



**FIBRAMÉRICA**  
MINQING TANCOME TECHNOLOGY LTDA



**OPTICAL FIBER TESTING  
INSTRUMENTS AND TOOLS**



# FIBRAMÉRICA

MINQING TANCOME TECHNOLOGY

## Complete solutions for the intelligent development of fiber optic networks

Minqing Tancome Technology, under its trade name FIBRAMÉRICA, is one of the world's leading companies dedicated to the design, development, manufacture, distribution and marketing of advanced optical connectivity solutions. We work closely with the main players in the telecommunications market, such as operators, distributors and importers and installers all over the world, both as OEMs and under our own brand.

Its headquarters are located in Fuzhou, Fujian, China, with sales offices in Shanghai and Ningbo. It also has direct sales units in America, located in Brazil, where all commercial and technical support is provided in Spanish through its engineers and sector specialists. This expansion not only demonstrates its global vision, but also reflects its commitment to localized customer service, providing commercial and technical assistance in the same time zone and language as our customers.

On its path to excellence, FIBRAMÉRICA has adopted a continuous focus on improving processes, integrating emerging technologies and implementing effective communication strategies. Their dedication translates into competitive prices, efficient production times and comprehensive support, from the manufacturing process to product transportation.

Following the strictest international quality norms and standards, such as ISO9001, it guarantees that each of its products meets the quality and functionality expectations of the most demanding customers.

With a vision of the future, FIBRAMÉRICA focuses its efforts on developing and adapting new products, tailored to the specifics and needs of each project, from the initial design phase to final production.



# OPTICAL FIBER TESTING INSTRUMENTS AND TOOLS

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Fibramerica offers a comprehensive range of cutting-edge optical testing instruments and tools designed to meet the demands of modern telecommunications networks. Our lineup includes high-quality equipment engineered for precision, reliability, and efficiency in optical testing and analysis.

From optical power meters and light sources to fiber optic inspection probes and OTDRs (Optical Time-Domain Reflectometers), our instruments are meticulously crafted to ensure accurate measurements and diagnostics. Whether you're conducting fiber optic network installations, maintenance, or troubleshooting, our tools provide the accuracy and versatility needed to streamline your workflow and achieve optimal performance.

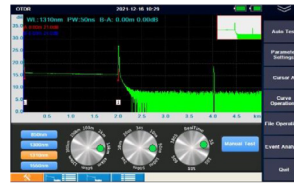
With intuitive interfaces and advanced features, our optical testing instruments empower technicians and engineers to assess network integrity, detect faults, and optimize signal transmission with confidence. We prioritize innovation and quality in every product, ensuring that our customers have access to the most advanced tools for their optical testing needs.

Backed by years of industry experience and a commitment to customer satisfaction, Fibramerica's optical testing instruments and tools are trusted by telecom professionals worldwide. Explore our catalog to discover the latest innovations in optical testing technology and elevate your network performance to new heights.





# LOT5200 Series OTDR



## Description

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.

## 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

General	
Display	7-inch TFT Ca pacitive 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°C - 50°C
Storage Temp.	-40°C - 80°C
Humidity	0 - 95% (Non-Condensing)
Weight	1.2kg(including battery)
Dimensions (L×W×H)	215×155×68mm

OTDR Module	Wavelengths (±20nm)	Dynamic Range <sup>(1)</sup> (dB)	EDZ (m) <sup>(2)</sup>	ADZ (m) <sup>(2)</sup>
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 <sup>-5</sup> +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:
- 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.
  - Event dead zone is measured with pulse width of 3ns; attenuation dead zone is measured with pulse width of 5ns.
  - The wavelength of 1625nm in all models can be customized to 1650nm.

## High Performance Platform

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

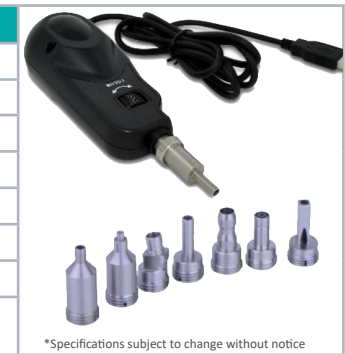


Power Meter Module	
Calibrated Wavelength	850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm
Measurement Range	A: -70dBm - +10dBm (-60dBm - +6dBm @ 850nm)
	B: -50dBm - +23dBm (-40dBm - +20dBm @ 850nm)
Detector Type	InGaAs
Display Resolution	0.01dB
Accuracy	± 5% ±0.01nW (±0.5dB@850nm)



## Optional Modules

Optical Connector Inspector Module - LFM	
Magnification	400x
Resolution Ratio	0.75 μm
Sensor	1/3 decimeter 1.3 million pixels
Weight (kg)	Probe (0.14)
Dimensions (cm)	Probe (22*3*3)
Work/Storage	-10°C~+50°C / -20°C~+70°C
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

# LOT5100 Series OTDR



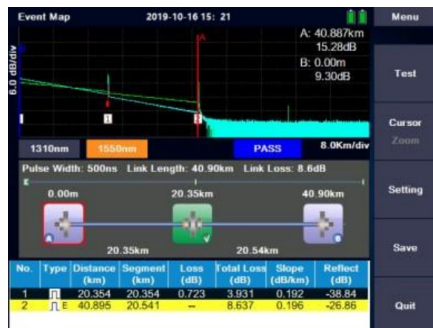
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## Description

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.

## 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)
- U-disk, SD card, USB cable export data
- 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

General	
Display	5.6-inch TFT Touch Screen, 640*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	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	Wavelengths (±20nm)	Dynamic Range <sup>(1)</sup> (dB)	EDZ (m) <sup>(2)</sup>	ADZ (m) <sup>(2)</sup>
LOTD5100-SD28	1310/1550	28/26	1	5
LOTD5100-SD32	1310/1550	30/32	1	5
LOTD5100-SD35	1310/1550	35/33	1	5
LOTD5100-SD40	1310/1550	40/38	1	5
LOTD5100-SD42	1310/1550	42/40	1	5
LOTD5100-SS26	1625	26	1	5
LOTD5100-SS32	1625	32	1	5
LOTD5100-SS35	1625	35	1	5
LOTD5100-SS38	1625	38	1	5
LOTD5100-SP35	1310/1490/1550	35/33/33	1	5
LOTD5100-ST35	1310/1550/1625	35/33/32	1	5
LOTD5100-ST40	1310/1550/1625	40/38/38	1	5
LOTD5100-ST42	1310/1550/1625	42/40/38	1	5
LOTD5100-MD26	850/1300	22/26	1.2	8
LOTD5100-SM28	1310/1550/850/1300	28/26/22/26	1 (SM) /1.2 (MM)	5 (SM) /8 (MM)
LOTD5100-SM35	1310/1550/850/1300	35/33/22/26	1 (SM) /1.2 (MM)	5 (SM) /8 (MM)
LOTD5100-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 <sup>-5</sup> +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.

