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Testing Instruments &. Tools

PRODUCT BROCHURE

LINKU

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Contents

LOT5200 Series OTDR

Description

LinkU LOT5200 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, Loss Tester, Event map 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

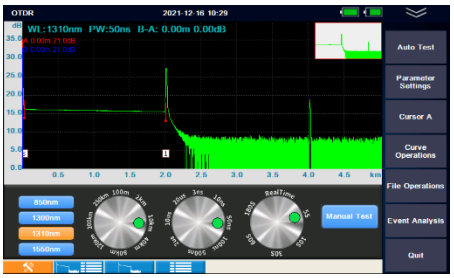
- 7-inch TFT capacitive touch screen
- Lightweight, 1.1kg
- Excellent Man-Machine interface for easy operation
- Short dead zone: EDZ 1m, ADZ 5m
- 16G internal storage capacity
- Full range of models with multiple wavelengths selectable 850/1300/1310/1550/1490/1625/1650nm (customized)
- U-disk, SD card, USB cable export data
- Damp-dust-shock proof
- Over 8 hours continuous operation, 20 hours standby

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	7-inch TFT Capacitive Touch Screen, 800*480 pixel			
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	Over 8 hours continuous operation, 20 hours standby			
Operation Temp.	-10℃ - +50℃			
Storage Temp.	-40℃ - +80℃			
Humidity	0 - 95% (non-Condensing)			
Weight	1.2kg（including battery）			
Dimensions (L×W×H)	215×155×68mm			
OTDR Module	**Wavelength (±20nm)**	**Dynamic Range (1) (Db)**	**EDZ (m) (2)**	**ADZ(m) (2)**
LOT5200-SD32	1310/1550	32/30	1	5
LOT5200-SD35	1310/1550	35/33	1	5
LOT5200-SD40	1310/1550	40/38	1	5
LOT5200-SD42	1310/1550	42/40	1	5
LOT5200-SD45	1310/1550	45/43	1	5
LOT5200-SS32	1625	32	1	5
LOT5200-SS35	1625	35	1	5
LOT5200-SS38	1625	38	1	5
LOT5200-SS40	1625	40	1	5
LOT5200-SP35	1310/1490/1550	35/33/33	1	5
LOT5200-ST35	1310/1550/1625	35/33/32	1	5
LOT5200-ST40	1310/1550/1625	40/38/38	1	5
LOT5200-ST42	1310/1550/1625	42/40/38	1	5
LOT5200-MD26	850/1300	22/26	1.2	8
LOT5200-SM32	1310/1550/850/1300	32/30/22/26	1 (SM) /1.2 (MM)	5 (SM) / 8 (MM)
LOT5200-SM35	1310/1550/850/1300	35/33/22/26	1 (SM) /1.2 (MM)	5 (SM) / 8 (MM)
LOT5200-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

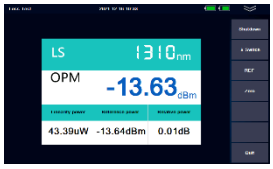
Visual Fault Locator

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

Laser Source

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)

Power Meter



Loss Tester

Optional Modules

Optical Connector Inspector Module - LFM	
Magnification	400x
Resolution Ratio	0.75 μm
Sensor	1/3 decimeter 1.3 million pixels
Weight （kg)	Probe (0.14)
Dimensions(cm)	Probe (22*3*3)
Work/Storage	-10℃~+50℃ / -20℃~+70℃
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, Li-ion Battery*2, 16G Storage Card, Manual, Software, Mini USB Cable, Power Adaptor, Carrying Bag, Calibration Report

*** *Manuals and Software are available for download on our website*

LOT5100 Series OTDR

Description

With the fast growing fiber optic network，the demand for reliable and ease-of-use field test instruments keeps increasing. 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.

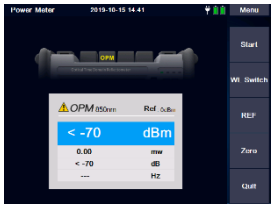
(3) The wavelength of 1625nm in all models can be customized to 1650nm.

