Dependable Partner for Future Networks

OPTICAL FIBER TEST INSTRUMENTS

Shineway Technologies, Inc.

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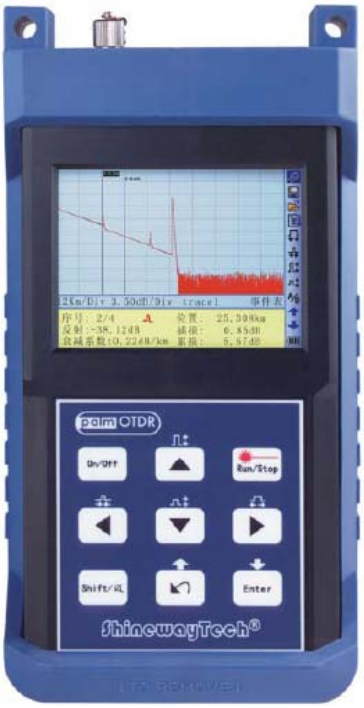
1. Optical Fiber Test Instruments



palmOTDR

—— *The new standard for handy OTDR*

Description



The ShinewayTech® palmOTDR series are optical fault locating and analyzing tools for optical fiber network. With its excellent performance and higher user value, it offers an innovatory test method for telecommunication network.

As a fault locating and analyzing tool much economical than traditional OTDR, the palmOTDR series feature hand-held, compact, lightweight and easy-to-use. The unique hot key design makes it faster and more convenient to review and analyze the event. It has powerful functions, such as supporting averaging and real time test mode. And it can be used in both single mode (1310/1550nm) and multi mode (850/1300nm) fiber applications. With its multi-functional carrying softbag which is convenient for both field and lab testing, the palmOTDR series have become the indispensable and ideal tools for fiber networks construction, daily check and maintenance in FTTx, WAN and CATV systems.

Besides, palmOTDR can save and transfer the measurement curves data to a PC by the software "TraceManager" for further analyzing, reporting and printing. It successfully meets the requirement of different fiber connect type by simply changing different adaptors.

Features

- *Lightweight, portable and ideal for FTTx*
- *Full functions, optional single/multiple mode fiber application*
- *High precise measurement,large memory capacity (300 test curves)*
- *Without hard disk design, anti-dust, damp and shock proof for field test*
- *RS-232/USB data upload port*
- *PC software for measurement data analyzing and reporting*
- *LCD indicators for battery charging and LD lasing status*
- *NiMH rechargeable battery support 4 hours continuous operations*
- *Low battery annunciator*
- *CE, FCC, FDA certificates*
- *Drop tested up to 1 meter*

Technical Specifications

Model[1]	palmOTDR-S20		palmOTDR-M20
	A	C	A
Dynamic Range(dB) [2]	24/24	32/32	18/22
Wavelength(±20nm)	1310/1550(1490 optional)		850/1300
Display Type	Colourful		
Range of Use	Single-mode		Multi-mode
Emitter Type	LD		
Connector Type	FC/PC (interchangeable SC,ST)		
Selectable Ranges(km) [3]	0.3, 1.3, 2.5, 5, 10, 20, 40, 80, 120 ,160, 240		0.1, 0.3, 0.5, 1.3, 2.5, 5, 10@850nm; 0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40, 80@1300nm
Pulse Widths(ns) [4]	5,10,12, 30, 100, 275, 1000, 2500, 1000, 2000		12, 30, 100, 275, 1000@850nm; 30, 100, 275, 1000, 2500@1300nm
Event Deadzone	10m[5]	5m[5]	7m[6]
Attenuation Deadzone	25m[5]	20m[5]	20m [6]
Average Time	15s/30s/1min/2min/3min		
Distance Measure Accuracy	±（1 m + 5×10^{-5}×Distance + sampling space）		
Reflection Detect Accuracy	± 4 dB		
Attenuation Detect Accuracy	±0.05 dB/dB		
Data Storage	300 test curves		
Data Transmission	RS-232/USB port		
Visible Laser Source(For palmOTDR-S20C only)			
Output Power(dBm)	≥-3		
Max. Meas. Range(km)	5		
General Specifications			
Power Supply	NiMH rechargeable battery/AC adapter		
Battery Life	Support over 4 hours operating on one charge or over 20 hours standby		
Data Transmission	RS-232 / USB port		
Operating Temp.	0℃ ~ 50℃		
Storage Temp.	-20℃ ~ 70℃		
Relative Humidity	0 to 95％ (non-condensing)		
Weight	1.9 lbs (0.87kg)		
Dimension (H x W x T)	7.7×3.9×2.4inch (196×100×64mm)		

Note:

(1) Specifications describe the instrument's warranted performance, measured with typical PC-type connectors. Uncertainties due to the refractive index of fiber are not considered;

(2)The dynamic range is measured at maximum pulse width within average time of 3 minutes;

(3)Among the selectable ranges, 0.3km, 160km and 240km only for type C;

(4)Among the pulse widths, 5ns, 10ns, 10us and 20us only available for type C;

(5)Conditions for blind Measurement: Reflection events are within a range of 4km; reflection intensity is less than -35dB; and the blind zone is measured at the minimum pulse width.

(6)Conditions for blind Measurement: Reflection events are within a range of 1km; reflection intensity is less than -32dB; and the blind zone is measured at the minimum pulse width.

Ordering Information

Standard Configuration:

Instrument, Rechargeable NiHM battery, AC adapter, TraceManager software disk, Data transfer cable(RS232/USB), Rubber boot, Toolkit softbag, Fiber Connector Cleaner, Connector Clean Stick, Warranty card, CE/FCC certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number（P/N）	Part Description	Part Number（P/N）
50 m, optical patch cord	AC-FJC-50-FC/FC	Ceramics core for LS	AC-FRL-C
SC connector for LS	AC-CONN-SC-L	Toolkit for luxury package	AC-PB-40
ST connector for LS	AC-CONN-ST-L	Compact carrying soft bag	AC-PB-20

OFL Optical Fiber Length Tester

— *An outstanding tool for event locating in optical networks*

Description

The ShinewayTech® OFL-20 series are optical fiber length testers, and feature lightweight, hand-held, easy-to-use, intelligent and quick test by single key entry for multimode or single mode applications. The useful applications include installation and maintenance of single mode and/or multimode fiber cable in MAN and WAN and CATV systems.



The large LCD display and backlight design makes testing work more comfort and convenient no matter during daytime or at night. OFL-20 series are praised widely for its long time accuracy, outstanding quality, stability and safety.

The OFL-20 series set forth threshold value and can identify breaks in optical cable up to 80km. It has a large storage capacity and can transfer the measurement records to a PC by the provided software for further analyzing, reporting and printing.

