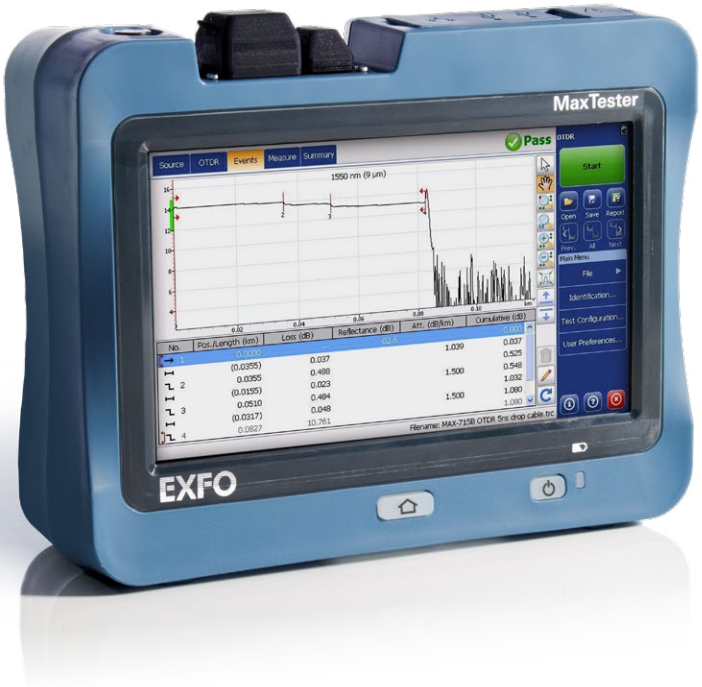
SPEC SHEET

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.

FROST & SULLIVAN
2014 BEST PRACTICES AWARD
GLOBAL PORTABLE FIBER OPTIC TEST EQUIPMENT MARKET LEADERSHIP AWARD

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

Fiber inspection scope
FIP-400B

FastReporter

Advanced data post-processing software
FastReporter

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 (VNC) 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

FIBER CONNECTOR INSPECTION AND CERTIFICATION—THE ESSENTIAL FIRST STEP

100%
automated [a]

1-step
process [a]

57%
shorter test time [b]

Taking the time to properly inspect a fiber-optic cable can prevent a slew of problems down the line–saving you time, money and headaches.

FIP-430B | The first fully automated fiber inspection probe for the field
Housing a unique automatic focus adjustment system, the FIP-430B automates each operation in the connector endface inspection sequence, transforming this critical process into one quick and easy step that can be performed by technicians of all skill levels.

Three models to fit your budget

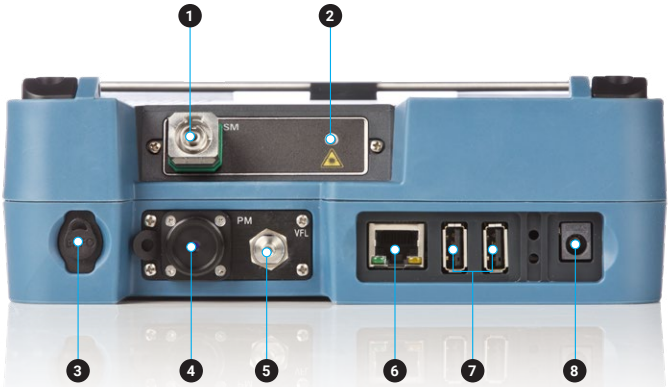
FEATURES	Basic **FIP-410B**	Semi-automated **FIP-420B**	Fully automated **FIP-430B**
Three magnification levels	•	•	•
Image capture	•	•	•
Five-megapixel CMOS capturing device	•	•	•
Automatic fiber image-centering function		•	•
Automatic focus adjustment			•
Onboard pass/fail analysis		•	•
Pass/fail LED indicator		•	•