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, Li-ion Battery*2, Touch Pen, 16G Storage Card, Manual, Software, Mini USB Cable, Power Adaptor, Carrying Bag, Calibration Report

*** *Manuals and Software are available for download on our website*

LOT2200 Series OTDR

Feature

- Build-in operation system
- 4.3-inch full-view capacitive multi-touch screen
- Standard USB interface supports a variety of external devices, such as U disk, mouse, etc.
- Type C interface can be connected to the computer to read testing results
- Internal storage of 1000 groups of data + SD memory card
- Li-ion rechargeable battery, support charge pal charging

Nine-in-one

1. OTDR 2. OPM 3. VFL 4. LS 5. Loss tester
6. Network Cable tester 7. Event Map 8. Flashlight

Specifications

Model	LOT2200-SD26	LOT2200-MD26	LOT2200-SS26	
Wavelength	1310/1550 nm	850/1300 nm	1310 or 1550nm (with filter)	1610 or 1625 or 1650 nm (with filter)
Dynamic Range (1)	26/24 dB	22/26 dB	26 dB	24dB
EDZ / ADZ (2)	2m / 10m	3m / 10m	2m / 10m	2m / 10m
Measuring Range	100m、500m、2km、5km、10km、20km、40km、80km、100km			
Pulse Width	SM: 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs MM: 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs			
Sampling resolution	Minimum: 0.2m			
The sampling point	64,000 points			
Linearity	≤0.05dB/dB			
Loss threshold	0.01dB			
Loss resolution	0.001dB			
Range resolution	0.01m			
Range accuracy	±(0.5m+Range×3×10^{-5}+Sampling resolution) （Excluding refractive index error）			
Memory	Internal storage of 1000 groups of data + SD memory card			
Data interface	2×USB（Type A×1，Type C×1），SD card slot			
Screen	4.3-inch TFT-LCD, Multi-Touch			
Battery	3.7V/5200mAh			
Temperature	Working temperature：-10℃~+55℃； Storage temperature：-20℃~+80℃			
Humidity	≤95%（No condensation）			
Size/Weight	175x105x45mm / 0.56kg（Contain the battery）			
Standard Accessories	Power Adapter， Rechargeable Li-ion Battery, FC Adaptor, USB Cable, User's Guide, Carrying Bag			

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 and attenuation dead zone are measured with pulse width of 5ns;

Standard Modules

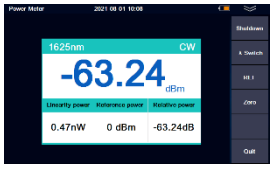
Visual Fault Locator	
Wavelength	650nm
Output Power	10mw @CW
Frequency	CW/2Hz

Visual Fault Locator

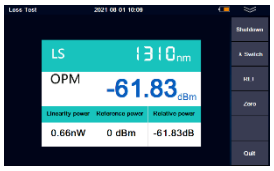
Stabilized Laser Source Module	
Wavelength	Same as OTDR's wavelength
Output Power	-5dBm±2dB @CW
Frequency	CW/270Hz/1KHz/2KHz

Laser Source

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)



Power Meter



Loss Tester

Network Cable Test Module
Support network wire sequence testing and wire alignment T568A / T568B test standard


Network Cable Tester

*** *Manuals and Software are available for download on our website*

LOT2100 Series OTDR

Description

The LOT2100 OTDR is a highly cost-effective, easy-to-use diagnostic tool, specially designed for FTTH network construction and maintenance. Its user-friendly interface has been designed for simple, one-button testing.

Features

- Handheld & lightweight (0.3 Kg)
- Build-in OLS/OPM/VFL modules
- 1000 groups of test records storage
- Event Map
- 3.2-inch LCD screen
- Professional PC software for generating test report
- One-button automatic test

Specification

LOT2100 Series			
Model	LOT2100	LOT2100-15F	LOT2100-16F
Wavelength (±20nm)	1310/1550	1550 with filter	1625 with filter
Dynamic Range (dB) (1)	24/22	22	22
Pulse Width	5ns/10ns/25ns/50ns/100ns/250ns/500ns/1μs/2.5μs/5us/10μs/20μs		
Distance Accuracy	± (1m + measuring distance × 5×10^{-5}+ sampling resolution)		
Attenuation Accuracy	±0.05 dB/ dB		
Reflectance Accuracy	±4 dB		
Event Dead Zone (EDZ) (2)	3m		
Attenuation Dead Zone (ADZ) (2)	8m		
OLS Module	-5dBm		
OPM Module	850/1300/1310/1490/1550/1625nm , +26~-50dBm		
VFL Module	1 mW @ 650nm		
Data Storage	1000 records		
Connectivity	USB		
Power Supply	Rechargeable Li-ion Battery/ AC Adapter		
Battery Life	10 hours / 20 hours (standby)		
Operating Temperature	0℃ ~ 50℃		
Storage Temperature	-20℃ ~ 70℃		
Dimensions (L*W*H)	170mm*82mm*35mm		
Standard Accessories:			
SC/APC connector, USB cable, AC power adapter, analysis software, certificate of calibration, user's guide, carrying bag			