The OFL-20 series are designed to fully embody the user's convenience in mind. The multi-functional kitbag is more convenient for field use and laboratory testing. Without any tedious learning process, the engineers can use OFL to support many typical applications with only a fraction of OTDR's cost. The OFL-20 series are ideal tools to locate the fiber breaks and test the fiber length.

Features

- *Lightweight, portable and economical*
- *Easy to use, no tedious learning process*
- *Fast test, and large LCD display*
- *Backlight function supports testing work at night*
- *Amazing fiber length accuracy (±2m)*
- *Large memory capacity (1150 measurements),*
- *PC software for measurement data analyzing and reporting*
- *Dust, damp and shock proof design for field application*
- *Interchangeable fiber-optic adapters (choice of FC,SC or ST)*
- *Built-in NiMH rechargeable batteries support 15,000 operations*
- *Low battery annunciator*
- *CE, FCC certificates*

Technical Specifications

Model	OFL-20A	OFL-20B
Emitter Type	LD	
Wavelength(±20nm)	1310	1550
Maximum Distance Measured	50Km	80Km
Minimum Distance Measured	20m	
Range of Use	Single/Multi- mode	Single mode
Optical Connection	Single Port	
Connector Type	FC/PC	
Accuracy	± 2m	
Refractivity	1.4000 ~ 1.6999	
Number of Events Detected	7	
Data Storage	Up to 1150 measurement records	
Data Transmission	RS-232 port	
Auto Shut off	5 min. after last key has been depressed	
General Specifications		
Power Supply	Built-in NiMH rechargeable batteries / AC adapter	
Battery Life	One charge：≥120 hours standby，or ≥15,000 operations	
Operating Temp.	0℃ ~ 50℃	
Storage Temp.	-20℃ ~ 70℃	
Relative Humidity	0 to 95％ (non-condensing)	
Weight	1.3lbs (600g)	
Dimension (H x W x T)	7.7×3.9×1.7 inch (196×100×44mm)	

Note: Specifications subject to change without notice.

Ordering Information

Standard Configuration:

Instrument(including rechargeable battery), OFL data analysis software disk, Data transfer cable, AC adapter, Rubber boot, Compact carrying softbag, AC adapter, Warranty card, CE certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number	Part Description	Part Number
50 m, optical patch cord	P/N:AC-FJC-50-FC/FC	Ceramics core for LS	P/N:AC-FRL-C
SC connector for LS	P/N:AC-CONN-SC-L	ST connector for LS	P/N:AC-CONN-ST-L

FiberTracer Intelligent Fiber Fault Locator

——*A one-up tool optical fault locating*

The ShinewayTech® FiberTracer series are unique design tools for daily maintenance of optical fault locating and analyzing.

FiberTracer series feature hand-held, compact, lightweight and easy-to-use. It is so powerful to measure both attenuation and events reflection. Besides, FiberTracer can save and transfer the measurement curves data (maximum 200 curves) to a PC by the software "Trace Manager" for further analyzing, reporting and printing.

Features

- Lightweight, portable
- High precise measurement, large memory capacity (200 test curves)
- Without hard disk design, anti-dust, damp and shock proof for field test
- RS-232/USB data upload port
- PC software for measurement data analyzing and reporting
- Support measurement of both attenuation and reflection events
- Display measurement by graphics curves
- NiMH rechargeable battery support 5 hours continuous operations
- CE, FCC, FDA certificate



Technical Specifications

Moel	FiberTracer-13A	FiberTracer-15A
Wavelength(±20nm)	1310	1550
Rang of Use	Single-mode	
Maxi.Measurement Ranges(Km)	60	100
Deadzone(m)	20	
Display Type	Black & White	
Emitter Type	LD	
Connector Type	FC/PC (interchangeable SC,ST)	
DistanceMeasure Accuracy	±(1 m + 5×10-5×Distance + sampling space)	
Attenuation Detect Accuracy	± 4 dB	
Data Storage	200 test curves	
Data Transmission	RS-232/USB	
General Specifications		
Power Supply	NiMH rechargeable battery/AC adapter	
Battery Life	Support over 5 hours operating on one charge or over 20 hours standby	
Operating Temp.	0℃ ~ 50℃	
Storage Temp.	-20℃ ~ 70℃	
Relative Humidity	0 to 95％ (non-condensing)	
Weight	1.9 lbs (870g)	
Dimension (H x W x T)	7.7×3.9×2.4 inch (196×100×60mm)	

Note: Specifications subject to change without notice.

Ordering Information

Standard Configuration:

Instrument, rechargeable NiHM battery, AC adapter, TraceManager software CD, Data transfer cable(RS232/USB), Compact carrying soft bag, Rubber boot, Warranty card, CE/FCC certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number(P/N)	Part Description	Part Number(P/N)
50 m, optical patch cord	AC-FJC-50-FC/FC	Ceramics core for LS	AC-FRL-C
SC connector for LS	AC-CONN-SC-L	ST connector for LS	AC-CONN-ST-L

FiberCute

——*A powerful tool for optical network maintenance*

Description

The ShinewayTech® FiberCute series are very powerful tools for optical network fieldwork, that integrate the functions of optical power meter, stabilized laser source, visible laser source, talk set, loss test, fiber length test in one set. They are portable, intelligent and multi-functional, that maximally reduce the burden of personnel for field communication and test.



The FiberCute series can be widely used in optical fiber networks for engineering construction, testing and maintenance. The functions of optical talk sets and optical power meter can help the engineers at any two given points to get the measurements of loss and attenuation data within the shortest time. With the functions of visible laser source and fiber length tester, they can inspect the short fiber inside optical cable and fiber connector. They are highly praised for its excellent quality, value and all-in-one feature.

The FiberCute series without any tedious learning process are designed to fully embody the user's convenience in mind. They are really cute tools for field communication and test.

Features

- *Six test functions in one set*
- *Support multi-task, for example*
  - ✓ *Optical talk sets, optical power meter, visible laser source and fiber identifier*
  - ✓ *Optical talk sets, length tester, visible laser source and fiber identifier*
  - ✓ *Pulse modulation signal, optical power meter and visible laser source*
- *Graphic interface, large easy to read LCD display*
- *Digital voice coding and decoding to guarantee high-quality speech*
- *Together with Optical Clip-On Coupler, realizing online communications*
- *Compact size, lightweight, and damp, dust, shock proof*
- *Auto off function conserving battery life*
- *CE, FCC, FDA certificates*

