead zone (m) d       0.5         Attenuation dead zone (m) f       30         PON dead zone (m) f       30         Distance range (km)       0.1 to 400         Pulse width (ns)       3 to 20 000         Linearity (dB/dB)       ±0.03         Loss threshold (dB)       0.001         Sampling resolution (m)       0.04 to 10         Sampling points       Up to 256 000         Distance uncertainty (m) g       ±(0.75 + 0.0025 % x distance + sampling resolution)         Measurement time       User-defined         Reflectance accuracy (dB) b       ±2	Batteries			
1625 nm: highpass > 1595 nm isolation > 50 dB from 1270 nm to 1585 nm isolation > 50 dB from 1270 nm to 1585 nm 1650 nm: bandpass 1650 nm ± 7 nm isolation > 50 dB out of 1650 nm ± 10 nm 100 nm 10	Power supply	Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz		
SM live port built-in filter  1650 nm: bandpass 1650 nm ± 7 nm isolation >50 dB from 1270 nm to 1585 nm  1650 nm: bandpass 1650 nm ± 10 nm  Dynamic range (dB) ° 39/38/39/39  Event dead zone (m) d 0.5  Attenuation dead zone (m) ° 2.5  PON dead zone (m) f 30  Distance range (km) 0.1 to 400  Pulse width (ns) 3 to 20 000  Linearity (dB/dB) ±0.03  Loss threshold (dB) 0.01  Loss resolution (dB) 0.001  Sampling resolution (m) 0.04 to 10  Sampling points Up to 256 000  Distance uncertainty (m) g ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time Reflectance accuracy (dB) b ±2	Wavelength (nm) <sup>b</sup>	$1310 \pm 20/1550 \pm 20/1625 \pm 10/1650 \pm 5$		
1650 nm: bandpass 1650 nm ± 7 nm isolation >50 dB out of 1650 nm ± 10 nm	CAAT a seed to the Char			
Event dead zone (m) d	Sivi live port built-in liller			
Attenuation dead zone (m) ° 2.5  PON dead zone (m) 1 30  Distance range (km) 0.1 to 400  Pulse width (ns) 3 to 20 000  Linearity (dB/dB) ±0.03  Loss threshold (dB) 0.01  Loss resolution (dB) 0.001  Sampling resolution (m) 0.04 to 10  Sampling points Up to 256 000  Distance uncertainty (m) 9 ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time User-defined  Reflectance accuracy (dB) b ±2	Dynamic range (dB) °	39/38/39/39		
PON dead zone (m) f         30           Distance range (km)         0.1 to 400           Pulse width (ns)         3 to 20 000           Linearity (dB/dB)         ±0.03           Loss threshold (dB)         0.01           Loss resolution (dB)         0.001           Sampling resolution (m)         0.04 to 10           Sampling points         Up to 256 000           Distance uncertainty (m) g         ±(0.75 + 0.0025 % x distance + sampling resolution)           Measurement time         User-defined           Reflectance accuracy (dB) b         ±2	Event dead zone (m) d	0.5		
Distance range (km)  O.1 to 400  Pulse width (ns)  3 to 20 000  Linearity (dB/dB)  ±0.03  Loss threshold (dB)  O.01  Loss resolution (dB)  Sampling resolution (m)  Sampling points  Up to 256 000  Distance uncertainty (m) g  ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time  User-defined  Reflectance accuracy (dB) b  ±2	Attenuation dead zone (m) <sup>e</sup>	2.5		
Pulse width (ns) 3 to 20 000  Linearity (dB/dB) ±0.03  Loss threshold (dB) 0.01  Loss resolution (dB) 0.001  Sampling resolution (m) 0.04 to 10  Sampling points Up to 256 000  Distance uncertainty (m) g ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time User-defined  Reflectance accuracy (dB) b ±2	PON dead zone (m) <sup>f</sup>	30		
Linearity (dB/dB) ±0.03  Loss threshold (dB) 0.01  Loss resolution (dB) 0.001  Sampling resolution (m) 0.04 to 10  Sampling points Up to 256 000  Distance uncertainty (m) g ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time User-defined  Reflectance accuracy (dB) b ±2	Distance range (km)	0.1 to 400		
Loss threshold (dB)  Loss resolution (dB)  Sampling resolution (m)  Sampling points  Up to 256 000  Distance uncertainty (m) g  ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time  User-defined  Reflectance accuracy (dB) b  ±2	Pulse width (ns)	3 to 20 000		
Loss resolution (dB)  Sampling resolution (m)  Out to 10  Sampling points  Up to 256 000  Distance uncertainty (m) 9  ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time  User-defined  Reflectance accuracy (dB) b  ±2	Linearity (dB/dB)	±0.03		
Sampling resolution (m)  O.04 to 10  Sampling points  Up to 256 000  ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time  User-defined  Reflectance accuracy (dB) b  ±2	Loss threshold (dB)	0.01		
Sampling points  Up to 256 000  Distance uncertainty (m) g	Loss resolution (dB)	0.001		
Distance uncertainty (m) <sup>g</sup> ±(0.75 + 0.0025 % x distance + sampling resolution)  Measurement time  User-defined  Reflectance accuracy (dB) <sup>b</sup> ±2	Sampling resolution (m)	0.04 to 10		
Measurement time User-defined  Reflectance accuracy (dB) b ±2	Sampling points	Up to 256 000		
Reflectance accuracy (dB) b ±2	Distance uncertainty (m) <sup>g</sup>	±(0.75 + 0.0025 % x distance + sampling resolution)		
	Measurement time	User-defined		
Typical real-time refresh (Hz) 4	Reflectance accuracy (dB) <sup>b</sup>	±2		
	Typical real-time refresh (Hz)	4		