(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 and Attenuation Dead Zone are measured with minimum pulse width;

*** *Manuals and Software are available for download on our website*

LS-3 series Laser Source

Description

LS-3 series Optical Laser Source offers excellent stability and portability for accurate fiber optic testing. By using wavelength-identification digital encrypted protocol, the LS-3 series laser source enables the LP-3 series optical power meter to automatically recognize the wavelength to be tested.

Features

- Wavelength-identification digital encrypted protocol
- Auto power-off, battery indicator
- Power supply and power charge via USB port
- LCD display with back-light
- Up to 50 hours continuous operation

Specification

Model #	LS-3M	LS-3S	LS-3T	LS-3Q	LS-3QS
Output Wavelength (nm)	850/1300nm	1310/1550nm	1310/1490/1550	Port1:850/1300nm Port2:1310/1550nm	Port1:1310/1550nm Port2:1490/1625nm
Laser Type	LD				
Output Stability *	Short term (15 mins): ±0.05dB@1490 ; ±0.2dB@850/1300/1310nm/1550/1625nm Long term (5 hrs.): ±0.2dB@1490 ; ±0.8dB@850/1300/1310nm/1550/1625nm				
Central Wavelength	±20 nm				
Spectral Width	3 nm				
Modulation Frequency	270 Hz, 1KHz, 2KHz				
Output Power	⩾-6dBm @1310/1550/1490/1625nm ;⩾-10dBm @850/1300nm				
Operating/Storage Temperature	-10℃ ~ 50℃ / -20℃ ~ 70℃				
Power supply	3 * AA Batteries; 3*AA Rechargeable Batteries; AC/DC adaptor (USB Port)				
Dimensions (L*W*H)	170mm*82mm*35 mm				
Standard Accessories:					
SC/UPC Adapter, Carrying Bag, User's Guide					
Optional Items:					
SC/APC or FC/UPC or FC/APC Adapter, FC to LC Hybrid Adapter, AC/DC adapter					

** @ 20±3°C, CW, FC connector*

*** Manuals and Software are available for download on our website

LP-3 series Optical Power Meter

Description

Optical Power Meter is used to test optical power, loss, continuity and faults on all types of fiber optic systems. LP-3 series OPM provides high accuracy and simplicity of test. Working with LS-3 series OLS, it can automatically recognize the wavelength to be tested to reduce the possibility of wrong operation.

Features

- Auto-wavelengths recognition (working with LS-3 series OLS)
- Auto power-off , battery indicator
- LCD display with back-light
- Reference value setting
- Up to 1000 testing results storage
- USB port for data transmission (LP-3TV&3CV)
- Build-in 10mW VFL module(LP-3TV&3CV)
- Up to 150 hours continuous operation (Type)

Specification

Model #	LP-3T	LP-3C	LP-3TV	LP-3CV
Calibrated Wavelength	850/1300/1310/1490/1550/1625 nm			
Detector Type	InGaAs			
Measuring Range	-70 to +10dBm	-50 to +26dBm	-70 to +10dBm	-50 to +26dBm
Resolution	0.01dB(>-60dBm)	0.01dB(>-40dBm)	0.01dB(>-60dBm)	0.01dB(>-40dBm)
Accuracy*	±0.2dB			
Connector	FC/PC &. 2.5mm universal			
Modulation Freq. Detection	270Hz, 1KHz, 2KHz			
VFL Module	N/A		650nm, 10mW, CW&.2Hz	
USB port for data transmission	N/A		Available	
Operating/ Storage Temperature	-10℃ ~ 50℃ / -20℃ ~ 70℃			
Power supply	3 * AA Batteries; 3*AA Rechargeable Batteries; AC/DC adaptor (USB Port)			
Dimensions (L*W*H)	170mm*82mm*35 mm			
Standard Accessories:				
FC&SC adapter, carrying bag, User's Guide				
Optional Items				
ST Adapter, FC to LC Hybrid Adapter, AC/DC adapter				

** @ 20±3°C, CW, FC/PC connector, -10dBm*

**** Manuals and Software are available for download on our website*

LM-3 series Optical Multimeter

Description

LM-3 series Optical Multimeter, integrates OLS/OPM/VFL in one rugged unit, is an ideal instrument to test power, loss, continuity and faults on fiber optic network.

