

LTK-1

BENCHTOP OPTICAL KITS



Compact and flexible test kits in new LTB-1 benchtop platform.

KEY FEATURES

High-performance power meter with choice of one, two or four detectors

Continuous sampling rate of up to 5 kHz

Easy-to-use web-based user interface

The FIP-400B fiber inspection probe can be added as an option

IVI compliant drivers for fast and simple integration into automated test systems

COMPLEMENTARY PRODUCTS



Fiber Inspection Probe
FIP-400B



Variable Attenuator
FVA-3150

GET FAST, HIGH-PERFORMANCE MEASUREMENTS WITH THE FTB-1750 OPTICAL POWER METER

The FTB-1750 optical power meter is EXFO's answer to meet your power measurement requirements. Designed for the LTB-1 benchtop platform, this power meter delivers speed, accuracy and flexibility in a compact form-factor.

High-Speed Acquisition with an Extended Range

The unique and patented design of the FTB-1750 helps you save time and cut costs while significantly enhancing throughput with a continuous-mode peak-acquisition speed of 5208 samples per second. With a range of 85 dB and fast stabilization time, this power meter lets you simultaneously measure low and high signals on up to four channels.

Data Acquisition

Perform acquisitions on a single-channel, or on all four channels simultaneously, and save all test results in a file on the LTB-1 platform or on your network.

Easy-to-Use Interface

The web-based graphical user interface (GUI) is optimized for use with the LTB-1 touchscreen display and allows easy configuration of the power meter. The GUI also gives a clear view of power readings and settings.

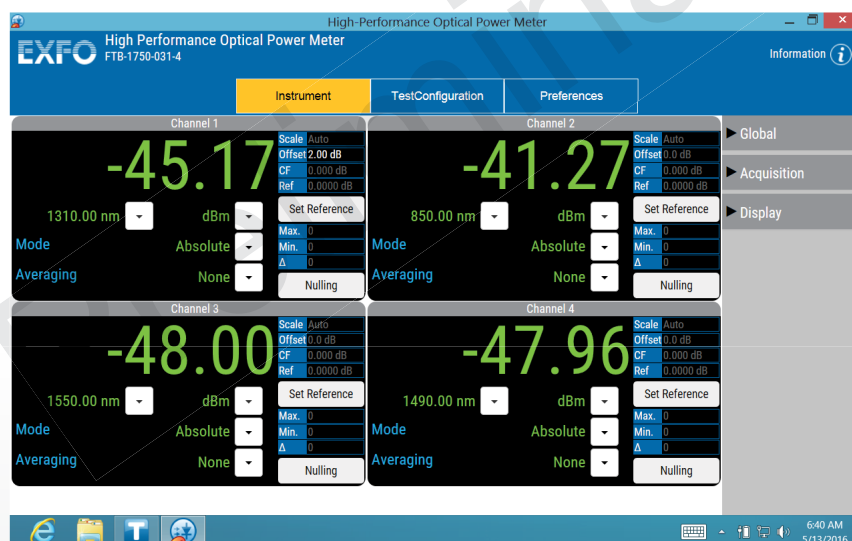


Figure 1. Test four channels simultaneously and easily with the user-friendly interface.

LOCALLY, REMOTELY OR AUTOMATED – THE CHOICE IS YOURS

Control your FTB-1750 power meter locally using the LTB-1 touchscreen display or access the same application remotely via any web browser by connecting the LTB-1 to your network.