# LOT1100 OTDR



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Front



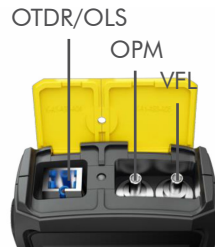
Back



Right



Left



Connector

## Features

- OTDR+OPM+OLS+VFL+LED
- Support live test
- Max. 80km range setting
- 3.5-inch multi-touch screen
- Mobile phone -like UI

Specifications	
Model	LOT1100-13
Dynamic range	20dB
Test range	100m~80km
Wavelength	1310(±20nm)
OTDR/OLS connector	SC/UPC
Pulse width	5ns~20μs
Measurement time	5s~180s
Measurement mode	Real time, average, automatic
Attenuation dead zone	10m
Event dead zone	<3m
Sampling point	8000
Input light detection	Support
OPM	+26~-50dBm, 850/1300/1310/1490/155/1625nm, 2.5mm universal connector
VFL	10mW, 2.5mm universal connector
LCD	3.5-inch high-definition touch screen
Type-C cable	Type-C x1
Self-calibration function	Support
LED light	Support
Working temperature	0°C~50°C
Storage temperature	-20°C~70°C
Relative humidity	<90%
Size(H*W*D)	117mm*70mm*33mm
Weight	217g

# LOT2100 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

Specifications				
Model	LOT2100-SD	LOT2100-MD	LOT2100-15F	LOT2100-16F
Wavelengths (±20nm)	1310/1550 nm	850/1300 nm	1550 nm(with filter)	1625nm(with filter)
Dynamic Range <sup>(1)</sup>	24/22 dB	20/24 dB	24 dB	22 dB
Pulse Width	5ns/10ns/25ns/50ns/100ns/250ns/500ns/1μs/2.5μs/5us/10μs/20μs			
Distance Accuracy	±(1m + measuring distance ×5×10 <sup>-5</sup> + sampling resolution)			
Attenuation Accuracy	±0.05 dB/ dB			
Reflectance Accuracy	±4 dB			
Event Dead Zone (EDZ) <sup>(2)</sup>	3m			
Attenuation Dead Zone (ADZ) <sup>(2)</sup>	8m			
OLS	-5dBm			
OPM	850/1300/1310/1490/1550/1625nm , +26~-50dBm			
VFL	1 mW @ 650nm			
Data storage	1000 records			
Connectivity	USB			
Power Supply	Li-ion Rechargeable Battery/ AC Adapter			
Battery Life	10 hours / 20 hours (standby)			
Operating Temperature	0°C~+50°C   Storage temperature:-20°C~+80°C			
Storage Temperature	-20°C~+70°C			
Size (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			

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.

# LOT2200 Series OTDR



## Features

- Build-in operation system, Cortex-A8 (ARM), 1GHz
- 4.3-inch full-view capacitive multi-touch screen
- Standard USB interface supports a variety of external devices, such as Connector Surface Inspector,U disk, Mouse, etc.
- Uploading testing results to computer via micro-USB interface
- SD card capacity up to 10K groups of testing result
- Li-ion rechargeable battery, support charge pal charging

## Nine-in-One

1. OTDR
2. OPM
3. VFL
4. OLS
5. RJ45 line sequence tester
6. Event Map
7. Flashlight
8. Loss test
9. ConnectorInspector(optional)



Specifications				
Model	LOT2200-SD26	LOT2200-MD26	LOT2200-15F	LOT2200-16F
Wavelengths	1310/1550 nm	850/1300 nm	1550 nm(with filter)	1650nm(with filter)
Dynamic Range <sup>(1)</sup>	24/26 dB	22/26 dB	24 dB	26 dB
EDZ <sup>(2)</sup>	2m	3m	2m	2m
ADZ <sup>(2)</sup>	7m	8m	7m	7m
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 <sup>-5</sup> +Sampling resolution) (Excluding refractive index error)			
Memory	SD card, up to 10K groups of testing result			
OPM	Type A: +10dBm~-70dBm;Type B: +26dBm~-50dBm			
OLS	The output power: -5dBm; Modulation frequency: CW / 270Hz / 1KHz / 2KHz			
VFL	10mW, CW / 2Hz			
Data interface	micro USB, USB disk, SD card slot			
Screen	4.3-inch TFT-LCD, Multi-Touch			
Battery	3.7V/5200mAh			
Temperature	Working temperature:-10°C~+55°C   Storage temperature:-20°C~+80°C			
Humidity	≤95%(No condensation)			
Size/Weight	175x105x45mm / 0.56kg (battery included)			
Standard Accessories	Power Adapter, Rechargeable Lithium 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.

# LOT2200E Series OTDR



## Features

- 4.3-inch full-view capacitive multi-touch screen
- Standard USB interface supports a variety of external devices, such as U disk, mouse, etc.
- Uploading testing results to computer via Type-C interface
- Internal storage of 1000 groups + SD memory up to 10K groups of testing result
- Li-ion rechargeable battery, support charge pal charging

## Eight-in-One

1. OTDR
2. OPM
3. VFL
4. LS
5. RJ45 cable tester
6. Event Map
7. Flashlight
8. Loss test



Specifications					
Model	LOTD2200E -SD26	LOTD2200E -MD26	LOTD2200E -ST24	LOTD2200 -15F	LOTD2200 -16F
Wavelengths	1310/1550 nm	850/1300 nm	1310/1550/1625 nm(with filter)	1550nm (with filter)	1625nm (with filter)
Dynamic Range <sup>(1)</sup>	24/26 dB	22/26 dB	24/22/22 dB	24 dB	22 dB
EDZ <sup>(2)</sup>	2m	3m	2m	2m	2m
ADZ <sup>(2)</sup>	8m	10m	8m	8m	8m
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				
The sampling point	20,000 points				
Linearity	≤0.05dB/dB				
Loss threshold	0.01dB				
Loss resolution	0.001dB				
Range resolution	0.01m				
Range accuracy	±(0.5m+Range×3×10 <sup>-5</sup> +Sampling resolution) (Excluding refractive index error)				
Memory	Internal storage of 1000 groups of data + SD memory card (optional)				
OPM	Type A: +10dBm~-70dBm; Type B: +26dBm				
OLS	The output power: -5dBm; Modulation frequency: CW / 270Hz / 1KHz / 2KHz				
VFL	10mW, CW / 2Hz				
Network Cable test	Support network wire sequence testing and wire				
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°C~+55°C				
Humidity	≤95%(No condensation)				
Size/Weight	175x105x45mm / 0.5kg (battery included)				
Standard Accessories	Power Adapter, Rechargeable Lithium 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.