Features

- Auto-wavelengths recognition
- Auto power-off , battery indicator
- LCD display with back-light
- Reference value setting
- Up to 1000 testing results storage
- USB port for data transmission
- Build-in 10mW VFL module

Specification

Model #		**LM-3TD**	**LM-3CD**	**LM-3TP**	**LM-3CP**
Optical Power Meter	Calibration Wavelength	850//1300/1310/1490/1550/1625nm			
	Connector	FC &.SC &. 2.5mm universal			
	Display Units	dB/dBm/mW/uW			
	Accuracy*	±0.2dB			
	Modulation Freq. Detection	270Hz/1KHz/2KHz			
	Measuring Range	-70 to +10dBm	-50 to +26dBm	-70 to +10dBm	-50 to +26dBm
Laser Source	Output Wavelength	1310/1550nm		1310/1490/1550nm	
	Connector	SC/UPC or customized			
	Modulation Frequency	270Hz/1KHz/2KHz			
	Output Power	⩾-6dBm @1310/1550/1490nm ; ⩾-10dBm @850/1300nm			
	Output Stability	Short term (15 mins): ±0.05dB@1490 ; ±0.2dB@850/1300/1310nm/1550nm Long term (5 hrs.): ±0.2dB@1490 ; ±0.8dB@850/1300/1310nm/1550nm			
Visual Fault Locator	Wavelength	650nm			
	Output Wave Type	CW &. 2Hz			
	Output Power	10 mw			
Power Supply		3 * AA Batteries; 3*AA Rechargeable Batteries; AC/DC adaptor (USB Port)			
Operating/ Storage Temperature		-10℃ ~ 50℃ / -20℃ ~ 70℃			
Dimensions (L*W*H)		170mm*82mm*35 mm			
Standard Accessories:					
SC/UPC adapter (for LS), SC &.FC adapter (for OPM), carrying bag, User's Guide					
Optional Items					
SC/APC or FC/UPC or FC/APC Adapter (for LS), FC to LC Hybrid Adapter, AC/DC adapter					

** @ 20±3°C, CW, FC/PC connector, -10dBm*

**** Manuals and Software are available for download on our website*

LP-3P PON Optical Power Meter

Description

The LP-3P is designed for the FTTX PON (APON, BPON, EPON and GPON) network installation and maintenance. It can directly show the status of pass or fail by setting threshold.

Features

- Pass/Fail testing with warning tone
- Two testing ports with “ONU” & “OLT/Video”
- Filtered measurements with distinct power display
- Self-calibration
- Auto power-off with sleeping mode, battery indicator
- LCD display with back-light
- 10 thresholds setting
- Up to 1000 testing results storage
- USB port for data transmission
- Up to 10 hours continuous operation

Specification

Model #	LP-3P		
Calibration Wavelength	1310nm	1490nm	1550nm
Measurement Range	-40dBm~+10dBm (continuous) -30dBm~+10dBm (burst signal)	-50dBm~+10dBm	-50dBm~+30dBm
Spectral Passband	1260nm~1360nm	1480nm~1500nm	1530~1570nm
Max. Inputting Power	15dBm	15dBm	30dBm
Isolation	N/A	30dB (to 1550nm)	30dB (to 1490nm)
Accuracy*	±0.5dB (±1dB for burst signal)		
Resolution	0.01dB		
Pass Through Attenuation	<1.5 dB		
Return Loss	>50 dB		
Connector	SC/PC or customized		
Operating/ Storage Temperature	-10℃ ~ 50℃ / -20℃ ~ 70℃		
Power supply	3 * AA Batteries; 3*AA Rechargeable Batteries; AC/DC adaptor (USB Port)		
Dimensions (L*W*H)	170mm*82mm*35 mm		
Standard Accessories:			
SC/APC adapter, carrying bag, User’s Guide			
Optional Items			
SC/UPC adapter, VFL Module (10mW @ 650nm; CW&.2Hz)			

** @ 20±3°C, CW, SC/PC connector, -10dBm*

**** Manuals and Software are available for download on our website*

LP-3PX XG-PON Optical Power Meter

Description

The LP-3PX XG-PON power meter is a highly cost-effective, easy-to-use diagnostic tool to measure B-PON, E-PON and G-PON and next generation high speed 10G PON such as XG-PON and 10G-EPON networks.