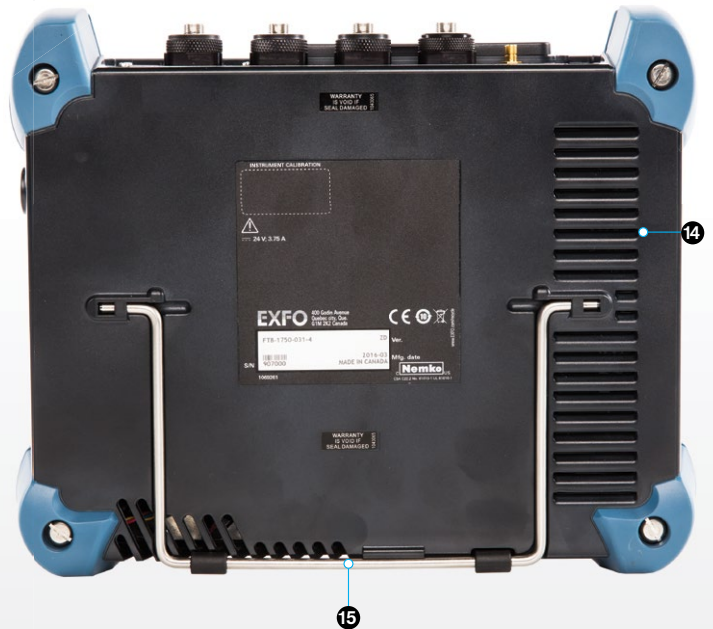
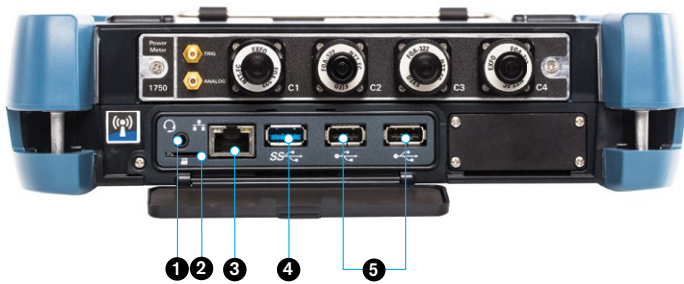
The FTB-1750 optical power meter can also be easily integrated into an automated test station using the IVI compliant drivers or SCPI commands available. Remote control is easily performed using Telnet over the built-in Ethernet port of the LTB-1 benchtop platform.

THE LTB-1 BENCHTOP PLATFORM—COMPACT YET POWERFUL

The new Windows-based LTB-1 benchtop platform offers maximum efficiency and flexibility with its powerful processor, touchscreen display and Ethernet remote control port. It is also compatible with the industry's leading and fully automated fiber inspection probe, the FIP-400B.

DESIGNED FOR EFFICIENCY

- | | | |
|---------------------------|---------------------------------|-----------------------|
| 1 Microphone/headset jack | 6 AC adapter | 11 Switch application |
| 2 Micro SD card slot | 7 Kensington security lock slot | 12 Power on/off |
| 3 One GigE port | 8 Speaker | 13 Battery LED |
| 4 One USB 3.0 port | 9 Brightness control | 14 Module back |
| 5 Two USB 2.0 ports | 10 Keyboard/screen capture | 15 Stand support |



FIBER CONNECTOR INSPECTION AND CERTIFICATION—THE ESSENTIAL FIRST STEP



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, which can be performed by technicians of all skill levels.

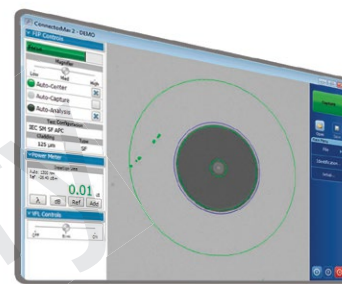
100%
Automated^a

1-step
process^a

57%
shorter test time^b

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	X	✓	✓
Automatic focus function	X	X	✓
On-board pass/fail analysis	X	✓	✓
Pass/fail LED indicator	X	✓	✓



ConnectorMax2

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

Notes

a. Model FIP-430B only.

b. Data sourced from EXFO's case study, with calculation based on typical analysis time.

SOFTWARE TEST TOOLS

This set of platform-based software testing tools enhances the value of the LTB-1 platform, providing additional testing capabilities without the need for additional modules or units.

SOFTWARE APPLICATIONS

ConnectorMax2

Providing lightning-fast results in the first step of fiber-link testing, ConnectorMax2 is a powerful platform-based, automated inspection application; it delivers quick pass/fail assessment of connector end faces and is specifically designed to save both time and money in the field and in the lab.