Technical Specifications

Model	FiberCute-13A	FiberCute-13B	FiberCute-15A	FiberCute-15B
Talk Set Module				
Wavelength (±20nm)	1310		1550	
Dynamic Range (dB)	40	45	40	45
Transmission Distance (Km)	110	130	160	180
Emitter Type	FP-LD			
Spectral Width (nm)	≤ 5			
Stabilized Laser Source Module				
Wavelength(±20nm)	1310		1550	
Output Power	≥ -5 dBm	≥ -1 dBm	≥ -5 dBm	≥ -1 dBm
Stability	±0.05 dB/15min； ±0.15 dB/8hrs			
Modulation Frequencies	270Hz、1KHz、2KHz			
Emitter Type	FP-LD			
Spectral Width (nm)	≤ 5			
Connector Type	FC/PC(Interchangeable SC,ST)			
Optical Fiber Length Test Module				
Wavelength (±20nm)	1310		1550	
Max Distance Meas.	50Km		80Km	
Min Distance Meas.	20m			
Emitter Type	LD			
Connector Type	FC/PC(Interchangeable SC,ST)			
Max number of events detected	7			
Accuracy	±2m@±20Km			
Index of Refraction	1.4000~1.6999			
Power Meter Module				
Detector Type	InGaAs			
Connector Type	FC/PC(Interchangeable SC,ST)			
Meas. Range (dBm)	-70 ~ +10			
Calibrated Wavelength (nm)	850,1300,1310,1490,1550,1625			
Accuracy	±0.25 dB（5%）@ 25℃ & -10dBm			
Visible Laser Source Module				
Emitter Type	FP-LD			
Connector Type	FC/PC(Interchangeable SC,ST)			
Wavelength(±20nm)	650			
Output Power	≥ -5dBm			
Modulation Frequencies	1Hz			
General Specifications				
Data Storage	3000 records			
Data Transmission	RS232			
Power Supply	NiMH rechargeable battery / AC adapter			

Battery Life	16hrs standby or 9hrs operations
Operating Temp.	0℃ ~ 50℃
Storage Temp.	-20℃ ~ 70℃
Relative Humidity	0 to 95％ (non-condensing)
Weight	1.8 lbs (0.85kg)
Dimension (H x W x T)	7.7×3.9×2.4 inch (196×100×64mm)

Ordering Information

Standard Configuration:

Instrument(including rechargeable battery), AC adapter, Headset, FiberCute data analysis software disk, Data transfer cable(RS232), Rubber boot, Toolkit for softbag, Fiber Connector Cleaner, Connector Clean Stick, Warranty card, CE/FCC certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number	Part Description	Part Number
3 m, optical patch cord	P/N:AC-FJC-03-FC/FC	50 m, optical patch cord	P/N:AC-FJC-50-FC/FC
SC connector for LS	P/N:AC-CONN-SC-L	Ceramics core for LS	P/N:AC-FRL-C
ST connector for LS	P/N:AC-CONN-ST-L	Toolkit for luxury package	P/N:AC-PB-40
SC connector for PM	P/N:AC-CONN-P-300	Compact carrying softbag	P/N:AC-PB-20
ST connector for PM	P/N:AC-CONN-P-300		

OTM-20 Optical Test Meter

— An integrated tool for optical network test and maintenance.

Description

The ShinewayTech® OTM-20 series are integrated testers for optic fiber network, with the features of handheld, intelligent, multi-functional, fast test, dual-way powering system, large LCD display.



The OTM-20 series have a large memory capacity and can transfer the testing data to a PC by associated software for analyzing, reporting and printing. Its multi-functional kitbag is more convenient for field use and laboratory testing. The OTM-20 series are favored for its strong integrated function, outstanding quality, value, stability and safety.

The OTM-20 models combine the function of Laser Source (& Visible Laser) and Optical Power Meter, and ideal for both single-mode and multi-mode fiber checkouts. Besides conducting the measurement of absolute and relative power value, it also can activates self-testing system to measure optical loss of optic fiber cable and passive device, perfect for field installation, routine inspection and maintenance of Optic Telecom and CATV as well as for lab test and research work.

With the optional function of Visible Laser, the OTM can generate red laser and the visible red laser that escapes from optical fibers, finding breaks and tight bends in optical fibers. The visible red laser makes testing and finding breaks in LANs, verifying continuity, checking the validity of patch cables or looking for cracked fiber in splice cases, bad connectors, tight bends in fiber cable.

Features

- *Support quick test, intelligentized operation*
- *Graphic interface, large easy to read LCD display*
- *Measurement units in dB, dBm and W (or mW)*
- *Large memory capacity (4000 measurements)*
- *Support auto test of optic fiber loss*
- *Draw changing curve of power value*
- *Support the optical power alarm function*
- *Automatically data storage*

- *Damp, dust and shock proof design, ideal for field operation*
- *Interchangeable fiber-optic adapters (FC, SC，ST，P/N, E 2000)*
- *RS-232 data upload port*
- *PC associated software for previously stored data analyzing, graphic drawing and reporting*
- *Auto off function conserving battery life*
- *Dual-way powering system*
- *Low battery indicator*
- *CE, FCC, FDA certificates*

Technical Specifications

Model	OTM-20A	OTM-20B	OTM-20C	OTM-20D
Optical Power Meter Module				
Detector Type	InGaAs			
Measurement Range (dBm) (1)	-70 ~ +10		-50 ~ +27	
Calibrated Wavelength (nm)	850,1300,1310,1550		980,1310,1480,1550	
Accuracy (25℃& -10dBm)	±0.25 dB (5%)			
Resolution(dB)	0.001			
Laser Source Module				
Emitter Type	FP-LD			
Wavelength (±20nm)	1310/1550	850/1300	1310/1550	850/1300
Output Power (dBm)	≥ -7			
Spectral Width (nm)	≤ 5			
Stability	±0.05 dB/15min ±0.10 dB/8hr@1310/1550 nm; ±0.15 dB/8hr@850/1300 nm			
Modulation Frequencies (Hz)	270, 1K, 2K Optional			
Connector Type	FC/PC(Interchangeable SC,ST)			
Visible Laser Source Module (for OTM-20AV/BV/CV/DV only)				
Emitter Type	FP-LD			
Wavelength（±20nm）	650			
Output Power（dBm）	≥ -3			
Modulation Frequencies(Hz)	1			
Connector Type	FC/PC (interchangeable SC,ST,P/N,E2000)			
General Specifications				
Data Storage	1000 measurements per wavelength Totaled 4000 measurements			
Data Transmission	RS232			
Power Supply	NiMH chargeable battery / AC adapter			

Battery Life	Support ≥80 hrs for only OPM operation / ≥35 hrs for OPM and SLS together on one charge
Operating Temp.	0℃ to 50℃
Storage Temp.	-20℃ to 70℃
Relative Humidity	0 to 95% (non-condensing)
Weight	1.3 lbs (0.6kg)
Dimension (H×W×T)	7.7×3.9×1.7 inch (196×100×44mm)

Note:

(1) For 850nm, the lower limit of measurement range is -60 dBm.

Specifications subject to change without notice.