Features

- Compatible with both GPON &. EPON networks (up to 10G)
- Pass-through mode for simultaneous measurement and ONU/OLT verification
- USB port for data transmission
- Build-in VFL module and OPM module (optional)
- 10 thresholds setting
- Up to 1000 testing results storage

Specification

		Upstream (ONT/ONU)				Downstream (OLT)			
		1270nm	**1310nm**	**1524~1544**	**1610nm**	**1490nm**	**1550nm**	**1577~1578**	**1596~1603**
Spectral Passband (nm)		1260~1280	1290~1330	1330~1630	1330~1630	1480~1550	1540~1560	1573~1630	1573~1630
Calibration Wavelength(nm)		1270	1310	1534	1610	1490	1550	1577	1600
Measurement Range (dBm)	burst	-10~+13	-30~+13	-10~+13	-10~+13	--	--	--	--
	CW	-35~+13	-30~+13	-35~+13	-35~+13	-50~+13	-45~+30	-50~+17	-50~+17
Maximum Safe Power		16 dBm				17 dBm	30 dBm	20 dBm	
Isolation		30 dB (1) (2) (3)							
Power Uncertainty		0.5 dB (1) (5)							
Return Loss		50 dB (1) (4)							
Pass-through Insertion Loss		1.5 dB (1)							
Resolution		0.01 dB							

(1). Typical value @ 20+3°C, SC/APC connector
(2). No isolation between 1260nm~1280nm and 1330~1630 passband
(3). The same input direction of different spectral bandwidth
(4). At calibrated wavelength
(5). -5dBm input power, CW

General Information	
Connector	SC/APC or Customized
Power Supply	3 * AA Batteries; 3*AA Rechargeable Batteries; AC/DC adaptor (USB Port)
Operating/ Storage Temp.	-10℃ ~ 50℃ / -20℃ ~ 70℃
Dimensions (L*W*H)	170mm*82mm*35 mm

Standard Accessories
SC/APC adapter, carrying bag, User's Guide

**** Manuals and Software are available for download on our website*

VFL Module (optional)	
Output Wavelength (nm)	650
Output Power (mW)	10
Modulation Frequency	CW / 2Hz

OPM Module (optional)	
Calibrated wavelength (nm)	850/1300/1310/1490/1550/1625
Measuring Range (dBm)	-70 to +10 / -50 to +30 (optional)
Accuracy (dB)	±0.2 (1)(2)
Connector	FC/PC &. 2.5mm universal

(1). Typical value @ 20+3°C (2). -5dBm input power, CW

LPV - mini

Description

LPV - mini is a small size, light weight instrument with built-in OPM and VFL. User can view / save the test results displayed on the screen, and upload them to computer.

Features

- 0.96-inch OLED display screen, visible under strong light
- Type C charging port
- Up to 1000 testing results storage
- Display in both mW and dBm values simultaneously
- PC software for upload test results

Specification

Model #	LPV- mini T	LPV- mini C
Calibrated Wavelength	850/1300/1310/1490/1550/1625 nm	
Detector Type	InGaAs	
Measuring Range	-70 to +10dBm	-50 to +26dBm
Resolution	mW/uW：0.1%， dBm/dB：0.01dBm	
Uncertainty	5%	
Connector	2.5mm universal	
Modulation Freq. Detection	270Hz, 330Hz, 1KHz, 2KHz	
VFL Module	650nm, 10mW, CW&.2Hz	
Screen	0.96-inch OLED --- resolution: 128x64	
USB port for data transmission / charging	Type C	
Operating/ Storage Temperature	-10℃ ~ 50℃ / -40℃ ~ 60℃	
Power supply	3.7V/500mAh Lithium battery	
Dimension (mm) / Weight	98*33*23 (L*W*H) / 50g	

LV series Visual Fault Locator

Description

The Visual Fault Locator is usually used to find the broken point in optical fiber/cable, patch cord, and etc. It is a perfect complementary tool for OTDR because of its capability of finding breaks in the dead zone of OTDR.

