FTB-730-iOLM Intelligent Optical Link Mapper
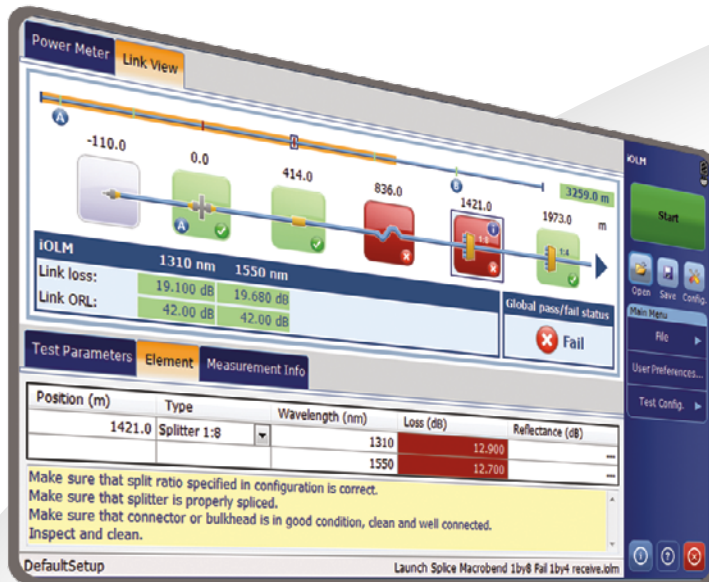
AUTOMATED AND ACCURATE EXPERT-LEVEL FIBER TESTING

POWERED BY

LINK AWARE™
TECHNOLOGY

Using an automated multipulse acquisition approach and advanced algorithms, the iOLM is an OTDR-based application that delivers detailed information on every element on the link, in a single button operation—providing maximum intelligence and simplicity for expert-level link characterization.

APPLICATIONS

FTTx/MDU test challenges within PON networks

Point-to-point (P2P) access network testing

Metro/core network testing

PLATFORM COMPATIBILITY

FTB-1
One-module platform for dedicated applications

The FTB-730 module has been optimized to support the iOLM application. The iOLM is offered as a stand-alone application or as a field-upgradable software option with the OTDR application.

REVOLUTIONIZING SINGLE-ENDED FTTH/MDU DEPLOYMENT TESTING

Link-Aware™ Technology

Let it optimize the test run

With one click, the unit automatically performs link recognition, sets the optimal parameters and launches multiple acquisitions and multiple analyses—at multiple wavelengths—consolidating the results obtained for every link section and every network element. Get accurate information right away on each link element and export it to a single report.

Self-Setting Unit

Let it be the expert

Powered by Link-Aware technology, the iOLM self-manages the setting of all test parameters—ready-to-use intelligence that dramatically shortens the learning curve. Minimize training, avoid test misconfiguration, and facilitate your technicians' transition from copper to fiber.
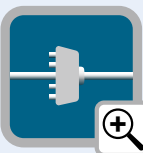
Optical Link View

Let it crunch the data

Leaving behind complex OTDR traces, the simplified link mapper provides a straightforward view of the fiber under test, with clear icons and pass/fail verdicts. Get actual results: end-to-end visual assessment of your link, complete with event characterization and fiber status.

Prompt Diagnosis

Let it show you the way

Loaded with countless algorithms and a database of potential network failures, the iOLM guides you through your network's problem-solving process. Say goodbye to trace misinterpretation, and ensure that all your technicians—not just your most experienced ones—can efficiently fix network issues right on the spot.

In-Line Optical Power Meter

Let it fast-track troubleshooting

Connect, check power readings, get a link map and find the fault—all in one click and without disconnecting the fiber. Gear up for lightning-fast troubleshooting.

Mandatory: Angled-Polished (APC) Connectors

Like any OTDR, the iOLM will be impacted by strong reflections at the unit's port. To ensure low reflections and maintain measurement accuracy, the iOLM must be used with APC connectors. Another advantage of using APC connectors is their ability to handle harsher conditions without becoming highly reflective while maintaining the unit's performance.