Ordering Information

Standard Configuration:

Instrument(including rechargeable battery), OTM data analysis software disk, Data transfer cable(RS232), AC adapter, Rubber boot, Compact carrying soft bag, Warranty card, CE/FCC certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number(P/N)	Part Description	Part Number(P/N)
3m, optical patch cord	AC-FJC-03-FC/FC	Fiber Connector Cleaner	AC-CLN-TAPE
50m, optical patch cord	AC-FJC-50-FC/FC	Connector Clean Stick	AC-CLN-STK
SC connector for LS	AC-CONN-SC-L	Ceramics core for LS	AC-FRL-C
ST connector for LS	AC-CONN-ST-L	Toolkit for soft bag	AC-PB-30
SC connector for PM	AC-CONN-SC-P-1000	Toolkit for luxury package	AC-PB-40
ST connector for PM	AC-CONN-ST-P-1000		

OTS-20/30 Multi-purpose Optical Talk Sets

——*An effective tool for field communication and test*

Description

The ShinewayTech® OTS-20/30 series are highly efficient tools for optical network field work, that integrate the functions of digital optical phone, stabilized laser source and optical power meter (for OTS-30 only) in one set. They are full duplex, portable, intelligent and multi-functional.



Designed to fully embody the user's needs in mind, the OTS-20/30 series can be widely used in optical fiber networks of digital data, telecommunication and cable TV for engineering construction, checking & testing, maintenance as well as optical fiber attenuation measurement.

With the functions of stabilized laser source and optical power meter, they can help the engineers at any two given points to complete the field testing within the shortest time. They are highly praised for its excellent quality, value and all-in-one feature.

FEATURES

- *Single fiber, full duplex*
- *Digital voice coding and decoding process to guarantee high-quality speech*
- *Multi-function, providing both stabilized laser source and optical power meter*
- *Large memory capacity (3200 measurements)*
- *PC software available for testing data collection and report generation*
- *Multiparty communication to extend the communication distance*
- *Together with Optical Clip-On Coupler, realizing online communications*
- *Compact size, lightweight, and damp, dust, shock proof*
- *Dual-way power supply system, auto recharging*
- *Auto off function conserving battery life*
- *CE, FCC, FDA certificates*

Technical Specifications

Model	OTS-20				OTS-30			
	A	B	C	D	A	B	C	D
Display	LED				LCD			
Optical Connector	Single Port				Dual Ports			
Talk Set Module								
Wavelength (±20nm)	1310	1550	1310	1550	1310	1550	1310	1550
Maxi.Transmission Range(Km)	110	160	130	180	110	160	130	180
Dynamic Range(dB)	≥40		≥45		≥40		≥45	
Emitter Type	FP-LD							
Spectral Width (nm)	≤5							
Laser Source Module								
Wavelength (±20nm)	1310	1550	1310	1550	1310	1550	1310	1550
Output Power(dBm)	≥-5		≥-1		≥-5		≥-1	
Modulation Frequencies(Hz)	2K				270, 1k, 2K			
Stability	±0.05 dB/15min; ±0.15dB/8hr							
Connector Type	FC/PC(Interchangeable SC,ST)							
Power Meter Module (for OTS-30 only)								
Detector Type	InGaAs							
Connector Type	FC/PC(Interchangeable SC,ST)							
Display Range (dBm)	-70 ~ +10 or -50 ~ +27							
Calibrated Wavelength (nm)	850,1300,1310,1550							
Accuracy	±0.25 dB (5%) @25°C&-10dBm							
Data Storage	4000 records							
Data transmission	RS-232							
General Specifications								
Power Supply	NiMH rechargeable battery(1600mA/h) / AC adapter							
Battery Life	Support ≥10 hrs continuous operation on one charge							
Operating Temp.	0°C to 50°C							
Storage Temp.	-20°C to 70°C							
Relative Humidity	0 to 95%(non-condensing)							
Weight	1.3 lbs(600kg)							

Dimension(H×W×T)	7.7×3.9×1.7 inch(196×100×44mm)

Note: Specifications subject to change without notice.

Ordering Information

Optical Talk Sets are purchased in pairs. Two units are required for communication.

Standard Configuration:
Instrument(including rechargeable battery), Headset, AC adapter, Rubber boot, Toolkit for soft bag, OTS data analysis software disk(for OTS-30), Data transfer cable(RS232)(for OTS-30), Warranty card, CE /FCC certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number（P/N）	Part Description	Part Number（P/N）
3m, optical patch cord	AC-FJC-03-FC/FC	Fiber Connector Cleaner	AC-CLN-TAPE
50m, optical patch cord	AC-FJC-50-FC/FC	Connector Clean Stick	AC-CLN-STK
SC connector for LS	AC-CONN-SC-L	Ceramics core for LS	AC-FRL-C
ST connector for LS	AC-CONN-ST-L	Multi-Party Cable	AC-CABL-Multi
SC connector for PM	AC-CONN-SC-P-300	Compact carrying soft bag	AC-PB-20
ST connector for PM	AC-CONN-ST-P-300	Toolkit for luxury package	AC-PB-40

OPM Optical Power Meter

— A cute tool for optical network test

Description

The ShinewayTech® OPM series of optical power meters are compact, lightweight and easy-to-use testing instruments for optical fiber network, with unique characteristics of quick testing. Widely favored for their quality, value, reliability, accuracy and safety.

The pocketsize OPM series can support accurate testing of single mode and multimode optical fiber systems, with features of large LCD display, damp and shock proof design and dual-way powering system. The internal microprocessor and linear amplifier technology ensure the long-time accuracy. Besides, OPM-2x has a large memory capacity of 3200 records and can transfer the measurement data to a PC for editing and printing.

Ideal for both laboratory and field applications by using concise function keys to implement quick, high accuracy testing. Under the situation of laboratory, LANs, WANs and CATV as well as long-distance optical network, the Optical Power Meters, together with ShinewayTech's Stabilized Laser Sources, can be used to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality.

Features

- *Pocketsize, large easy to read LCD display, easy to use*
- *Fast response, no warm up*
- *Measure up to six wavelengths through a single connector*
- *Direct loss measurement units in dB*
- *Absolute power measurement units in dBm and or μW*
- *Interchangeable fiber-optic adapters (FC, SC or ST)*
- *Dual-way powering system*
- *Damp, dust and shock proof design*
- *PC software available for testing data collection and report generation (only available for OPM-2x)*
- *Auto off function conserving battery life*
- *CE, FCC certificates*



Technical Specifications

Model		OPM-10			OPM-15			OPM-21			OPM-25		
		A	B	C	A	B	C	A	B	C	A	B	C
Calibrated Wavelength (nm) (1)		850,1300, 1310,1550			850,1300, 1310,1490,1550			850,1300, 1310,1490,1550			850,1300,1310, 1490,1550,1625		
Meas. Range (dBm)(2)	-70~+10	✓			✓			✓			✓		
	-50~+27		✓			✓			✓			✓	
	-60~+17			✓			✓			✓			✓
Functions		W/μW/dBm			W/μW/dBm/dB(REF)								
Data Storage		N/A						3000 records					
Data transmission		N/A						RS-232					
Detector Type		InGaAs											
Range of Use		Single/multiple mode fiber											
Connector Type		FC/PC (interchangeable SC,ST)											
Accuracy		±0.25 dB (5%) @25℃& -10dBm											
Resolution(dB)		0.01											
Auto Shut Off		5 minutes after last key has been depressed											
General Specifications													
Power Supply		9V Alkaline battery(450mAh) / optional 9V AC adapter											
Battery Life		≥40hrs. Typical operation with 9V Alkaline											
Operating Temp.		0°C to 50°C											
Storage Temp.		-20°C to 70°C											
Relative Humidity		0 to 95% (non-condensing)											
Weight		0.66 lbs (300g)											
Dimension(H×W×T)		5.7×2.9×1 inch (145×75×25mm)											

Note:

(1) Other wavelengh and measurement can customize.