# Fusion Splicer LFS-4T



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## Features

- Core to core digital alignment
- 6s for splicing, 18s for tube-heating
- 4.3-inch touch screen, small size, easy to carry
- Three-in-one fiber fixture, suitable for all types of optic fibers
- High-power dual-LED light, convenient for night construction
- 5200mAh removable lithium battery, 280 cycles splicing and heating
- ARC calibrated by temperature and air pressure automatically
- No mirror design, reducing maintenance workload
- Apply to high & low temperature, high altitude and harsh environment

Specifications	
Model	LFS-4T
Fiber count	Single
Alignment method	4 motors alignment
Applicable fiber	SM (G.652), MM (G.651), DS (G.653), NZDS (G.655), others (like G.657)
Splicing loss	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04dB (NZDS)
Return loss	>60dB
Operate mode	Manual, Auto
Fiber alignment	Core to core alignment
Splicing time	Typical 6s
Heating time	Typical 18s
Heat shrinkable tube	60mm, 40mm
Fiber cleaved length	8-16mm
Fiber view magnification	350X (X or Y view), 150X (X and Y view)
Display	4.3-inch touch-screen LCD
Tension test	2N
Battery capacity	5200mAh removable Li-ion battery, 280 cycles splicing and heating after fully charged
Electrode life	Around 5000 ARC discharges
Interface	USB for data download and software update
Power Supply	AC/DC Adaptor, input: AC100-240V, output: DC13.5V/4.8A & Li-ion battery
Operating Condition	Temperature: -15-50°C, humidity: <95%RH (no condensation) Working altitude: 0-5000m. Resist max. wind speed: ≤15m/s
Weight	1.95 kg (including battery)
Dimensions (L*W*H)	130 * 154 * 132 mm
Standard Accessories	Fusion splicer, Fiber cleaver, Fiber stripper, Drop cable stripper, AC/DC adaptor, Spare electrodes, Cooling tray, Manual, Carrying case

# Fusion Splicer LFS-6T



## Features

- Core to core digital alignment
- 7s for splicing, 18s for tube-heating
- 5-inch high resolution touch screen, small size, easy to carry
- Three-in-one fiber fixture, suitable for all types of optic fibers
- Real-time ARC calibration automatically
- 6800mAh removable lithium battery, 300 cycles splicing and heating
- 10,000 groups of fusion record or 200 groups of fusion image
- Multiple splicing mode, applicable for SM/MM/DS/NZDS fiber, including G.654E
- Auto identification of fiber type
- Apply to high & low temperature, high altitude and harsh environment

Specifications	
Model	LFS-6T
Fiber count	Single
Alignment method	6 motors core to core alignment
Applicable fiber	SM (G.652), MM (G.651), DS (G.653), NZDS (G.655), BI G.657) and G.654E
Splicing loss	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04dB (NZDS), 0.02dB(BI)
Diameter of fiber	Cladding:80-150μm; Coating:100-1000μm
Return loss	>60dB
Operate mode	Manual, Auto
Tube heating program	Standard Heating or Preheating mode
Splicing time	Typical 7s
Heating time	Typical 18s
Heat shrinkable tube	60mm, 40mm
Fiber cleaved length	8-16mm
Storage of splice result	10,000 groups of fusion record or 200 groups of fusion image
Fiber view magnification	320X (X or Y view), 150X (X and Y view)
Display	5-inch touch-screen LCD
Tension test	2N
Battery capacity	6800mAh removable Li-ion battery, 300 cycles splicing and heating after fully charged
Electrode life	Around 5000 ARC discharges
Interface	2*USB for data download and software update
Power Supply	AC/DC Adaptor, input: AC100-240V, output: DC13.5V/4.8A & Li-ion battery
Operating Condition	Temperature: -15-50°C, humidity: <95%RH (no condensation) Working altitude: 0-5000m. Resist max. wind speed: ≤15m/s
Weight	2kg (including battery)
Dimensions (L*W*H)	130 * 154 * 132 mm
Standard Accessories	Fusion splicer, Fiber cleaver, Fiber stripper, Drop cable stripper, AC/DC adaptor, Spare electrodes, Cooling tray, Manual, Carrying case

# LS-3 series Laser Source

## Description

The Optical Laser Source LS-3 offers excellent stability and portability for accurate fiber optic testing. By using wavelength-identification digital encrypted protocol, the S-3 series laser source enables the optical power meter P-3 series 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



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Specifications					
Model	LS-3M	LS-3S	LS-3T	LS-3Q	LS-3QS
Wavelengths (nm)	850/1550	1310/1550	1310/1490/1550	Port 1: 850/1300 Port 2: 1310/1550	Port 1: 850/1550 Port 2: 1490/1625
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°C ~ 50°C / -20°C ~ 70°C				
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 adaptor				

\* @ 20+3°C, CW, FC connector



# 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. The LP-3 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)

Model	Specifications			
	LP-3T	LP-3C	LP-3TV	LP-3CV
Wavelengths (nm)	850/1300/1310/1490/1550/1625			
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°C ~ 50°C / -20°C ~ 70°C			
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 adapte			

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

# LM-3 series Optical Multimeter

## Description

The Optical Multimeter LM-3, 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



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		Specifications			
Model		LM-3TD	LM-3CD	LM-3TP	LM-3CP
Optical Power Meter	Calibration Wavelengths (nm)	850/1300/1310/1490/1550/1625			
	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 Locator	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	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°C ~ 50°C / -20°C ~ 70°C			
Dimensions (L*W*H)		170mm*82mm*35 mm			
Standard Accessories		SC/UPC adapter (for LS), SC &.FC adapter (for OPM), carrying bag, User's Guid			

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

# 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

Specifications			
Model	LP-3P		
Calib. Wavelengths (nm)	1310nm	1490nm	1550nm
Measuring Range	40dBm~+10dBm (continuous) -30dBm~+10dBm (burst signal)	-50dBm~+10dBm	-50dBm~+30dBm -50dBm~+30dBm
Spectral Passband	1260nm~1360nm	1480nm~1500nm	1530~1570nm
Max. Inputting Power	15dBm	15dBm	30dB
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°C ~ 50°C / -20°C ~ 70°C		
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, FC/PC connector, -10dBm

