PXM (MPO power meter)

LXM (MPO light source)

PXM/LXM

MPO OPTICAL LOSS TEST SET (OLTS)

■ Full-featured MPO-12 power meter and light source with the industry's fastest test speeds.

FASTEST

KEY FEATURES AND BENEFITS

4-inch color touchscreen

Native MPO-12 connector on devices

Leading FasTesT™ performance: test MPO-12 cables at 2 wavelengths in just 1 second

Dual wavelength on light source

Insertion loss measurement

Polarity type validation

In-line visual fault locator (VFL) for fiber tracing on LXM

Comprehensive results combined on one page

APPLICATIONS

Data centers

Central offices

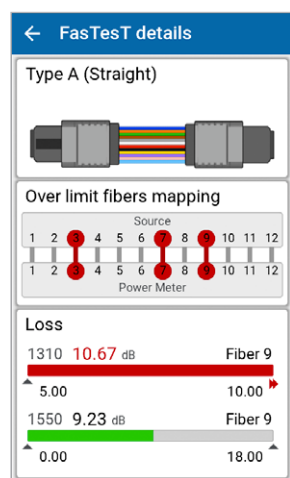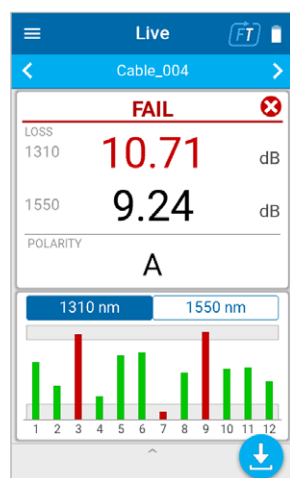Headends

RELATED PRODUCTS

Fiber inspection scope
FIP-500

MPO cleaning kits

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FasTesT™: MPO TESTING MADE SIMPLE AND FAST

The PXM/LXM combo is an MPO tester designed to efficiently qualify a large number of MPO links. It tests MPO-12 cables at 2 wavelengths in just 1 second, the fastest test time in the industry. The FasTesT feature provides loss per channel at the 2 selected wavelengths, as well as the polarity type of the link under test automatically when continuity is detected.
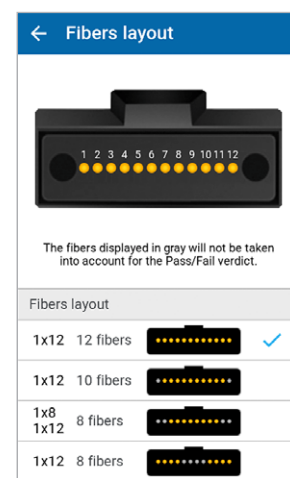
COMPREHENSIVE PASS/FAIL RESULTS COMBINED ON ONE PAGE

• Global pass/fail status and pass/fail per fiber

• Insertion loss per wavelength

• Polarity type (A, B, C or U) with graphical representation

• Pass/fail on actual polarity type versus expected polarity type

• Full details available on FasTesT results and fiber results page

Power meter main screen

FasTesT details

Fiber details

Pass/fail thresholds according to fibers layout selection

IN-LINE VISUAL FAULT LOCATORS

The LXM light source includes a VFL that is in-line on the same port as the MPO source itself. Combining those two features on the same port makes them convenient to use. The VFL can trace a fiber right to the other end of the link so that the technician on the other end can easily find the MPO port to which they need to connect the PXM. The VFL also makes it easy to locate macrobends or breaks in the fiber.

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Hybrid contactless connector

The PXM power meter contains a hybrid contactless connector that can accommodate both APC and UPC connectors, thus supporting multimode and singlemode link testing. This large core detector allows the PXM to give precise measurements with low uncertainty.

FastReporter Reporting

Measurements made by the PXM power meter when measuring either power or loss can be processed in FastReporter post-processing PC software to generate reports.

3-year calibration

Cut costs related to factory returns and downtime.

Field-replaceable batteries

The battery is field-replaceable, so there's no need to send it back to the factory when the battery reaches the end of its lifecycle (counted in years).

Long battery life

The PXM and LXM are powered by lithium-ion rechargeable batteries that can support 8 hours of continuous use.

Smartphone-grade touchscreen

The PXM and LXM have integrated high-quality capacitive color touchscreens designed to be visible in full sun or dark areas, from any angle.