(2) For 850nm, the lower limit of measurement range is -60 dBm.

Specifications subject to change without notice;

Ordering Information

Standard Configuration:

Instrument, 9V alkaline battery, OPM data analysis software disk(for OPM-21/25), Data transfer cable(for OPM-21/25), Rubber boot, Warranty card, CE certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number(P/N)	Part Description	Part Number
3 m, optical patch cord	AC-FJC-03-FC/FC	50 m, optical patch cord	AC-FJC-50-FC/FC
SC connector for PM	AC-CONN-SC-P-300	AC adapter for US	AC-ADPT-10-US
ST connector for PM	AC-CONN-ST-P-300	Compact carrying softbag	AC-PB-10

SLS Stabilized Laser Sources

— An excellent tool for optical network test

Description

The ShinewayTech® SLS series are pocketsize, lightweight, easy-to-use stabilized laser sources. Based on advanced technologies of precision laser control, the SLS models have been designed to provide high capability of laser source for engineering, R&D and equipment manufactures, and being favored for its quality, value, reliability and safety.



Ideal tools for optical network installation, trouble shooting and maintenance, with features of damp and shock proof design and dual-way powering system.

The SLS-2x series can provided a very stabilized optical signal at multi-wavelength, together with any of ShinewayTech's Optical Power Meters, can be used to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality.

Features

- *Pocketsize, easy to use*
- *Fast response, no warm up*
- *Damp, dust and shock proof design*
- *Modulation in CW and modulated frequencies*
- *Single/dual/triplex wavelength selectable*
- *Interchangeable fiber-optic adapters (choice of FC, SC or ST)*
- *High stabilized output of optical signal*
- *Dual-way powering system*
- *Auto off function conserving battery life*
- *CE, FCC, FDA certificates*

Technical Specifications

Model	SLS-10				SLS-21		SLS-25		
	A	B	C	D	A	B	A	B	C
Wavelength (±20nm)	850	1310	1550	1625	1310/1550	850/1300	650/1310/1550	1310/1550/1625	1310/1490/1550
Display	LCD								
Optical Connector	Single Port						Dual Ports		
Output Mode	1Hz@650nm; CW, 270Hz, 1KHz, 2KHz@others								
Emitter Type	FP-LD@650,850,1300,1310,1550nm; DFB-LD@1490,1625nm								
Connector Type	FC/PC（interchangeable SC，ST）								
SpectrumWidth	≤ 5nm								
Output Power	≥ -3dBm@650nm; ≥ -10/-7dBm @ 850/1300nm ≥ -10/-7/-3/0dBm@1310/1490/1550/1625nm								
Stability	±0.05dB/15min								
	±0.10dB/8hr@ 1310/1490/1550/1625nm; ±0.15dB/8hr@ 850/1300 nm								
Range of Use	Multi/Single Mode Fiber								
Auto Shut Off	5 minutes after last key has been depressed								
General Specifications									
Power Supply	9V Alkaline battery(450mAh) / optical 9V AC adapter								
Battery Life	≥20hrs. typical operation with 9V Alkaline								
Operating Temp.	0°C to 50°C								
Storage Temp.	-20°C to 70°C								
Relative Humidity	0 to 95%(non-condensing)								
Weight	0.66 lbs (300g)								
Dimension (H×W×T)	5.7×2.9×1 inch (145×75×25mm)								

Note: Specifications subject to change without notice.

Ordering Information

Standard Configuration:

Instrument, 9V alkaline battery, Rubber boot, Warranty card, CE certificate, Certificate of Calibration, User's manual

Optional Accessory:

Part Description	Part Number(P/N)	Part Description	Part Number(P/N)
3 m, optical patch cord	AC-FJC-03-FC/FC	Ceramics core for LS	AC-FRL-C
SC connector for LS	AC-CONN-SC-L	AC adapter for US	AC-ADPT-10-US
ST connector for LS	AC-CONN-ST-L	Compact carrying softbag	AC-PB-10

VLS/VLP Visible Laser Source/Pen

Description

The ShinewayTech® VLS/VLP is visible red laser source for finding breaks and tight bends in optical fibers. The VLS/VLP generates red laser and the visible red laser that escaping from optical fibers makes testing and finding breaks in LANs, verifying continuity, checking the validity of patch cables or looking for cracked fiber in splice cases, bad connectors, tight bends in fiber cable.

Besides, it is also regarded as a perfect complementary tool for OTDR, due to its capability of finding breaks in the blink area of OTDR.



Features

- *Pocket-size/pen-size, easy to use*
- *Fast response, no warm up*
- *CW/1 Hz mod.*
- *CE, FCC, FDA certificates*
- *One meter drop test*



VLP-15

Technical Specifications

Model	VLP-15	VLS-20A	VLS-20B
Wavelength (±20nm)	650		
Output Power (dBm)	≥ 0	≥ -3	≥ 3
Max.measurement Range (Km)	5	5	10
Modulation Frequencies(Hz)	1		
Connector Type	UPP	FC/PC(Interchangeable SC,ST)	
General Specifications			
Power Supply	one 1.5V Alkaline battery	9V Alkaline battery(450mAh) / optional 9V AC adapter	
Battery Life	≥10hrs	≥20hrs	
Weight	0.15 lbs (70g)	0.59 lbs(270g)	
Dimension	23×140mm (0.9×5.5inch) (Φ×L)	5.7×2.9×1 inch (145×75×25mm) (H × W × T)	

Note: Specifications subject to change without notice.