In the case of UPC connectors, they are prone to be highly reflective if contaminated, worn or damaged. This will affect the measurement and will lead to premature connector replacement. Although testing a UPC network does not require a UPC unit, using an APC/UPC test jumper (included with the iOLM) or a launch fiber (SPSB) ensures compatibility.

Recommended Test Method

EXFO recommends using a 150-meter launch cable (SPSB) to exclude the loss of the iOLM's connector or to allow UPC network testing. It will also extend the instrument's connector life by reducing the number of matings—ultimately improving the cost of ownership.

GENERAL SPECIFICATIONS

Module	FTB-730
Size (H x W x D)	130 mm x 36 mm x 252 mm (5 $^1/_8$ in x 1 $^7/_{16}$ in x 9 $^{15}/_{16}$ in)
Weight	0.65 kg (1.4 lb)

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007
CLASS 1M WITHOUT VFL OPTION
CLASS 3R WITH VFL OPTION

IEC 60825-1:2007   21 CFR 1040.10
INVISIBLE LASER RADIATION
DO NOT VIEW DIRECTLY
WITH OPTICAL INSTRUMENTS
CLASS 1M LASER PRODUCT
λ: 800-1200 nm, PW ≤ 1 µsec, Ppk ≤ 500 mW
λ: 1200-1400 nm, PW ≤ 20 µsec, Ppk ≤ 250 mW
λ: 1200-1700 nm, PW ≤ 20 µsec, Ppk ≤ 500 mW
QST 572

IEC 60825-1:2007
21 CFR 1040.10
VISIBLE LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT
λ: 650 ±10 nm
P_{out} maximum < 5mW (into free space)

ORDERING INFORMATION

SINGLEMODE (PON FTTx/MDU) OTDR FOR FTB-1 PLATFORM

FTB-730-XX-XX-XX-XX-XX

Model

Dual-Wavelength
FTB-730-23B = SM OTDR module, 1310/1550 nm (9/125 µm)
FTB-730-34B = SM OTDR module, 1550/1625 nm (9/125 µm)

Triple-Wavelength
FTB-730-236B = SM OTDR module, 1310/1490/1550 nm (9/125 µm)

SM Live Port
FTB-730-23B-04B = SM and SM live OTDR module,
1310/1550 and 1625 nm live port
including in-line broadband power meter
FTB-730-000-04B = SM live OTDR with 1625 nm live port (9/125 µm)
including in-line broadband power meter
FTB-730-000-08B = SM live OTDR with 1650 nm live filtered
port (9/125 µm)

Example: FTB-730-023B-04B-OPM-iOLM-EA-EUI-89

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

Base Software [a]
iOLM = Enables the iOLM application only
Oi = Enables iOLM + OTDR applications

OPM Option [b]
OPM = One broadband channel included
OPM2 = Dual channel 1490/1550 nm

Software Options [c]
00 = Without software option,
OTDR application
AD = Automatic diagnosis
(macrobend detection,
pass/fail and fault finder)
and linear view
EC = Event characterization
(bidirectional analysis and
Template mode)

SPSB-XX-XX

Model

Dual-Wavelength
SPSB-B-150 = Soft pulse suppressor bag,
singlemode fiber 9/125 µm, 150 m

Example: SPSB-B-150-58-101

Connector
58 = FC/APC narrow key
88 = SC/APC narrow key
89 = FC/UPC
90 = ST/UPC
91 = SC/UPC
95 = E2000/UPC
96 = E2000/APC
101 = LC/UPC [d]
104 = LC/APC [d]

Notes

a. 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 dead zones. APC connectors provide better performances than UPC connectors, thereby improving testing efficiency. UPC connectors are also available, simply replace EA-XX by EI-XX in the ordering part number.

b. Available only with FTB-730-000-04B and FTB-730-23B-04B.

c. Only available with OTDR base software.

d. LC connectors are not available for first connector.

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