# LP-3PX XG-PON Optical Power Meter

## Description

The LP-3PX 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



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	Specifications							
	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
Calib. Wavelengths (nm)	1270	1310	1534	1610	1490	1550	1577	1600
Measuring 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
Max. Safe Power	16 dBm				17 dBm	30 dBm	20 dBm	
Isolation	30 dB <sup>(1) (2) (3)</sup>							
Power Uncertainty	0.5 dB <sup>(1) (5)</sup>							
Return Loss	50 dB <sup>(1) (4)</sup>							
Pass Through Insertion Loss	1.5 dB <sup>(1)</sup>							
Resolution	0.01dB							

(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°C ~ 50°C / -20°C ~ 70°C
Dimensions (L*W*H)	170mm*82mm*35 mm

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

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

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

# LP-Mini

## Description

LP-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



Specifications		
Model	LP- 3PS-T	LP-3PS-C
Calib. Wavelengths (nm)	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: 0.01 dBm	
Uncertainty	5%	
Connector	2.5mm universal	
Modulation Freq. Detection	270Hz, 330Hz, 1KHz, 2KHz	
VFL Module	650nm, 10mW, CW&.2Hz	
Screen	±0.5dB (±1dB for burst signal)	
USB port for data transmission / charging	Type C	
Operating/Storage Temperature	-10°C ~ 50°C / -20°C ~ 70°C	
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



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Specifications			
Model	LV - 01	LV - 10	LV - 30
Laser Launcher Level	CLASS IIIA	CLASS IIIB	CLASS IIIB
Output Power <sup>(1)</sup>	1mW	10mW	30mW
Detecting Range <sup>(2)</sup>	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°C~+50°C; <90%RH		
Storage Temperature	-20°C~+70°C; <90%RH		
Dimension (mm) / 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°C±3°C

(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 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



Specifications					
Model	LS-2M	LS-2S	LS-2T	LS-2Q	LS-2QS
Output Wavelengths (nm)	850/1300	1310/1550	1310/1490/1550	850/1300/1310/1550	1310/1490/1550/1625
Laser Type	LD				
Output Stability	Short term (15 mins): $\pm 0.02\text{dB}@1310/1550\text{nm}$ $\pm 0.1\text{dB}@850/1300/1490/1625\text{nm}$				
	Long term (5 hrs.): $\pm 0.1\text{dB}@1310/1550\text{nm}$ $\pm 0.2\text{dB}@850/1300/1490/1625\text{nm}$				
Central Wavelength	$\pm 20\text{ nm}$				
Spectral Width	3 nm				
Output Frequency	270 Hz, 1KHz, 2KHz				
Output Power	$-5\text{dBm} \pm 0.5\text{dB}$				
Operating Temperature	$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}; <90\% \text{RH}$				
Storage Temperature	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}; <90\% \text{RH}$				
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.



Specifications				
Model	LP-2T	LP-2C	LP-2TV	LP-2CV
Calibrated Wavelengths (nm)	850/1300/1310/1490/1550/1625			
Detector Type	InGaAs			
Accuracy	±0.2dB			
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 <sup>(1)</sup>	N/A	N/A	1mW	1mW
VFL Output Wavelength	N/A	N/A	650nm ±10nm	650nm ±10nm
Operating Temperature	-10°C ~ 50°C			
Storage Temperature	-20°C ~ 70°C			
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

The Optical Multimeter LM-2 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 with visual fault locator (Optional)



		Specifications			
Model		LM-2TD	LM-2CD	LM-2TP	LM-2CP
Optical Power Meter	Calibration Wavelengths (nm)	850/1300/1310/1490/1550/1625			
	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 Locator	Output Wavelength	1310/1550nm		1310/1490/1550nm	
	Connector	fixed FC/PC or FC/APC (interchangeable FC/SC/ST customized)			
	Modulation Frequency	270Hz/1KHz/2KHz			
	Output power	-5dBm±0.5dB			
	Output Stability	±0.1dB@1310/1550nm; ±0.15dB@1490nm			
Visual Fault	Wavelength	650nm ±10nm			
Power supply		2 * AA Batteries; AC/DC Adapter			
Operating/Storage Temperature		-10°C ~ 50°C / -20°C ~ 70°C			

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

# Fiber Identifier LFI-4/4V



**LFI-4**



**LFI-4V**

## Standard Items



Carrying bag



Shade cap



0.25, 0.9, 2.0, 3.0 adapter



Packing box

## Features

- Fast find fiber in a mass
- Indicate signal directions in fiber
- Indicate Live or dark fiber
- Detect 270Hz, 1kHz, 2kHz from laser source
- Build in VFL 1mW or 10mW (Optional)
- Suitable for 0.25, 0.9, 2.0, 3.0mm fiber, no need to change adapter
- One-year warranty and Three-year recommended calibration interval

Specifications		
Model	LFI-4	LFI-4V
Wavelengths Range(nm)	800 to 1700nm (SM)	
Recognizable signal type*	CW, 2kHz, 1kHz, 270Hz 10%	
Detector Type	InGaAs 2pcs	
Fiber Type	0.9, 0.25, 2.0, 3.0 mm fiber	
Sensitivity	+10 ~ -50dBm	
Accuracy*	+10dB to -30 dBm (Continuous Wave) / +10dB to -25 dBm (Modulated Signal)	
LED Indicator	Signal direction; signal frequency (2kHz/1kHz/270Hz); low battery	
Visual Fault Locator	No	10mW
VFL Connector	No	2.5mm universal connector
Power supply	2 * AA	

\* at 20 3 , indoor, 1550nm wavelength, 0.9mm fiber, with white coat, 270Hz, error < 5%,

\* 0.25, 2.0, 3.0mm fiber, the performance at continuous wave will be lower

\* 1KHz, 2KHz, the performance at modulated signal will be lower

\* at 1310nm wavelength, the performance will be lower

General Information	
Size(H*W*D)	230mm * 45mm * 45mm
Weight	About 200g
Storage Temperature	-20 to +60°C , < 90%RH
Operating Temperature	-10 to +50°C , < 90%RH

# Fiber Identifier LFI-5V



## Features

- Fast find fiber in amass
- Indicate signal directions in fiber
- Indicate Live or dark fiber
- Detect 270Hz, 1kHz, 2kHz from laser source
- Built-in LED light and 10mW VFL
- 0.96 inch OLED screen, Bulit-in Lithium battery
- Suitable for 0.25, 0.9, 2.0, 3.0mm fiber, no need to change adapter