Ordering Information

VLS Standard Configuration:
Instrument, 9V alkaline battery, Rubber boot, Warranty card, CE certificate, Certificate of Calibration, User's manual

VLP Standard Configuration:
Instrument, 1.5V alkaline battery, Warranty card, CE certificate, Certificate of Calibration, User's manual

Optional Accessory:

Part Description	Part Number(P/N)	Part Description	Part Number(P/N)
3 m, optical patch cord	AC-FJC-03-FC/FC	Ceramics core for LS	AC-FRL-C
SC connector for LS	AC-CONN-SC-L	AC adapter for US	AC-ADPT-10-US
ST connector for LS	AC-CONN-ST-L	Compact carrying softbag	AC-PB-10

OLT-20 Optical Loss Tester

——*A versatile tool for fast testing of optical networks*

Description

The ShinewayTech® OLT-20 series are multi-functional testing instrument for optic fiber networks. The useful applications include installation, routine inspection and daily maintenance of MAN, WAN and CATV systems as well as for lab test and research work.

The OLT-20 series integrate laser source module and power meter module in one set, which can perform power testing and link loss testing of optic fiber network conveniently. It can test within the shortest time and efficiently avoid the file mistakes caused by not matching of laser source and power meter. They are highly praised for its excellent quality, safety, value and fast testing features.

Features



- *Pocketsize, large LCD display*
- *Multi-wavelength measurement*
- *Direct loss measurement units in dB*
- *Link loss testing*
- *Absolute power measurement units in dBm or μW*
- *Modulation in CW and modulated frequencies*
- *Optional 270/1K/2K Hz Modulated frequencies*
- *Dual-wavelength output in single optic output*
- *Dual-way powering system including a 9V battery and AC adapter*
- *Low power indicator*
- *Auto off function conserving battery life*
- *CE, FCC, FDA certificates*

Specifications

Model	OLT-20					
	A	B	C	D	E	F
Laser Source Module						
Wavelength(±20nm)	1310/1550	850/1300	1310/1550	850/1300	1310/1550	850/1300
Output Power (dBm)	≥ -7	≥ -3	≥-7	≥ -3	≥-7	≥ -3
Spectral Width(nm)	≤ 5					
Emitter Type	FP-LD					
Stability	±0.05 dB/15min ±0.10dB/8hr@1310/1550nm；±0.15dB/8hr@850/1300nm					
Modulation Frequencies (Hz)	270，1K，2K optional					
Connector Type	FC/PC（interchangeable ST，SC）					
Optical Power Meter Module						
Detector Type	InGaAs					
Measurement Range (dBm)	-70 ~ +10		-50 ~ +27		-60 ~ +17	
Accuracy (25℃& -10dBm)	±0.25					
Resolution (dB)	0.01					
Calibrated Wavelength (nm)	850, 1300, 1310,1490, 1550, 1625					
General Specifications						
Power Supply	9V Alkaline battery / optional 9V AC adapter					
Operating Temp.	0℃ to 50℃					
Storage Temp.	-20℃ to 70℃					
Relative Humidity	0 to 95%（Non-condensing）					
Weight	0.66lbs (300g)					
Dimension(H×W×T)	5.7×2.9×1 inch (145×75×25mm)					

Note: Other calibrated wavelength can be also ordered.

Specifications subject to change without notice.

Ordering information

Standard Configuration:

Instrument, 9V alkaline battery, Rubber boot, Warranty card, CE certificate, Certificate of Calibration, User's manual

Optional Accessory:

Part Description	Part Number	Part Description	Part Number
3 m, optical patch cord	P/N:AC-FJC-03-FC/FC	Ceramics core for LS	P/N:AC-FRL-C
SC connector for LS	P/N:AC-CONN-SC-L	SC connector for PM	P/N:AC-CONN-SC-P-300
ST connector for LS	P/N:AC-CONN-ST-L	ST connector for PM	P/N:AC-CONN-ST-P-300
AC adapter for US	P/N:AC-ADPT-10-US	Compact carrying softbag	P/N:AC-PB-10

OFI-20 Optical Fiber Identifier

——*An efficient tool for fiber identifying*

Description



The ShinewayTech® OFI-20 series are handheld, easy-to-use optical test instruments that identify optical fibers without any damage by detecting the optical signals being transmitted through the fibers. By non-destructive macro-bend detection technology & mechanism damp technology, it avoids opening the fiber at the splice point for identification and interrupting service.

The OFI-20 can accurately detect the optical signals, signal directions and the presence of modulated tones. It can test all kinds of fibers, including fibers of 250μm and 900μm and Ribbon as well as jacketed fibers of 2mm and 3mm.

With its wide dynamic range, OFI-20 can efficiently identify the wide-spectrum signals, such as signals in CATV system and EDFA. Therefore it can be used in all the physical layer testing of SONET/SDH & DWDM systems.

Features

- *Handheld, easy to use*
- *Equipped with corresponding adapter for bare fiber and tail fiber*
- *Intensity display of optical signal*
- *Low battery indication*
- *Buzz indication function*
- *Display of transmission direction of light*
- *Identification of various signal frequency: 270Hz, 1kHz, 2kHz*
- *CE, FCC certificates*

Technical Specifications

Model	OFI-20B
Wavelength	800~1700nm
Type of Detector	InGaAs
Signal Type	CW、270Hz±10%、1kHz±10%、2kHz±10%
LED Display	Signal, direction, frequency (270Hz,1kHz,2kHz), intensity (5 class), Low battery
Detect Sensitivity(1)	Over -55dBm
Fiber Type	250μm, 900μm, Ribbon 2mm, 3mm Jacketed Fiber
Typical Loss	H 0.25～H 0.9: 0.1dB H 2.0～H 2.5: 0.5dB H 2.5～H3.0: 1.0 dB
General Specifications	
Power Supply	9V Alkaline battery
Battery Life	≥16hrs
Operating Temp.	0°C to 50°C
Storage Temp.	-20°C to 70°C
Relative Humidity	0 to 95% (non-condensing)
Weight	0.44 lbs (200g)
Dimension (H×W×T)	7.8×3.1×2.6 inch (200×80×40mm)

Note:

(1)Detect sensitivity is a typical value tested at the wavelength of 1310 and 1550nm.

Specifications subject to change without notice.

Ordering Information

Standard Configuration:

Instrument, 9V alkaline battery, Optical clamp, Screwdriver, Strap, Compact carrying softbag, Warranty card, CE certificate, Certificate of Calibration, User's manual

MLS-20 Multi-wavelength Laser Source

—A powerful tool for optical network test

Description



The ShinewayTech® MLS series are powerful, pocketsize, lightweight, easy-to-use stabilized laser sources with higher customer value. Based on advanced technologies of precision laser control, the MLS models have been designed to provide high capability of laser source for engineering, R&D and equipment manufactures in optical network.

Ideal tools for both laboratory and field applications, with features of damp and shock proof design and dual-way powering system, the MLS series can be widely applied under the situation of laboratory, LANs, WANs and CATV as well as long-distance optical network. Besides, the internal microprocessor and linear amplifier technology ensure the long-time accuracy.

The MLS series can provided a very stabilized optical signal at several kinds of wavelength, together with any of ShinewayTech's Optical Power Meters, can be used to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality.

