LOT5100 Series OTDR

Description

With the fast growing fiber optic network，the demand for reliable and ease-of-use field test instruments keeps increasing. LinkU LOT5100 OTDR is designed to help technicians make test quickly and accurately with simple steps. It combines various function modules in one unit, including OTDR, Optical Power Meter, stable Laser Source, Visual Fault Locator and fiber microscope (optional), all the modules are very useful in optical fiber evaluation.

Features

Multi-Function OTDR Testing

- Auto/Manual testing and analysis
- Icon-display Fiber Mapper for easy interpretation of network events
- Multiple analysis functions on testing results：Segment/Event point return loss，Multi curves comparison
- In-Line Measurement of PON systems through splitters
- Fault locating, fiber length/loss/return loss measurement
- Connector/ splice/ splitter/ macro bend/ fiber-end detection
- GR-196-CORE (.SOR) file format
- Flexible file Naming
- Screenshot and auto-saved
- Built-in Power Meter, Laser Source and VFL modules

High Performance Platform

- 5.6-inch touch screen
- Lightweight, 1.1kg
- Excellent Man-Machine interface for easy operation
- Short dead zone: EDZ 1m, ADZ 5m
- 16G internal storage capacity
- Full range of models with multiple wavelengths selectable 850/1300/1310/1550/1490/1625/1650nm (customized)
- Damp-dust-shock proof
- Over 8 hours continuous operation

PC Software

- Multi traces analysis
- Single/multi traces printing in one report
- Batch editing and printing
- Bidirectional traces analysis
- CSV report formats

Stabilized Laser Source Module

- Wavelength same as the OTDR
- High precision and easy operation

Optical PowerMeter Module

- Multi-wavelength Calibration
- High Precision and easy Operation

Specification

General				
Display	5.6-inch TFT Touch Screen (640×480)			
Connectivity	USB（Type A×1，Type B×1）			
Storage Capacity	16 GB			
Power Supply	Rechargeable Li-Ion Battery: 7.4V/2500mAh * 2pcs /AC Adapter			
Battery Life	10 hours continuous operation			
Operation Temp.	-10°C - 50°C			
Storage Temp.	-20°C - 70°C			
Humidity	0 - 95% (non-Condensing)			
Weight	1.1kg（including battery）			
Dimensions (L×W×H)	215×155×68mm			
OTDR Module	**Wavelength (±20nm)**	**Dynamic Range (1) (dB)**	**EDZ (m) (2)**	**ADZ(m) (2)**
LOT5100-SD28	1310/1550	28/26	1	5
LOT5100-SD32	1310/1550	30/32	1	5
LOT5100-SD35	1310/1550	35/33	1	5
LOT5100-SD40	1310/1550	40/38	1	5
LOT5100-SD42	1310/1550	42/40	1	5
LOT5100-SS26	1625	26	1	5
LOT5100-SS32	1625	32	1	5
LOT5100-SS35	1625	35	1	5
LOT5100-SS38	1625	38	1	5
LOT5100-SP35	1310/1490/1550	35/33/33	1	5
LOT5100-ST35	1310/1550/1625	35/33/32	1	5
LOT5100-ST40	1310/1550/1625	40/38/38	1	5
LOT5100-ST42	1310/1550/1625	42/40/38	1	5
LOT5100-MD26	850/1300	22/26	1.2	8
LOT5100-SM28	1310/1550/850/1300	28/26/22/26	1 (SM) /1.2 (MM)	5 (SM) / 8 (MM)
LOT5100-SM35	1310/1550/850/1300	35/33/22/26	1 (SM) /1.2 (MM)	5 (SM) / 8 (MM)
LOT5100-SM40	1310/1550/850/1300	40/38/22/26	1 (SM) /1.2 (MM)	5 (SM) / 8 (MM)
Pulse Width	SM: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20μs			
	MM: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs			
Min. Sampling Resolution	0.05 m			
Max. Sampling Point	256,000			
Linearity	≤0.05dB/dB			
Loss Resolution	0.001dB			
Distance resolution	0.01 m			
Distance Accuracy	± (1m+measuring distance×3×10-5+sampling resolution) (excluding IOR uncertainty)			
Attenuation Accuracy	±0.05 dB/dB			
Reflectance Accuracy	Single mode: ±2dB, Multi-mode: ±4dB			
Connector	FC/UPC &. SC/UPC (Standard)			

Note:

(1) Dynamic range is measured with maximum pulse width, averaging time is 3 minutes, SNR=1;
The level difference between the RMS noise level and the level where near end back-scattering occurs.

(2) Event dead zone is measured with pulse width of 3ns; attenuation dead zone is measured with pulse width of 5ns.

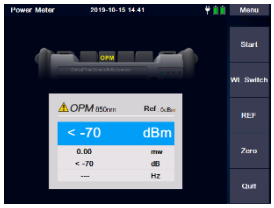
(3) The wavelength of 1625nm in all models can be customized to 1650nm.

Standard Modules

Visual Fault Locator	
Wavelength	650nm
Output Power	10mw @CW
Frequency	CW/2Hz

Stabilized Laser Source Module	
Wavelength	1310nm,1550nm
Output Power	-5dBm±2dB @CW
Frequency	CW/270Hz/1KHz/2KHz

Power Meter Module	
Calibrated Wavelength	850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm
Measurement Range	A: -70dBm - +10dBm (-60dBm - +6dBm @ 850nm) B: -50dBm - +23dBm (-40dBm - +20dBm @ 850nm)
Detector Type	InGaAs
Display Resolution	0.01dB
Accuracy	± 5% ± 0.01nW (±0.5dB@850nm)



Optional Modules

Optical Connector Inspector Module - LFM	
Magnification	400x
Resolution Ratio	0.75 μm
Sennor	1/3 decimeter 1.3 million pixels
Weight（kg)	Probe (0.14)
Dimensions(cm)	Probe (22*3*3)
Work/Storage	-20℃~+50℃ / -30℃~+60℃
USB Interface	1.0/1.1/2.0
Tips	25-U-M 125-U-M SC-U-F LC-U-F 25-A-M 125-A-M SC-A-F LC-A-F

*Specifications subject to change without notice

Standard Package:

Main Unit, Lithium Battery*2, Touch Pen, 16G Storage Card, Manual, Software, Mini USB Cable, Power Adaptor, Carrying Bag, Calibration Report