Specifications	
Model	LFI-5V
Wavelengths Range(nm)	800 to 1700nm (SM)
Recognizable signal type*	CW, 2kHz, 1kHz, 270Hz 10%
Detector Type	InGaAs 2pcs
Fiber Type	0.9, 0.25, 2.0, 3.0 mm fiber
Sensitivity	+10 ~ -40dBm @1550nm
LED Indicator	Signal direction; signal frequency (2kHz/1kHz/270Hz); low battery
Visual Fault Locator	10mW
VFL Connector	2.5mm universal connector
Power supply	5V500mA, Lithium battery

\*at 20 3 , indoor, 1550nm wavelength, 0.9mm fiber, with white coat, 270Hz, error < 5%,

General Information	
Size(H*W*D)	153mm * 42mm * 33mm
Weight	About 90g
Storage Temperature	-20 to +60°C , < 90%RH
Operating Temperature	-10 to +50°C , < 90%RH

# Optical Talksets LT-OTS

## Features

- Full-duplex digital communication with low background noise
- On line communications with Optical Clip-on Coupler
- Large LCD display with backlight
- Detect 270Hz, 1kHz, 2kHz from laser source
- Low battery power indication
- Built-in laser source with CW and 270Hz/330Hz/1KHz/2KHz



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Specifications	
Model	LT-OTS
Wavelengths (nm)	800 to 1700nm (SM)
Dynamic Range	CW, 2kHz, 1kHz, 270Hz 10%
Laser Type &.Output Power	FP-LD , $\geq -5$ dBm
Fiber Type	Single Mode fiber
Output Stability	$< 0.05$ dB @ 20°C, 30mi
Connector Type	SC/PC &. SC/PC
LED Indicator	Signal direction; signal frequency (2kHz/1kHz/270Hz); low battery
Battery operation time	30 hrs (Talksets only) or 50 hrs (Laser Source only)
Power supply	3*AA, 1.5V

General Information	
Size(H*W*D)	200 * 90 * 50 mm
Weight	435g
Storage Temperature	-25 to +70°C , < 90%RH
Operating Temperature	-10 to +60°C , < 90%RH

# Bench-top Optical Fiber Inspection Microscope



## Features

- The image can be moved horizontally and vertically to make it always in the center of the screen
- 8-inch TFT screen
- Interchangeable adaptors, including the standard 2.5mm & 1.25 mm PC & APC. More adaptors can be customized, such as SMA,MPO, and MT-RJ
- Built-in VFL
- Dust-proof design

Specifications		
Model	L -FIM200	L -FIM400
Magnification	200X	400X
CCD size	1/3 - inch	
CCD resolution	520	
Focus adjusted	Manual, horizontally and vertically	
Screen	8" TFT LCD, 1280*768	
Power Supply	DC 12V	
Operation Temperature	+10°C+50°C	
Storage Temperature	0°C+55°C	
Dimensions	285 * 245 * 160 mm	
Weight(kg)	3.0	

# Bench-top Insertion Loss and Return Loss Test Station LB5500



## Description

LB5500 is a high-performance loss test station that is designed especially for Optical Passive Components Production Test and Lab Test. It combines three different working modes as a return loss meter, optical power and loss meter and a stable laser source in one test station.

## Features

- High measurement accuracy
- Accurate analysis to wide dynamic ranger and weak signal
- Leakage design of OPM and OLS module, obviously reduced operation procedures.
- Backlight can be changed by the operator, choosing the suitable backlight
- Removable optical connector set design, easy to clean
- USB Port design, enables data transfer to a PC with USB cable
- The latest software, easy using and self-calibration

	Specifications	
	Model	LB5500-SM / LB5500-MM
Optical Return Loss Test	Wavelengths (nm)	1310/1550nm (SM) 1490nm or 1625nm optional   850/1300nm (MM)
	Optic Connector	FC &.SC &. 2.5mm universal
	Output Stability of laser source	0.05dB (1 hour@25°C)
	Accuracy*	±0.2dB
	Measurement accuracy	0.25dB
	Resolution	±0.3dB
	Return Loss Measuring Range	0 ~ 75dB
Optical Power and Insertion Loss Test	Wavelength Range	800~1700nm
	Calibrated wavelength	850/1300/1310/1550nm, more other wavelengths can be optional
	Optic Connector (Power Meter)	Interchangeable FC/SC/ST/2.5mm Universal /1.25mm adaptors
	Photo detector	InGaAs
	Display modes	dBm/dB/xW
	Measurement range	+3 ~ -80 dBm
	Resolution	Non-linear: 0.001dB   Linear: 0.001nw/μW/mW
Measurement accuracy	±5%	
Other Specification	Communication Port	USB
	Power Supply	AC 90-260V, 50~60Hz
	Operation Temperature	-5°C+55°C
	Storage Temperature	-25°C+70°C
	Dimensions	260X240X130mm
	Weight(kg)	2.8

# Single Channel Bench-top Mandrel Free Insertion and Return Loss Test Station LB5601



## Description

LB5601 is a high precision Mandrel Free IL & RL test station, which is widely used to measure insertion and return loss value for optical fiber, passive components, and fiber optical communication system.

This test station also available for dual channel design, which is highly speed up the testing efficiency. This is a useful tool which makes efficient measurement for the optical return loss and also provides a good solution for the return loss measurement on the optical fiber cable which cannot wrap during measurement.

		Specifications
		Model
		LB5604-SM / LB5601-MM
Return Loss Measurement	Wavelength (nm)	1310/1550nm(SM),1490nm or 1625nm (optional) / 850/1300nm (MM)
	Measurement Range	0 ~ 75 dB
	Calibration Wavelength	1310/1550nm,1490/1625 or 850/1300nm
	Measurement Linearity	1dB
	Mandrel-free minimum distance	1.7 meters (both reflections <45dB)
Laser Source Module	Wavelength	1310/1550nm, 1490/1625nm or 850/1300nm
	Output Power	≥-3dBm
	Output Stability	±0.005dB (one hour @ 25°C)
	Connector type	FC/APC
Insertion Loss measurement	Wavelength	1310/1550nm,1490/1625nm or 850/1300nm
	Measurement Range	0 ~ -40dBm
	Linearity	±0.03dB
	Displaying Resolution	Log: 0.01dB   Linear: 0.001nw/μW/mW
	Connector Type	FC/ø2.5mm universal;ø1.25mm universal Bare fiber adaptor, support HP8100BA adaptor
VFL module	Wavelength	650nm
	Central Wavelength	650±20nm
	Output Power(dBm)	0 (10dBm for optional)
General Specification	Communication Port	USB
	Power Supply	AC 170-260V AC 50Hz
	Operation Temperature	-10 to +40°C
	Packing Size	275x310x170mm
	Weight	5.8kg

# Dual Channel Bench-top Mandrel Free Insertion and Return Loss Test Station LB5602

www.fibramerica.com



## Description

LB5602 is designed especially for different connector on both sides patch cord (such as FC-LC, SC-LC ...) and the duplex fiber patch cord, the REF for insertion and return loss can set one time for those kinds of patch cord, no need to change standard patch cord and interchange testing port connector on tester (Especially 2.5mm and 1.25mm interchange). For the tested patch cord, APC end no need to manually set standard patch cord length if PC end measured shortest length is 2.2M.