TECHNICAL SPECIFICATIONS (In-line power meter) b, h			
Input power range (dBm)	1490 nm: -65 to 18 1550 or 1577 nm: -50 to 28		
PON power meter (nm)	Two channels: 1490/1550		
Broadband power meter (nm)	One channel: 1270 to 1625		
Power uncertainty (dB) <sup>a</sup>	±0.2		
Calibrated wavelengths (nm)	1310, 1490, 1550 and 1625		
PON power meter spectral band (nm)	1450 to 1530		
Broadband power meter spectral band (nm)	1270 to 1625		
PON power meter selectable wavelengths (nm)	1490, 1550, 1490/1550		
Broadband power meter selectable wavelengths (nm)	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1577, 1590, 1610,1625		
Display resolution (dB)	0.1		
PON power meter ORL (dB) <sup>a</sup>	-55		
Broadband power meter ORL (dB) <sup>a</sup>	-50		

- 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  $\ensuremath{\mathsf{SNR}}=1.$
- d. Typical, for reflectance from  $-35~\mathrm{dB}$  to  $-55~\mathrm{dB}$ , using a 3-ns pulse.
- e. Typical, for reflectance at -55 dB (at 1310 nm), using a 3-ns pulse. Attenuation dead zone at 1310 nm is 3.5 m typical with reflectance below -45 dB.
- f. Non-reflective FUT, non-reflective splitter, 13-dB loss, 50-ns pulse, typical value.
- g. Does not include uncertainty due to fiber index.
- h. Specifications valid when OTDR not functioning or in idle mode.



GENERAL SPECIFICATIONS	
Size (H x W x D)	166 mm x 200 mm x 68 mm (6 % in x 7 % in x 2 % in)
Weight (with battery)	1.5 kg (3.3 lb)
Temperature Operating Storage	-10 °C to 50 °C (14 °F to 122 °F) -40 °C to 70 °C (-40 °F to 158 °F) <sup>a</sup>
Relative humidity	0 % to 95 % non-condensing

SOURCE	
Output power (dBm) <sup>b</sup>	-2.5
Modulation	CW, 330 Hz, 1 kHz, 2 kHz, 1 kHz + blink, 2 kHz + blink