Features

- ❖ Mini size design, portable and durable
- ❖ Universal connector, ceramic tube replaceable
- ❖ CW/2Hz modulated output

Specification

Model #	**LV - 01**	**LV - 10**	**LV - 30**
Laser Launcher Level	CLASS IIIA	CLASS IIIB	CLASS IIIB
Output Power (1)	1mW	10mW	30mW
Detecting Range (2)	About 5km	About 12km	About 15km
Laser Launcher Type	LD		
Optical Connector	universal 2.5mm adapter		
Output Wavelength	650nm±10nm		
Modulation Frequency	CW / 2Hz		
Power Supply	2 * AAA Batteries		
Working Temperature	-10℃~+50℃; <90%RH		
Storage Temperature	-20℃~+70℃; <90%RH		
Dimension & Weight	113×34×20 mm (L×W×H) ; 70g		
Standard Accessories:			
2.5mm Universal Adapter			
Optional Items			
FC Adapter, SC Adapter, FC(Male) to LC(Female) Adapter for LC Connector， Carry Bag			

Note:

(1) The output power is figured out by multi-mode optical fiber at 23℃±3℃

(2) Detecting range will be different with different fibers.

LS-2 series Laser Source

Description

Laser Source is used to test loss and multi-fiber continuity in optical fiber systems. LS-2 series provides high stability and portability for accurate fiber optic testing.

Features

- Wavelength-identification digital encrypted protocol
- Auto power-off, Back-light
- Two / Three wavelengths on a single port, or Four wavelengths on two ports

Specification

Model #	LS-2M	LS-2S	LS-2T	LS-2Q	LS-2QS
Output Wavelength	850/1300nm	1310/1550nm	1310/1490/ 1550nm	850/1300/ 1310/1550nm	1310/1490/ 1550/1625nm
Laser Type	LD				
Output Stability	Short term (15 mins): ±0.02dB@1310/1550nm ±0.1dB@850/1300/1490/1625nm long term (5 hrs.): ±0.1dB@1310/1550nm ±0.2dB@850/1300/1490/1625nm				
Central Wavelength	±20 nm				
Spectral Width	3 nm				
Output Frequency	270 Hz, 1KHz, 2KHz				
Output Power	-5dBm±0.5dB				
Operating Temperature	-10 to +50°C ; <90% RH				
Storage Temperature	-20 to +70°C ; <90% RH				
Power supply	2 * AA Batteries;				
Dimension &. Weight	160×58×32 mm (L×W×H); 180g				
Standard Accessories:					
FC/PC Adapter, Carrying Bag, Manual					

LP-2 series Optical Power Meter

Description

Optical Power Meter is used to test power, loss, continuity and faults on all types of fiber optic systems. LP-2 series provides high accuracy and simplicity of use.

Features

- Auto-wavelengths recognition
- Auto power-off, Back-light
- Integrated with high performance optical detector and visual fault locator (LP-V)

Specification

Model #	LP-2T	LP-2C	LP-2TV	LP-2CV
Calibrated Wavelength	850/1300/1310/1490/1550/1625 nm			
Detector Type	InGaAs			
Accuracy	±0.35db±1nW			
Resolution	0.01dB			
Linearity	±5%			
Connector	Interchangeable FC, SC, ST &. 2.5mm universal			
Measuring Range	-70 to +10dBm	-50 to +26dBm	-70 to +10dBm	-50 to +26dBm
Tone Detection	270Hz, 1KHz, 2KHz			
VFL Output Power (1)	N/A	N/A	1mW	1mW
VFL Output Wavelength	N/A	N/A	650nm ±10nm	650nm ±10nm
Operating Temperature	-10 to +50℃			
Storage Temperature	-20 to +70℃			
Power supply	2 * AA Batteries; AC/DC Adapter			
Dimension &. Weight	160×58×32 mm (L×W×H); 160g			
Standard Accessories:				
FC &. SC adapter, carrying bag, Manual				
Optional Items				
FC(Male) to LC(Female) Adapter				

Note: (1) The output power of the VFL can be customized.

LM-2 series Optical Multimeter

Description

LM-2 series Optical Multimeter, integrates an optical power meter, a laser source and a visual locator, is an ideal instrument used to test power, loss, continuity and faults on fiber optic systems.