	Specifications	
	Model	LB5602-SM / LB5602-MM
Return Loss Measurement	Wavelength (nm)	1310/1550nm(SM), 1490nm or 1625nm (optional) / 850/1300nm (MM)
	Measurement Range	0 ~ 75 dB
	Calibration Wavelength	1310/1550nm, 1490/1625 or 850/1300nm
	Measurement Linearity	1dB
	Mandrel-free minimum distance	APC: 1.7M PC(UPC): 2.2M
Laser Source Module	Wavelength	1310/1550nm, 1490/1625nm or 850/1300nm
	Output Power	≥ -3dBm
	Output Stability	±0.005dB (one hour @ 25°C)
	Connector type	FC/APC
Insertion Loss measurement	Wavelength	1310/1550nm, 1490/1625nm or 850/1300nm
	Measurement Range	0 ~ -40dBm
	Linearity	±0.03dB
	Displaying Resolution	Log: 0.01dB   Linear: 0.001nw/μW/mW
VFL module	Connector Type	FC/ø2.5mm universal; ø1.25mm universal Bare fiber adaptor, support HP8100BA adaptor
	Wavelength	650nm
	Central Wavelength	650±20nm
General Specification	Output Power(dBm)	0 (10dBm for optional)
	Communication Port	USB
	Power Supply	AC 170-260V AC 50Hz
	Operation Temperature	-10 to +40°C
	Packing Size	275x310x170mm
Weight	5.8kg	



# Bench-top MPO/MTP Mandrel Free Insertion and Return Loss Tester Station LB9612/9624

## Description

LB9612 MPO/MTP mandrel free IL &. RL test station is specially designfor multi fiber testing. It runs auto-testing on 12 core (24 core) for IL & RL, and get high precise measuring results.



	Specifications		
	Model	LB9612/9624	
	Detector type	Integrating Sphere	
	Wavelength Range	850~1700nm	
	Measuring Range	+3dBm~-75dBm	
	Measuring Fiber Type	SMF/MMF	
	Linearity	$\pm 0.04\text{dB}(+10\sim-35\text{dBm})$ ; $\pm 0.08\text{dB}(-35\sim-45\text{dBm})$ ; $\pm 0.2\text{dB}(-45\sim-55\text{dBm})$	
	Uncertainty	$\pm 3\%$	
Insertion Loss measurement	Wavelength	SM 1310/1550nm	MM 850/1300nm
	Central Wavelength	$\pm 10\text{nm}$	$\pm 30\text{NM}$
	Laser Device	FP	LED
	Fiber Core	9/125	50/125 or 62.5/125
	Output power	$\geq -7\text{dBm}$	$\geq -27\text{dBm}$
	Stability	0.01dB /15min; 0.03dB /8hr	0.03dB /15min; 0.06dB /8hr
	Connector Type	FC/APC	
Return Loss Measurement	Laser Source type	SM	MM
		pulsed FP Laser	
	Measuring Range	15dB ~ 77 dB	14dB ~ 53 dB
	Accuracy	$\pm 1\text{dB}(15\sim55\text{dB})$ ; $\pm 1.5\text{dB}(55\sim65\text{dB})$ $\pm 3\text{dB}(65\sim77\text{dB})$	$\pm 1\text{dB}(14\sim40\text{dB})$ $\pm 2.0\text{dB}(40\sim53\text{dB})$
	Mini. Measuring length	2 meters (APC end) ; 3 meters (UPC end)	
Max. Measuring Length	1000 meters		
General Specification	Packing Size	275x310x170mm	
	Weight	5.8kg	

# Hand-held Inspection Probe



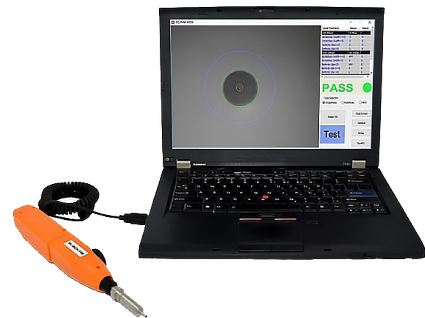
FVM-100

FVM-103

## Features

- Compact design, easy to carry
- Quick imaging, clear display
- Convenient operation
- PC analysis software available (for LFP-30D only)
- Suitable for various male and female adapters

Specifications			
Model	FVM-100	FVM-103	LFP-30D
Resolution	1.0 $\mu\text{m}$	0.75 $\mu\text{m}$	0.75 $\mu\text{m}$
Magnification	400x	200x or 400x	200x
Display	3.5" TFT-LCD, 960*240 Pixel	4.3"	PC
Video Output	AV: NTSC/PAL	AV: NTSC/PAL or USB	USB 2.0
Power Supply	12.6V Li Battery		USB Interface
Standard Package	Probe with 4 standard tips, Monitor with AC/DC adaptor, Hard Carrying case		Probe with 4 standard tips, Analysis Software, Soft Carrying case



LFP-30D(computer not included)



Tips available

Tips Type	Description
25-U-M <sup>(1)</sup>	FC/SC/ST/E2000 UPC Connector
125-U-M <sup>(1)</sup>	LC/MU UPC Connector
25-U-F <sup>(1)</sup>	FC/SC UPC Bulkhead
125-U-F <sup>(1)</sup>	LC UPC Bulkhead
25-A-M <sup>(2)</sup>	FC/SC/ST/E2000 APC Connector
125-A-M <sup>(2)</sup>	LC/MU APC Connector
SC-A-F <sup>(2)</sup>	SC APC Bulkhead
FC-A-F <sup>(2)</sup>	FC APC Bulkhead
LC-A-F <sup>(2)</sup>	LC APC Bulkhead
MPO-U-M <sup>(2)</sup>	MPO/MTP UPC Connector
20-U-M <sup>(2)</sup>	SMPTE/LEMO UPC Connector
20-U-F <sup>(2)</sup>	SMPTE/LEMO UPC Bulkhead

