

Measurement Tool for **Live Fiber** testing of FTTX

LBT-101 SHORT RANGE OPTICAL TESTER



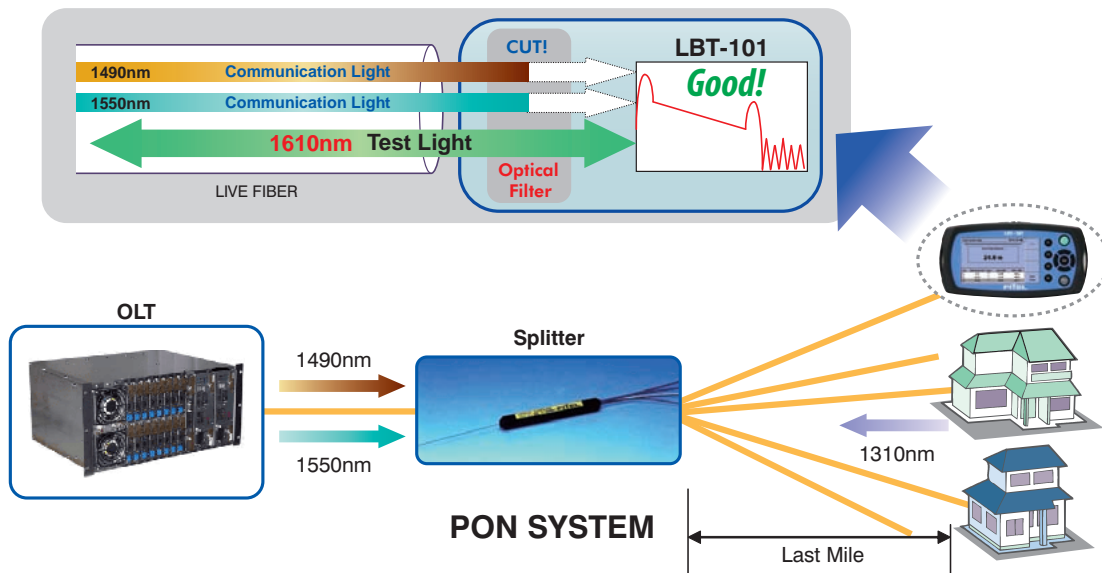
1610nm light source and built-in **Optical Filter** realized the test of live fiber of PON system.
First in the industry!

FEATURE

- Live Fiber Testing *1**
 Enabled live fiber testing by launching 1610nm wavelength, with optical filter which block the current wavelength (1310 / 1490 / 1550nm).
- Portable**
 LBT-101 is a lightweight, handheld, user-friendly tool. Easily held in one hand.
- Easy Operation**
 Just pressing "START" button and it will start. Easy to operate for less experienced user.
- High Resolution**
 5cm distance resolution. 2m dead zone.
- Built-in Fiber**
 Measurable from the first connector.
- Real Time Sweeping**
 Real time sweeping to identify target fiber.
- Data Storage**
 Internal storage is 40MB (up to 800 traces). Also supported by external USB memory.
- Wide Screen**
 Full color 4.3" wide screen which provides high visibility, both indoor and outdoor.
- Long Battery Life**
 Typically 3.5 hours by single charge.

*1 : The confirmation that there is no influence on the actual communication system is necessary.

APPLICATION



SHORT RANGE OPTICAL TESTER

LBT-101



STANDARD PACKAGE

Product Name	Code	Note
Main Unit (LBT-101)	LBT-101-C	
AC Adapter		Standard Accessory
Battery Pack		Standard Accessory

SPECIFICATIONS

Item	Specifications
Wavelength *1	1610±5 nm
Fiber Type	SMF (ITU-T G.652)
Optical Filter	Cut 1310 to 1550nm
Built-in Fiber	10m
Distance Range *2	1.0 km (3,000 ft) or 2.5 km (8,000 ft) set automatically
Pulse width	15 ± 3 ns
Dynamic Range	≥ 6 dB
Deadzone	Fresnel: ≤ 2 m *3, Backscatter: ≤ 7 m *4
Sampling Resolution	5 cm (Distance range 1.0km), 10 cm (Distance Range 2.5 km) (IOR=1.50000)
Sampling Points	20001 (Distance range 1.0km), 25001 (Distance Range 2.5 km)
Data Storage	Internal memory: 40MB (up to 800 traces), External (USB): up to 20,000 traces with 1GB
IOR Setting	1.3000 to 1.7000 (0.0001 steps)
Unit	ft, m
Fiber Event Analysis	Automatic, displayed in table format on user defined PASS/FAIL thresholds
Loss Modes	2 point loss, dB/km
OTDR Trace Format	Telcordia universal (.SOR), issue 2 (SR-4731)
Other Functions	Integrated launch fiber: 10 m (30 ft)
	Connection check: Automatic check of OTDR to FUT connection quality
	Real time sweep: <1 sec (typical)
Dimensions / Weight	190 (W) mm x 96 (H) mm x 48 (D) mm (7.5" x 3.8" x 1.9") / < 800g (< 2 lbs)
Display	4.3 inch TFT-LCD (480 x 272, with backlight, transparent type)
Interface	USB 1.1, Type A x 1 (memory), Type Mini-B x 1 (USB mass storage)
Power Supply	9 VDC, 100 to 240 VAC, Allowable input voltage: 80 to 264 V, 50/60 Hz
Battery Pack	NiMH, Operating Time: 3.5 hours (typical) *5, Recharge Time: < 3 hours *6
Laser Safety	IEC 60825-1:2007 Class1 This product complies with 21 CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007
Environmental Conditions	Operation: 0 to +40°C, ≤ 80% (non-condensing) *7, Storage: -20 to +60°C
	Vibration: MIL-T28800E Class 3, Dust and Drip proof: IP 51

*1: at 25°C

*2: Averaging: 10 seconds, SNR=1, 25°C

*3: Return loss 45 dB, Deviation ±0.5 dB, 25°C

*4: Return loss: 45 dB, 25°C (1.5 dB down from the peak of Fresnel)

*5: back light low, sweeping halted at 25°C

*6: 10 to +30°C, Power OFF

*7: 10 to +30°C (During Recharging battery, Power OFF)

IEC 60825-1 2007
CLASS 1 LASER PRODUCT

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