LTB-1 BENCHTOP PLATFORM SPECIFICATIONS

SPECIFICATIONS	
Mainframe	Dual-core processor/4 GB RAM/Windows Embedded 8 Standard
Display	Multitouch, wide-screen, color, 1280 x 800 TFT 203 mm (8 in)
Interfaces	RJ45 LAN 10/100/1000 Mbit/s Two USB 2.0 ports One USB 3.0 port Micro SD card slot 3.5 mm headset/microphone port
Storage	64 GB internal memory (flash)
Battery	Rechargeable Li-ion smart battery
Power supply	AC/DC adapter, input: ~ 100 V – 240 V; 50/60 Hz; 2.5 A max, output: --- 24 V; 3.75 A

GENERAL SPECIFICATIONS	
Size (H x W x D)	210 mm x 254 mm x 66 mm (8 ¼ in x 10 in x 2 ⅝ in)
Weight	2.4 kg (5.3 lb)
Temperature	
Operating	0 °C to 40 °C (32 °F to 104 °F)
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity	0 % to 80 % non-condensing

Preliminary

FTB-1750 OPTICAL POWER METER SPECIFICATIONS

SPECIFICATIONS ^a	
Model	FTB-1750
Number of detectors	1/2/4
Detector type	InGaAs
Detector size (mm)	1
Wavelength range (nm)	800 to 1700
Power range (dBm) ^b	6 to -80
Uncertainty ^{b, c}	±(5 % + 10 pW)
Wavelength resolution (nm)	0.01
Sampling rate (sample/s per channel)	Up to 5208
Fiber type (µm)	5/125 to 62.5/125 N/A ≤ 0.3
External trigger Input voltage (V)	0 to 5 (TTL)
Analog output Output voltage (V)	0 to 5 (typical)

Notes

a. At 1550 nm (unless otherwise specified), with an FC angled connector and a warm-up time of 20 minutes, followed by an offset nulling. At 23°C ± 1°C.

b. Averaging time of 1 s.

c. Add 1 % uncertainty below 1000 nm and 6 % over 1640 nm.

ACCESSORIES			
GP-302	USB mouse	GP-2233*	90 W, AC adapter with power cord * Specify country power cord: A = North America, C = China, E = Europe, G = Argentina, I = India J = Japan, S = Australia and New Zealand, U = United Kingdom
GP-2016	RJ45 LAN cable (10 feet)	GP-2235	Stylus (qty: 5)
GP-2137	USB to RS-232 DB9 male serial converter (5 m)	GP-2253	Li-ion smart battery (qty: 1)
GP-2219	Compact USB keyboard		

ORDERING INFORMATION

LTK-1-1-XX-XX-FTB-1750-031-X-FOA-XX

Inspection Probe Model

00 = Without probe

FP410B = Digital video inspection probe
Triple magnificationFP420B = Analysis digital video inspection probe
Automated pass/fail analysis
Triple magnification
AutocenteringFP430B = Automated analysis digital video inspection probe
Automated focus
Automated pass/fail analysis
Triple magnification
Autocentering**Base Tips**

APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC

UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Number of channels

1 = One channel

2 = Two channels

4 = Four channels

Connector adapter

FOA-316 = SMA 906 ultra-low-reflection

FOA-322 = FC ultra-low-reflection: FC (PC/SPC/UPC/APC), NEC-D3

FOA-328 = DIN 47256 (LSA) ultra-low-reflection: DIN 47256 (PC/APC)

FOA-332 = ST ultra-low-reflection: ST (PC/SPC/UPC)

FOA-340 = Diamond HMS-0, HFS-3 (3.5 mm) ultra-low-reflection

FOA-354 = SC ultra-low-reflection: SC (PC/SPC/UPC/APC)

FOA-376 = FSMA HMS-10/AG, HFS-10/AG ultra-low-reflection

FOA-384 = Diamond HMS-10, HFS-13 ultra-low-reflection

FOA-397 = LX.5 ultra-low-reflection

FOA-398 = LC ultra-low-reflection

FOA-399 = MU ultra-low-reflection

Example: LTK-1-1-FP430B-APC-FTB-1750-031-4-FOA-322

Note

a. Available only if probe option is selected.

EXFO Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | www.EXFO.comEXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. **Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.**For the most recent version of this spec sheet, please go to the EXFO website at www.EXFO.com/specs.

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