(1) Standard / (2) Optional

# Hand-held Inspection Probe LFP- 50



Tips available

## Features

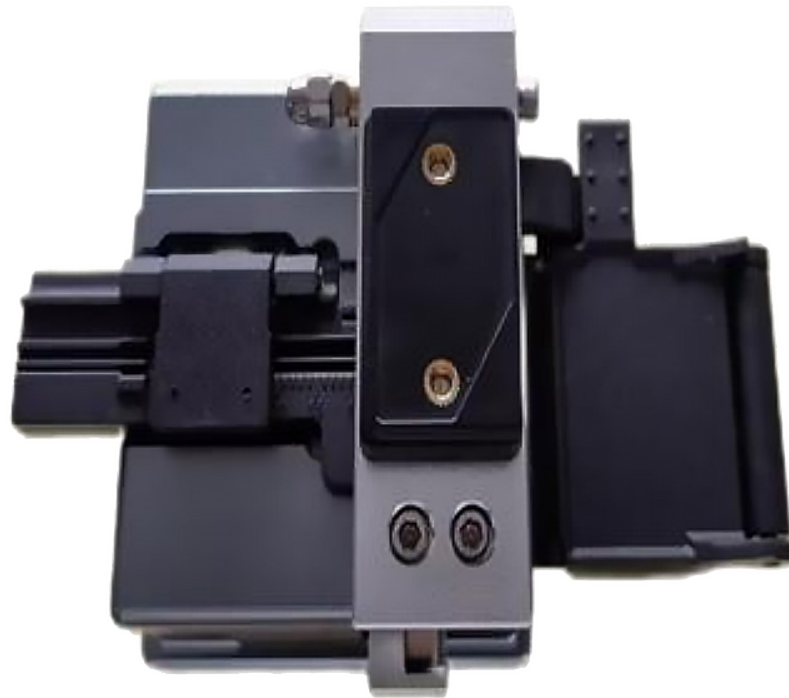
- Wifi / USB two ways of connection for PC / smart phone
- Auto analysis and auto report in 1-3s
- One-click image capture button
- Adjustable brightness control

Specifications	
Model	LFP-50
Magnification	400X or 200X
Connectivity	Wi-Fi 802.11 &. USB 2.0 (micro-USB)
OS compatibility	Android 4.4 / iOS 8.1 or above
Dimension	190 * 50 * 30 mm
Weight	175 g
Power Supply	5V, 3400mAh , Li USB 2.0-ion Battery

Tips Type	Description
25-U-M <sup>(1)</sup>	FC/SC/ST/E2000 UPC Connector
125-U-M <sup>(1)</sup>	LC/MU UPC Connector
25-U-F <sup>(1)</sup>	FC/SC UPC Bulkhead
125-U-F <sup>(1)</sup>	LC UPC Bulkhead
25-A-M <sup>(2)</sup>	FC/SC/ST/E2000 APC Connector
125-A-M <sup>(2)</sup>	LC/MU APC Connector
SC-A-F <sup>(2)</sup>	SC APC Bulkhead
FC-A-F <sup>(2)</sup>	FC APC Bulkhead
LC-A-F <sup>(2)</sup>	LC APC Bulkhead
MPO-U-M <sup>(2)</sup>	MPO/MTP UPC Connector
20-U-M <sup>(2)</sup>	SMPTE/LEMO UPC Connector
20-U-F <sup>(2)</sup>	SMPTE/LEMO UPC Bulkhead

(1) Standard / (2) Optional

# LFC - 100 Fiber Cleaver



www.fibramerica.com

## Features

- Compact design
- High reliability
- 48,000 times cleave per blade
- High stability and precision

## Applications

- 0.125mm Bare Fiber
- 0.25 mm Coated / 0.9mm Tube Fiber
- 2mm, 3mm Fiber Cable
- FTTH Drop Cable

Specifications	
Model	LFC 100
Fiber Diameter	250um/900um
Bare Fiber Diameter	125um
Cleave Angle Capability	typically, <0.8° (single core)
Cleave Length	5~20mm
Blade Lifetime	48,000 times fiber cleaves
Dimension	67*59*55 (mm)
Weight	235g

\* Optional Fiber collector  
 \*\* Replacement Blade

# LFC - 200 High Precision Fiber



## Features

- Compact design
- High reliability
- Good cleaving performance
- 48,000 times cleave per blade
- High stability and precision

## Applications

- 0.25mm Bare Fiber
- 0.9mm Tube Fiber Pigtail
- 2mm, 3mm Fiber Cable
- FTTH Drop Cable

Specifications	
Model	LFC 200
Fiber Diameter	250um/900um
Bare Fiber Diameter	125um
Cleave Angle Capability	typically, <0.8° (single core)
Cleave Length	5~20mm
Blade Lifetime	48,000 times fiber cleaves
Dimension	76*64*57 (mm)
Weight	287g

\* Optional Fiber collector  
 \*\* Replacement Blade

# LFC-300 High Precision Fiber



## Features

- Compact design
- High reliability
- Good cleaving performance
- 48,000 times cleave per blade
- High stability and precision

## Applications

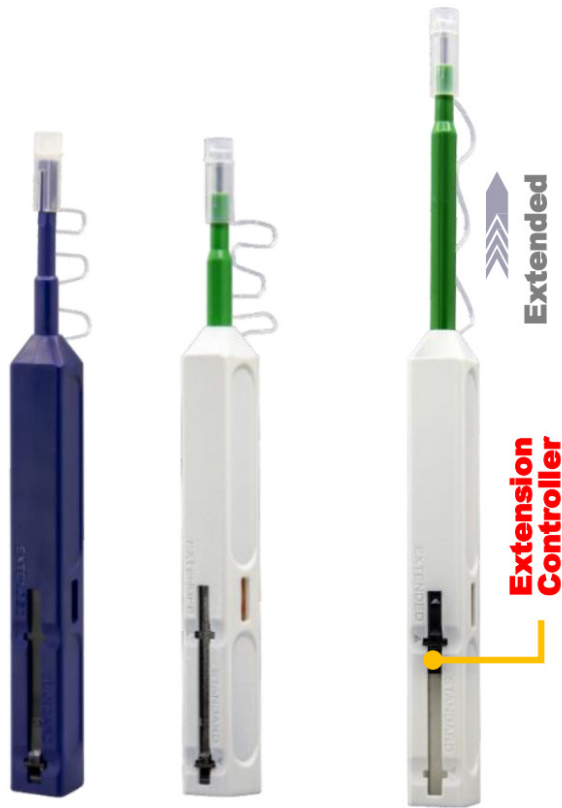
- 0.25mm Bare Fiber
- 0.9mm Tube Fiber Pigtail
- 2mm, 3mm Fiber Cable
- FTTH Drop Cable