Features

- ❖ Auto-wavelengths recognition
- ❖ Auto power-off, Back-light
- ❖ Integrated with visual fault locator (Optional)

Specification

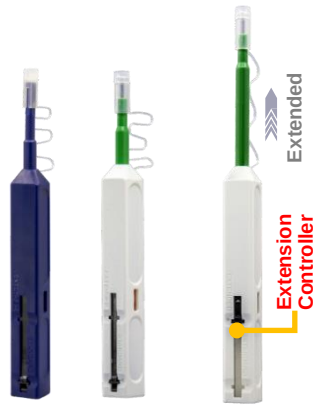
Model #		**LM-2TD**	**LM-2CD**	**LM-2TP**	**LM-2CP**
Optical Power Meter	Calibration Wavelength	850/1300/1310/1490/1550/1625nm			
	Connector	interchangeable FC/SC (ST optional)			
	Display Units	dB/dBm/mW/uW			
	Display Precision	0.01dB			
	Accuracy	±5%±1nW			
	Wavelength Recognition	1310/1490/1550 (input power≥-40dBm)			
	Tone Detection	270Hz/1KHz/2KHz (input power≥-40dBm)			
	Measuring Range	-70 to +10dBm	-50 to +26dBm	-70 to +10dBm	-50 to +26dBm
Laser Source	Output Wavelength	1310/1550nm		1310/1490/1550nm	
	Connector	fixed FC/PC or FC/APC (interchangeable FC/SC/ST customized)			
	Modulation Frequencies	270Hz/1KHz/2KHz			
	Output Power	-5dBm±0.5dB			
	Output Stability	±0.1dB@1310/1550nm; ±0.15dB@1490nm			
VFL (Optional)	Wavelength	650nm ±10nm			
	Output Power (1)	1mw			
Power Supply		2 * AA Batteries; AC/DC Adapter			
Operating Temperature		-10℃~+50℃			
Storage Temperature		-20℃~+70℃			
Dimension &. Weight		160×58×32 mm (L×W×H)； 160g			
Standard Accessories:					
FC&SC adapter for OPM, FC/PC adapter for LS, carrying bag, Manual					

Note: (1) The output power of the VFL can be customized.

One-click Fiber Optic Cleaner

Description

The cleaner is composed with special cleaning reel, extendable nuzzle and guide cap of specified size. These make the cleaner meet rigorous requirements of the cleaning solution.



LOC-1.25E / LOC-2.5E

Features

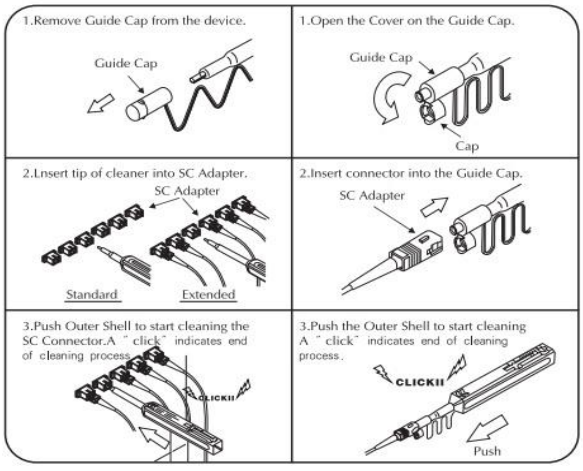
- ❖ Clean over 95% surface of fiber ferrule with only One Click
- ❖ Super long lifetime, over 800 times cleaning
- ❖ Universal ferrule mate connector adapter
- ❖ suitable for all 2.5mm/1.25mm fiber connectors
- ❖ Can handle any types of pollution
- ❖ Suitable for both male (ferrule) and female (adapter) connectors

LOC-2.5L Bent Type

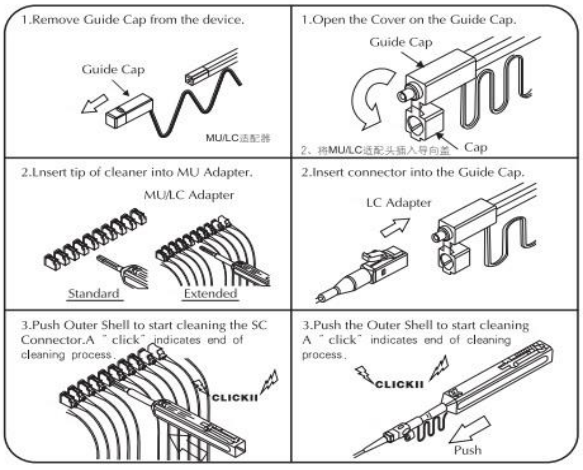
Specification

Model #	LOC-1.25E	LOC-2.5E	LOC-2.5L
Dimension	183*17.5*17.5mm		220*30*20mm
Connector Type	φ1.25mm, LC/MU	φ2.5mm, SC/FC/ST/E2000	
Cleaning Cycles	800 cycles		
Weight	40g		44g

LOC-2.5 Application



LOC-1.25 Application



One-click MPO/MTP Cleaner

Description

LOC-M is specially designed to clean MPO/MTP connectors. Made of non-alcohol high density clean cloth, it can effectively wipe 12 cores at a time. It can clean both male and female MPO/MTP connectors. One push operation offers great convenience.

