



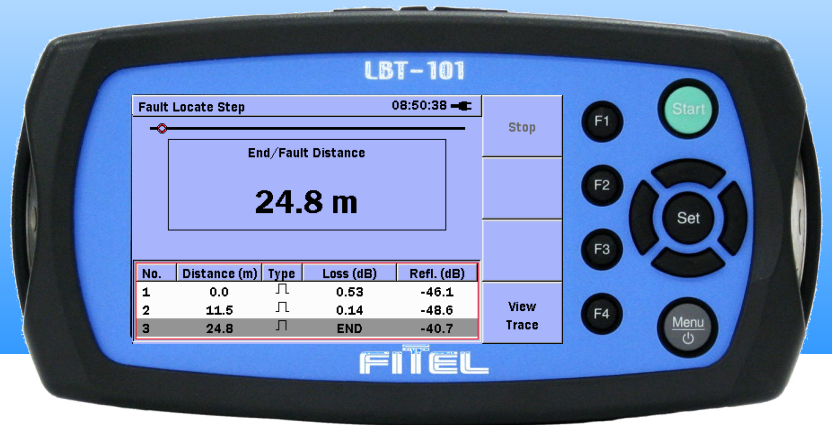
FITEL

SEIWA

Maintenance Tool for **Live Fiber** of FTTH

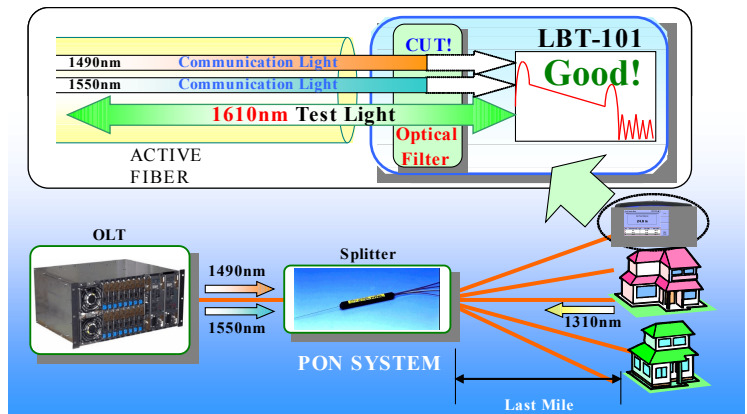
SHORT RANGE OPTICAL TESTER

with Built-in
Optical Filter



KEY TECHNOLOGY

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



FEATURES

- **Live Fiber Testing** *1
Enabled live fiber testing by launching 1610nm wavelength, with optical filter, which block the current wavelength(1310nm/1490nm/1550nm).
- **Portable**
LBT-101 is a lightweight, handheld, user-friendly tool. Easily grabbed by one hand.
- **Easy Operation**
Just pressing "START" button and it will start. Easy to handle for less experienced operator.
- **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 data 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.

FURUKAWA ELECTRIC



SPECIFICATIONS

Item	Specifications
Wavelength ^{*1}	1610 ± 5 nm
Fiber Type	10/125 um 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	NiMH, Operating Time: 3.5 hours (typical) ^{*5} , Recharge Time: < 3 hours ^{*6}
Environmental Conditions	Operation: 0° to +50°C, < 80% (non-condensing) ^{*7} , Storage: -20° to +60°C
	Vibration: MIL-T28800E Class 3, Dust and Drip proof: IP 51

*1: @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 2001
CLASS 1 LASER PRODUCT

CONSTRUCTION

Product Name	Code	Remark
Main Unit □ LBT-101 □	LBT-101-C	
AC Adapter		Standard Accessory
Battery Pack		Standard Accessory

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