Specifications	
Model	LFC-300
Fiber Diameter	250um/900um
Bare Fiber Diameter	125um
Cleave Angle Capability	typically, <math><0.8^\circ</math> (single core)
Cleave Length	5~20mm
Blade Lifetime	48,000 times fiber cleaves
Dimension	65*63*58 (mm)
Weight	360g

\* Optional Fiber collector  
 \*\* Replacement Blade

# One-click Fiber Optic



LOC-1.25 / 1.25E / LOC-2.5 / 2.5E

## Description

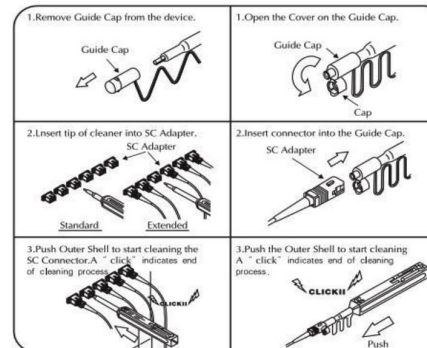
The cleaner is composed with special cleaning reel, extendable nozzle and guide cap of specified size. These make the cleaner meet rigorous requirements of the cleaning solution.

## Features

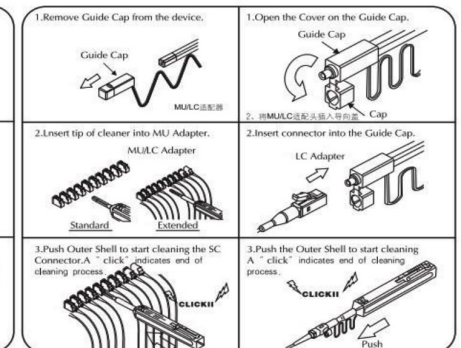
- Clean over 95% surface of fiber ferrule with only One Click
- Super long lifetime, over 800 times cleaning
- Universal ferrule mate connector adapter
- Suitable for all 2.5mm/1.25mm fiber connectors
- Can handle any types of pollution
- Suitable for both male (ferrule) and female (adapter) connectors

Specifications		
Model	LOC-1.25 / 1.25E	LOC-2.5 / 2.5E
Dimension	180*17*17mm	
Connector Type	ø1.25mm, LC/MU	ø2.5mm, SC/FC/ST/E2000
Cleaning Cycles	800 cycles	
Weight	40g	

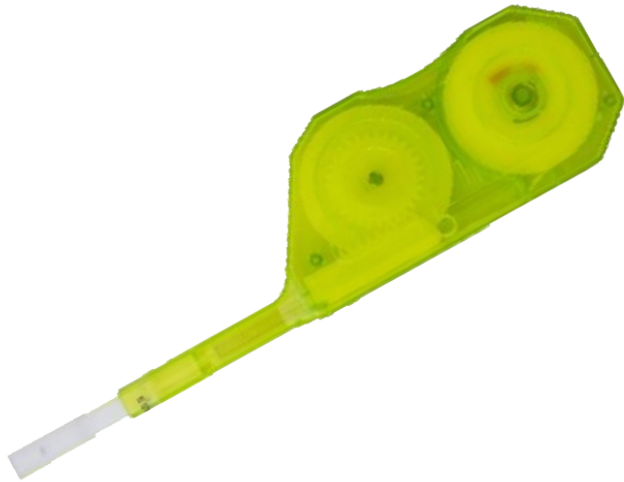
### LOC-2.5E Application



### LOC-1.25E Application



# One-click MPO/MTP Cleaner

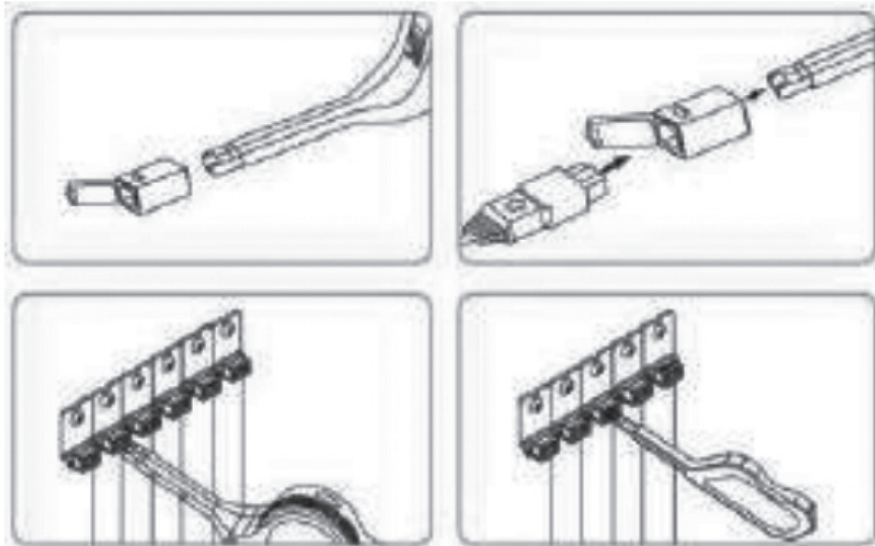


## Description

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



Specifications	
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

Specifications	
Model	LOC-B1
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*85*35mm

Replacement Reel	
Model	Cleans per Reel
LOC-B1-R1	500 times

# Launch Fiber Cable Box



Normal model



With splice cassette



## 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.

## 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 conduct electricity

Specifications	
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

## 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		Connector 1 & 2		Length		Splice cassette	
A	SM G652D	SC	SC/UPC	050	0.5KM	--	No
B	SM G657A	AS	SC/APC	100	1.0KM	-S	Yes
D	SM G657B	LC	LC/UPC	150	1.5KM		
P	OM1	AL	LC/APC	200	2.0KM		
Q	OM2	FC	FC/UPC	XXX	Customized		
R	OM3	AF	FC/APC				
S	OM4	ST	ST/UPC				
		CX	Customized				



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