Besides, the MLS series contain a 650nm visible red laser source for finding breaks. It generates red laser and the visible red laser that escaping from optical fibers makes testing and finding breaks in LANs, verifying continuity, checking the validity of patch cables or looking for cracked fiber in splice cases, bad connectors, tight bends in fiber cable.

Features

- *Multi-wavelength selectable*
- *Nearly all kinds of wavelengths in optical network are supported*
- *Easy-to-use visible laser source for finding breaks*
- *Modulation in CW and modulated frequencies*
- *Modulation frequencies in 270,1K, 2KHz (1Hz@650nm)*
- *1625nm laser source with optical power meter to measure upper limit loss in DWDM*
- *Dual-way powering system including a 1600mAh battery and an optional power adapter*
- *Low battery annunciator*
- *Auto off function conserving battery life*
- *CE, FCC, FDA certificates*

Specifications

Model	MLS-20A	MLS-20B	MLS-20C	MLS-20D
Wavelength (±30nm)	850,1300,1310,1550	650,850,1300, 1310,1550	850,1300,1310, 1490,1550	850,1300,1310, 1550,1625
Display Type	LED			
Emitter Type	FP-LD@650,850,1300,1310,1550nm; DFB-LD@1490,1625nm			
Spectrum Width	≤ 5nm			
Output Power	≥ -3 dBm@650nm; ≥ -7 dBm@850,1300,1310,1490,1550,1625nm			
Modulation Frequencies	1 Hz @650nm; 270Hz,1KHz, 2KHz, optional with @850,1300,1310,1490,1550,1625nm			
Stability	±0.05 dB/15min ±0.10dB/8hr @1310,1490,1550,1625nm; ±0.15dB/8hr @850/1300nm			
Connector Type	FC/PC(interchangeable SC,ST)			
Range of Use	Multi / Single Mode Fiber			
Auto Shut Off	five minutes after last key has been depressed			
General Specifications				
Power Supply	NiMH rechargeable battery (1600mAh) / AC adapter			
Battery Life	≥40 hours			
Operating Temp.	0℃ ~ 50℃			
Storage Temp.	-20℃ ~ 70℃			
Relative Humidity	0 to 95% (non-condensing)			
Weight	1.3 lbs (600g)			
Dimension (H × W × T)	7.7×3.9×1.7 inch (196×100×44 mm)			

Note: Specifications subject to change without notice; the wavelength and output power can be specially customized.

Ordering Information

Standard Configuration:

Instrument(including rechargeable battery), AC adapter, Rubber boot, Compact carrying soft bag, Warranty card, CE certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number(P/N)	Part Description	Part Number (P/N)
3m, optical patch cord	AC-FJC-03-FC/FC	Ceramics core for LS	AC-FRL-C
SC connector for LS	AC-CONN-SC-L	ST connector for LS	AC-CONN-ST-L

ORL-20 Optical Return Loss Tester

— An excellent tool for optical network test

Description

The ShinewayTech® ORL-20 series are integrated testers for optic fiber network, with the features of handheld, intelligent, and multi-functional.



The ORL-20 models combine the function of Optical Return Loss, Laser Source and Optical Power Meter. Besides measuring return loss and conducting the measurement of absolute and relative power value, it also can activates self-testing system to measure optical loss of optic fiber cable and passive device, perfect for verifying polish quality of connectors, measuring link return loss, field installation, routine inspection and maintenance of optic telecom and CATV as well as for lab test and research work.

The ORL-20 series have a large memory capacity and can transfer the testing data to a PC by associated software for analyzing, reporting and printing. Its multi-functional kitbag is more convenient for field use and laboratory testing. The ORL-20 series are favored for its strong integrated functions, outstanding quality, value, stability and safety.

Features

- *Support quick test, intelligent operation*
- *Graphic interface, large LCD display*
- *Single/multi-mode optical fiber return loss test*
- *Relative/absolute power measurement*
- *Measurement units in dB, dBm and W (or mW)*
- *Large memory capacity (2000 measurements)*
- *RS-232 data upload port*
- *PC software for test data analyzing, graphic drawing and reporting*
- *Both continuous wave (CW) and modulated frequencies modes*
- *Auto test of optic fiber loss*
- *Draw curve of power value changing*
- *Optical power alarm function*
- *Damp, dust and shock proof design, ideal for field operation*
- *Interchangeable fiber-optic adapters (FC, SC or ST)*

- *Dual-way powering system, auto recharging*
- *Low battery indicator and auto recharging display*
- *CE, FCC, FDA certificates*

Technical Specifications

Model	ORL-20A	ORL-20B	ORL-20C	ORL-20D
Return Loss Module				
Wavelength（±20nm）	1310/1550		1550/1625	
Emitter Type	FP-LD		FP-LD; DFB-LD	
Connector type	FC/APC			
Output Power（dBm）	≥ -5			
Stability	±0.05 dB/15min; ±0.10 dB/8hr			
ORL Dynamic Range（dB）	65			
ORL Accuracy（dB）	±0.5 dB@0～50dB; ±1.0 dB@50～60dB			
ORL Resolution(dB)	0.1			
Modulation Frequencies(Hz) (1)	270，1K，2K			
Optical Power Meter Module				
Measurement Range (dBm)	-70 ~ +10	-50 ~ +27	-70 ~ +10	-50 ~ +27
Detector Type	InGaAs			
Connector type	FC/PC (interchangeable SC, ST)			
Calibrated Wavelength (nm)	850, 1300,1310,1490,1550,1625			
Accuracy（25℃& -10dBm）	±0.25 dB (5%)			
Resolution(dB)	0.01			
General Specifications				
Data Storage	2000 measurements			
Data transmission	RS232			
Power Supply	NiMH chargeable battery/AC adapter			
Battery Life	≥35 hrs for only return loss operation / ≥80 hrs for only power meter operation/ ≥35 hrs for whole function			
Operating Temp.	0℃ to 50℃			
Storage Temp.	-20℃ to 70℃			
Relative Humidity	0 to 95% (non-condensing)			
Weight	1.4 lbs (0.65kg)			
Dimension (H×W×T)	7.7×3.9×1.7 inch (196×100×44mm)			

Note: (1)For Laser Source Module only.

Specifications subject to change without notice

Ordering Information

Standard Configuration:

Instrument (including rechargeable battery), APC optical reference cable, ORL data analysis software disc, Data transfer cable (RS232), AC adapter, Rubber boot, Compact carrying softbag, Warranty card, CE certificate, Certificate of Calibration, User's manual.