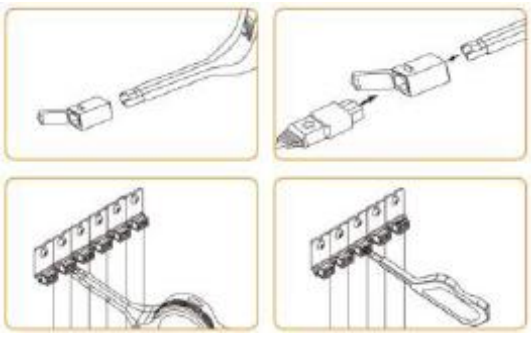
Features

- Effectively clean all kinds of dust, oil and debris;
- Compatible with FOCIS-5 (MPO) connector;
- Easily clean adapters;
- For both male and female connectors;
- Smart and small, access to crowded panels;
- One push operation;
- Over 600 times clean per unit;

LOC-M

Specification

Model #	LOC-M
Connector Type	MPO / MTP, male and female
Compatible End Face	Flat or 8 degree, with both guide pins and no pin
Cleaning Cycles	600+ cycles
Dimension	223*57*15mm
Weight	44g
Anti-Static	No



Optic Fiber Connector Cleaner

Description

Optic Fiber Connector Cleaner uses a specially formulated dry cloth for thorough and efficient cleaning of fiber optic connector end-faces. It eliminates the need for hazardous cleaning fluids that can leave a residue. The cloth is extremely effective in removing grease, dust and other contaminants. It has been adopted by manufacturers in the production line and carriers in the field.

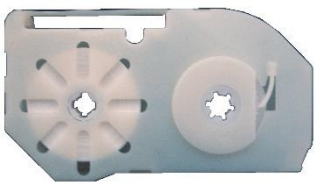
Features

- Environmentally friendly
- Achieve high quality cleaning without alcohol or other solvents
- The cleaning tape is replaceable, which reduces long term costs

Specification

Model#	**LOC-B**
Cleans per Reel	500 times
Applied Connectors	SC, FC, ST, LC, MU, E2000, DIN, D4, MTRJ, MPO, etc without
Tape Length	10 meters
Weight	200g
Size (W*H*D)	125*70*29mm

Replacement Reel:	
Model#	LOC-B-R2
Cleans per Reel	500 times



Launch Fiber Cable Box

Description

The OTDR Launch Fiber box is used with Optical Time Domain Reflectometers (OTDR's) to help minimize the effects of the OTDR's launch pulse on measurement uncertainty. Available in many different configurations and fiber lengths.

Normal model

Features

- ❖ Compact and ruggedized, easy to carry
- ❖ Excellent waterproof and dustproof performance
- ❖ Auto Purge Valve for changes in altitude and temperature
- ❖ Non-metal construction will not corrode or conduce electricity

Specification

Fiber Type	G.657A/G.652D / OM1/OM2/OM3/OM4
Typical Loss	<0.5dB @ 1310nm for 1,000 meters
Connector Type	FC/SC/ST/LC/E2000 selectable
Polishing Type	APC/UPC selectable
Box Material	SR Polypropylene
Color	yellow
Dimension	23.8(L) x 14.1(W) x 6.7(H)cm
Weight	0.6 ~ 0.9 kg
Operating	-40~+55°C

With splice cassette

Order information

Sample：LFB-A-SC-AS-010-S ---- Launch Fiber Cable Box, G652D, SC/UPC-SC/APC,1.0KM, With Splice Cassette

Fiber Type	
A	SM G652D
B	SM G657A
D	SM G657B
P	OM1
Q	OM2
R	OM3
S	OM4

Connector 1 & 2	
SC	SC/UPC
AS	SC/APC
LC	LC/UPC
AL	LC/APC
FC	FC/UPC
AF	FC/APC
ST	ST/UPC
CX	Customized

Length	
050	0.5KM
100	1.0KM
150	1.5KM
200	2.0KM
XXX	Customized

Splice cassette	
--	No
-S	Yes

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