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SPECIFICATIONS

PXM POWER METER SPECIFICATIONS [c]

Input connector	Contactless MPO-12 male (pinned) supporting both APC and UPC. Connector with protective shutter.
Detector type	InGaAs
Power measurement range (dBm)	5 to −45
Power uncertainty (dB) [a]	±0.35
Linearity (dB) [b]	±0.1
Display resolution (dB)	0.01
Wavelength measurement range (nm)	850 to 1550
Calibrated wavelengths (nm)	850, 1300, 1310, 1550
Tone detection	270 Hz, 330 Hz, 1 kHz, 2 kHz
Auto-wavelength recognition and switching [c]	Yes
Warm up time (s)	0
Storage capacity	10,000 measurements at two wavelengths
Warranty (years)	3
Calibration interval (years)	3

LXM LIGHT SOURCE SPECIFICATIONS [d]

	LXM-SM1 (singlemode)
Input connector	APC MPO-12 male (pinned). Connector with protective shutter.
Source wavelengths (LED source) (nm) [e]	1310 ± 20 1550 ± 20
Output power (dBm)	≥ −13/ ≥ −13
Stability (8 h) (dB) [f]	±0.1
Warmup time (minutes)	15
Tone generation	270 Hz, 330 Hz, 1 kHz, 2 kHz
Warranty (years)	3
Calibration interval (years)	3

LASER SAFETY

LASER 1	IEC 60825-1: Class 1

IN-LINE VFL SPECIFICATIONS (included on each LXM light source) [f]

Laser type (nm) [e]	635 ± 10
Modulation	CW, 1 Hz, 4 Hz
Typical power output (mW)	≤ 1
Laser safety	IEC 60825-1: Class 1

a. For calibrated wavelengths.
b. For the range −5 dBm to −40 dBm.
c. When used with an LXM MPO light source in FasTesT mode.
d. At 23 °C ± 2 °C.
e. Typical.
f. After a 15-minute warm-up.
g. VFL is on channels 2, 5, 8, 10 and 12.

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GENERAL SPECIFICATIONS

Display		4-in touchscreen
Display type		Color display with capacitive touchscreen
Dimensions		171 mm × 93 mm × 48 mm (6 $\frac{3}{4}$ in x 3 $\frac{11}{16}$ in x 1 $\frac{7}{8}$ in)
Weight (with battery)		0.5 kg (1 lb)
Data sharing		Via USB interface to PC (reporting via FastReporter 3)
Test speed		Loss and polarity measurement for MPO-12 cable at 2 wavelengths in 1 second
Temperature	Operating	−10 °C to 45 °C (14 °F to 113 °F)
	Storage	−40 °C to 70 °C (−40 °F to158 °F)

GP-3151 GP-10-061 GP-2249 GP-153 GP-3157 GP-3198 GP-3199 GP-3150

ACCESSORIES

Carrying pouches and cases	GP-3151	Soft pouch
	GP-10-061	Medium soft carrying case • Can contain a pair of PXM and LXM with related accessories and test cords
Cleaning kits	GP-2249	MPO cleaning supplies including: • ½ size QbE™ cube (qty: 1) • MX cleaning pen (qty: 1) • IBC™ brand cleaner for 1.25 mm connectors (qty: 1) • IBC™ brand cleaner for 2.5 mm connectors (qty: 1) • IBC™ brand cleaner for MPO style connectors (qty: 1)
	GP-153	IBC™ brand cleaner for MPO style connectors
MPO test cord kits	MPO-12-SM-TJ-KIT1	Singlemode MPO-12 test jumper kit • Covers pinned and unpinned configurations Includes: • TJ-B92F-12-92F MPO-12 singlemode test jumper APC connectors unpinned/unpinned (qty: 2) • TJ-B92F-12-92M MPO-12 singlemode test jumper APC connectors pinned/unpinned (qty: 1) • TJ-B92M-12-92M-A MPO-12 singlemode adapter cord test jumper APC connectors pinned/pinned (qty: 1) • RAC-MPO-12-TypeA MPO-12 bulkhead type A: opposite key (key up to key down) (qty: 3)
Wrist strap	GP-3157	Wrist strap
Power adapters	GP-3199	USB AC adapter
	GP-3198	USB-C to USB-C cable
Battery	GP-3150	Battery (qty: 1)

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ORDERING INFORMATION

PXM (MPO power meter)

PXM

Model ∎
PXM = Multi-fiber power meter

LXM (MPO light source)

LXM-XX

Configuration ∎
SM1 = Singlemode multi-fiber light source 1310/1550 nm

Example: LXM-SM1

TK-PXM-LXM-SM1:
MPO singlemode Tier-1 certification kit

PXM   LXM-SM1   MPO-12-SM-TJ-KIT1   GP-10-061

ORDERING INFORMATION (KIT)

TK-PXM-LXM-SM1: MPO singlemode Tier-1 certification kit	Includes: • PXM: multi-fiber power meter • LXM-SM1: singlemode multi-fiber light source 1310/1550 nm • MPO-12-SM-TJ-KIT1: singlemode MPO-12 test jumper kit • GP-10-061: medium soft carrying case

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