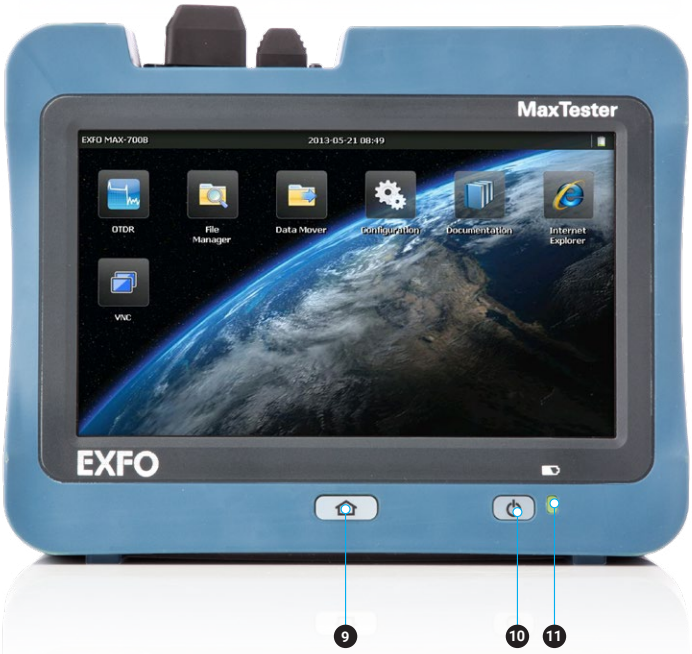
Read the **FIP-400B specification sheet** or visit **EXFO.com/keepthefocus** for more information.

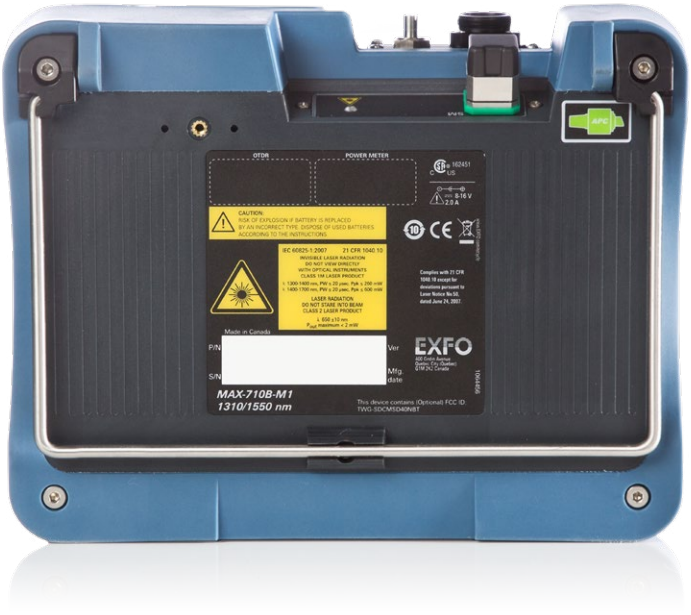
a. Model FIP-430B only
b. Data sourced from EXFO`s case study, with calculation based on typical analysis time.

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	
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
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) [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

a. All specifications valid at 23 °C ± 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 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.
e. 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 ¾ in)
Weight (with battery)		1.3 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) [a]
Relative humidity		0 % to 95 % non-condensing

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 (optional)

GP-10-072	Semi-rigid carrying case	GP-2016	10-foot RJ-45 LAN cable
GP-10-086	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		

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.

ORDERING INFORMATION

MAX-710B-XX-XX-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

Inspection probe base tips[b]
APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC
UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Inspection probe model[c]
FP410B = Digital video inspection probe
Triple magnification
FP420B = Analysis digital video inspection probe[b]
Automated pass/fail analysis
Triple magnification
Autocentering
FP430B = Automated analysis digital video inspection probe[b]
Automated focus
Automated pass/fail analysis
Triple magnification
Autocentering

Example: MAX-710B-M1-EA-EUI-91-FP430B-APC-VPM2X-FOA-22-SRC

a. If power meter is selected.
b. Available if inspection probe is selected.
c. Includes ConnectorMax2.

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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