GO BEYOND OTDR
LEAVE NO FAULTY NETWORK BEHIND

iOLM | intelligent Optical Link Mapper

Powered by
LINK AWARE ™
TECHNOLOGY

EXFO

Helping you face rising FTTH challenges

70 million homes

Ever-increasing bandwidth demand and flattening revenues are forcing network service providers to go ahead with fast, widespread deployment of FTTH links. And with over **70 million homes to connect until 2014**, challenges arise—namely, massive hiring of new technicians, and migration of more technicians with a copper background to common fiber testing duties. This new market reality raises cost issues that directly impact OPEX.

Massive hiring: the impacts

The salary of an intermediate I&M technician is $56k a year.

| Mercer Limited, United States, March 1, 2010

> Insufficient experience

> Training investments

> Turn-up failures

> Erroneous fiber characterization

The average cost of a truck roll is $100-250/hour.

| EXFO survey with its customer base

OPEX cutback is priority no. 1

Providing an effective means of...

↑ **Enhancing** fiber characterization with more fault finding	↓ **Minimizing** repeat truck rolls	↓ **Minimizing** labor and training costs

This is the iOLM's pledge to you.

intelligent Optical Link Mapper

Ingenious, automated, and built for dependable FTTx testing.

[New] is out, here's [next].

It's more

It's more than just a new single-ended fiber-optic tester.
More than a merely better, **more advanced** OTDR.
Or yet **another way** to improve an existing test procedure.
What it does is **make you rethink fiber-optic field testing**.

It's much more than new.
It's the next evolution of OTDR technology.

One-touch, A-to-Z fiber characterization,

without you having to analyze and interpret multiple, complex OTDR traces?
It's no wishful thinking. It's the iOLM.

Expedite the migration from copper to fiber testing

No training required: self-setting device

Avoid repeat truck rolls

With Link-Aware™, the smartest analysis technology, and consolidated results

Optimize fiber deployment

No more trace misinterpretation: prompt diagnosis and clear schematic link view

iOLM | intelligent Optical Link Mapper

EXFO's **iOLM** application lets you take advantage of the **full power of your OTDR** during FTTx network construction. Thanks to automated settings and analysis, even the untrained technician can become a test expert in no time.

Featuring patent-pending **Link-Aware™** technology, the iOLM delivers straightforward, no-compromise, fully automated network characterization—helping you avoid repeat truck rolls before service turn-up or during troubleshooting.

Choose a traditional FTTH compromise...

Widely renowned, yet imperfect methods.

Fast and **accurate** results

User-friendly for **entry-level** technicians

Requires **two** technicians and **two** units

Cannot locate the problem on the link—requires another tool

Proven network characterization method

Single-ended instrument with end-to-end view: only one technician and one unit required

Accurate location of faults on the link

Having to **find a middle ground** between short dead zones and high dynamic range

High level of expertise required for manipulating, analyzing and understanding the results

Pros	Cons	Pros	Cons
OLTS		**OTDR**	

...or EXFO's forward-thinking alternative

Automating the process and hiding the complexity behind.

Automatically
launches multiple OTDR acquisitions

Automatically
analyzes the traces

Automatically
compounds the results

Automatically
displays a schematic link view

Combining the advantages of existing test methods, the iOLM does all the hard work—analyzing the traces, processing numerous complex measurements—in seconds and on its own, automatically providing you with a simplified graphical view that is easily understandable and removes any risk of OTDR trace misinterpretation.

Let the iOLM work for you

The intelligent Optical Link Mapper facilitates your test crews' day-to-day fiber-testing tasks. Each of its features addresses one clear purpose: simplifying field operations **to make OPEX shrink**.

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.

OPM 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.

.sor OTDR trace file generation

Let it fit your existing test filing requirements

The iOLM can generate a universal and enhanced Bellcore format (.sor) OTDR trace to comply with your existing reporting and post-processing requirements. This OTDR trace integrates all the additional information gathered by the iOLM, providing more complete results.

17+ years of OTDR expertise has helped EXFO establish itself as the global OTDR leader, with a market share that has now reached **49%**. these ongoing efforts have also enabled EXFO to develop more advanced algorithms that better address the pains voiced by its customers.

After two years of research and close collaboration with major network operators worldwide, we are proud to unveil an instrument that will redefine the way you test fiber in the field.

17 years of OTDR expertise

Are you iOLM-ready?

The iOLM software application is designed for the FTB-1/FTB-720/730 OTDR hardware. Choose from three ways to benefit from it:

1 SOFTWARE
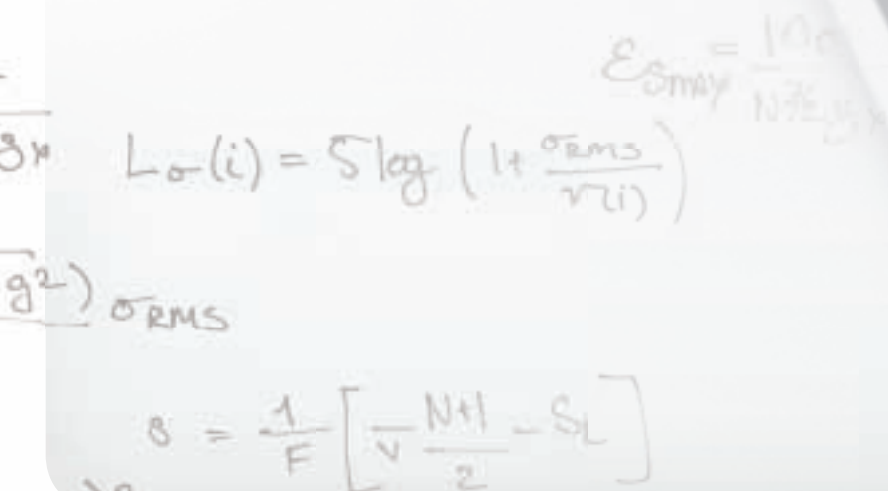FTB-720/730 iOLM application only

2 OTDR COMBO
FTB-720/730 iOLM
+
OTDR application combo

3 UPGRADE
Software option to your current FTB-720/730 OTDR

Field-upgradable

$$\varepsilon_{smay} = \frac{10e}{N}$$

$$L_\sigma(i) = 5\log\left(1 + \frac{\sigma_{RMS}}{\sqrt{2}(i)}\right)$$

$$\sigma_{RMS}$$

$$B = \frac{1}{F}\left[\sqrt{\frac{N+1}{2}} - S_L\right]$$

EXFO.com/GoBeyondOTDR   For a demo: www.EXFO.com/contact

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