BUILT-IN POWER METER SPECIFICA	TIONS (GeX) (optional)°
Calibrated wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm) d	27 to -50
Uncertainty (%) e	$\pm 5 \% \pm 10 \text{ nW}$
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 −30 dBm
Tone detection (Hz)	270/330/1000/2000

### VISUAL FAULT LOCATOR (VFL) (optional)

Laser, 650 nm  $\pm$  10 nm

CW/Modulate 1 Hz

Typical P<sub>out</sub> in 62.5/125  $\mu$ m: > -1.5 dBm (0.7 mW)

Laser safety: Class 2

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

With VFL:



LASER 2



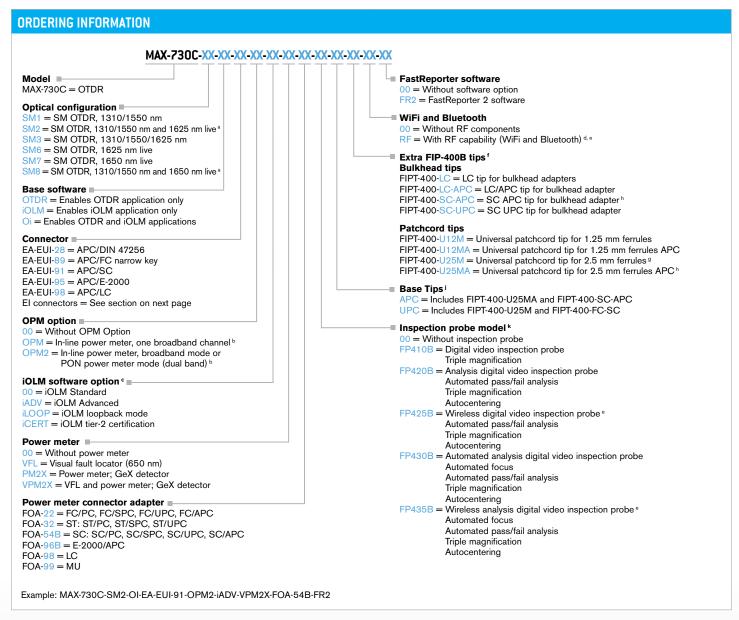
↑ ATTENTION
↑ CAUTION

LASER
1M

ACCESSORIES (optional)			
GP-10-061	Soft carrying case	GP-2208	Spare stylus
GP-10-072	Semi-rigid carrying case	GP-2209	Spare battery
GP-10-100	Rigid carrying case	GP-2240	Utility glove
GP-1008	VFL adapter (2.50 mm to 1.25 mm)	GP-2242	Replacement hand strap
GP-2155	Carry-on size backpack	GP-2243	Spare AC/DC adapter (specify country power cord)
GP-2205	DC vehicle battery-charging adaptor (12 V)	GP-3115	Kickstand

- a.  $-20~^{\circ}\text{C}$  to 60  $^{\circ}\text{C}$  (–4  $^{\circ}\text{F}$  to 140  $^{\circ}\text{F}) with the battery pack.$
- b. Typical output power is given at 1550 nm.
- c. At 23 °C  $\pm$  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  $\pm 0.05$  dB, from 10 °C to 30 °C.





- a. The two ports are configured with the same adapter.
- b. Available with SM2/SM6/SM7 and SM8 models
- c. Please refer to the iOLM specification sheet for the complete and most recent description of these value packs.
- d. Not available in China
- e. Included with FP425B and FP435B probe options.
- f. 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 <a href="https://www.EXFO.com/FIPtips">www.EXFO.com/FIPtips</a> for more information.
- g. Included when UPC base tips are selected.
- h. Included when APC base tips are selected.

  i. Includes a bulkhead adapter for patch cord inspection.
- j. Available if inspection probe is selected.
- k. Includes ConnectorMax2 software.



### **EI CONNECTORS**



To maximize the performance of your OTDR, EXFO recommends using APC connectors on singlemode port. 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 connector available: EI-EUI-90 (UPC/ST).

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EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

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For the most recent version of this spec sheet, please go to www.EXFO.com/specs.

In case of discrepancy, the web version takes precedence over any printed literature.