Optional Accessory:

Part Description	Part Number(P/N)	Part Description	Part Number(P/N)
SC connector for LS	AC-CONN-SC-L	Fiber Connector Cleaner	AC-CLN-TAPE
ST connector for LS	AC-CONN-ST-L	Connector Clean Stick	AC-CLN-STK
SC connector for PM	AC-CONN-SC-P-1000	Ceramics core for LS	AC-FRL-C
ST connector for PM	AC-CONN-ST-P-1000	Toolkit for softbag	AC-PB-30
Toolkit for luxury package	AC-PB-40		

OCI-20 Optical Connector Inspector

Description

The ShinewayTech® OCI-20 is a portable fiber optic connector inspector for both bench top and fiber optic network installation technicians. The OCI-20 allows the technician to physically view each fiber optic adapter and connector within the network and eliminate the possibility of poor quality or improper cleaning.

The OCI-20 offers excellent magnification and has a Liquid Crystal Display (LCD) designed for easy viewing. The unit is light weight, has a rechargeable battery pack and a durable carrying case to accommodate portability.

For versatility, the OCI-20 has a full line of accessory options that include SC, FC, LC, and MU male and female connector tips. These allow the technician to adapt to numerous types of hybrid fiber optic connectors and adapters.

The OCI-20 provides the technician with an essential tool for the deployment and maintenance of new and existing fiber optic networks.

Feature

- *Single-handed Operation*
- *Easy and fast focus operation*
- *Standard video output: NTSC or PAL*
- *Optional interchangeable male/female connector tips that include SC, LC, MU, FC, change out in seconds*
- *Portable set with a charger and rechargeable batteries*
- *Zoom from 160x to 260x (on 3.5" monitor)*
- *Drop tested up to 1 meter (3.2 feet)*
- *Slim body and anti-slip grip design*
- *FCC Class B, FDA Class 1*



Specification

Model	OCI-20
Field of Vision	400μm×300μm
Resolution	≤1.5μm
Focus	Manual adjustment, 2mm max travel
LCD	3.5"; TFT-LCD
LCD Size	105×90×45mm(when closed); Brightness/Contrast adjustable
Handset Size	Ø32×175mm
Connector Tips	Tips for SC/PC, FC/PC, LC/PC connectors are included in standard package
Power Supply	9.6V battery packs(last 4 hours) or AC adapter
Operation Temp.	0℃ ~ 50℃

Ordering Information

Standard Configuration:

Handset, LCD monitor set(with a battery box as the base), AC adapter, Carrying Case (Metal), Tip & Guide for 2.5mm female connectors (FC, SC), Tip & Guide for 1.25mm female connectors (LC, MU), 2.5mm APC male connectors, Warranty card, CE certificate, User's manual

OVA-10 Optical Variable Attenuator

— The most affordable choice in the market

Description

The ShinewayTech® OVA-10 is a compact, easy-to-use variable attenuator for reducing the power level of an optical signal.

No power supply needed ,idea tool for field work, with features of compact size, stable performance and shock proof design.

Used for single mode fiber together with laser source and power meter.

Features

- *Pocket-size, easy to use*
- *Operating by the single rotary knob*
- *Mechanized Machining, compact and stable*
- *Damp, dust and shock proof design*
- *Interchangeable fiber-optic adapters (choice of FC, SC or ST)*



Technical Specifications

Model		OVA-10
Wavelength(nm)		1100~1650nm
Residual Attenuation(dB)	Max.	1.0
Attenuation Range(dB)	Min.	60
Resolution (dB)	Max.	0.10
Optical Return Loss(dB)	Min.	55
Polarization Sensitivity(dB)	Max.	0.15
Optical Power(mW)	Max.	500
Connector Type		FC/PC (interchangeable SC,ST)
Range of Use		Single mode fiber
General Specifications		
Operating Temp.		-15°C to 70°C
Storage Temp.		-40°C to 80°C
Relative Humidity		0 to 95% (non-condensing)
Weight		0.66 lbs (300g)
Dimension (H × W × T)		5.7×2.9×1 inch (145×75×25mm)

Note: Specifications subject to change without notice.

Ordering Information

Standard Configuration:
Instrument, FC/PC adaptor, Rubber boot, Warranty card, Certificate of Calibration, User's manual

Optional Accessory:
SC adaptor, ST adaptor

OFS-60 Optical Fiber Fusion Splicer

The ShinewayTech® OFS-60 series adopt high-speed image processing technology and special precision-positioning technology, automatically finish the whole process of fiber fusion in 10 seconds typically, LCD monitor displays all steps of fiber fusion clear at a glance.

Widely used for SM and MM Quartz Fiber with diameter 125μm, coating layer diameter 0.2～1.5mm and bare fiber length 16mm more or less.

Ideal tools for construction and maintenance of fiber and cable in both field and laboratory applications.

Description

- *Both X and Y axis display*
- *Large multiple & visible fiber core*
- *Turn-over display screen to use conveniently*
- *Inner light to set fiber at night*
- *Auto check end-face of fiber*
- *Auto calculate splicing loss*
- *Auto select suitable fusion program*
- *Small bulk and light weight & alternating /Direct Current available*
- *Screen menu for simple operation*
- *Concave weatherproof cover & Max. wind velocity of 15m/s*



Technical Specifications

Model	OFS-60
Applicable Fibers	SM,MM,DS,NZDS
Cladding Diameter	80-150μm
Coating Diameter	100-1000μm
Fiber Cleaved Length	10mm with coating diameter of 250μm or less. 16mm with coating diameter of 250 to 1000μm.
Actual Average Splice Loss	SM:0.02dB;MM:0.01dB;DS,NZDS:0.04dB
Splice Time	Typical 10sec. with standard SM fiber.
Return Loss	≥60dB
Splicing Modes	8 user programmable modes and up to 10 modes for reference(factory predetermined setting) and 2 auto-testing modes.
Splice Loss Estimate	Available
Storage of Splice Result	The last 5000 results to be stored in the internal memory.
Fiber Display	X/Y simultaneously always
Magnification	200x
Viewing Method	Two CMOS cameras and 5 inch color LCD monitor.
Operating Condition	0 to 5000m above sea level,0 to 95%RH and -10 to 50℃ respectively.
Mechanical Proof Test	2N(standard)
Tube Heat Time	Typical 60sec. with standard 60mm protection sleeve.
Applicable Protection Sleeve Length	60mm, 40mm and a series of micro sleeves.
No. of splice/heating with battery	Typical 50 cycles with OFS-1-26L7
Power supply	Three method:1,Use power supply model OFS-1-26L7(inner li-ion battery ,100-240V AC adapter, work and charge simultaneity); 2,Use power supply model OFS-1-26AC (100-240V AC adapter); 3,Outer power supply adapter, car cigarette lighter or storage cell(10.5-14.5V,4A)
Terminals	RS-232,VIDEO
Wind protection	Max. wind velocity of 15m/s.
General Specifications	
Operating Temp.	-10℃ ~ 50℃
Storage Temp.	-40℃ ~ 60℃
Weight	10.1 lbs (3.7kg)
Dimension (H x W x T)	7.3×7.1×6.8inch (185×180×172mm)

Ordering information

Standard Configuration:

Instrument, Power supply module(OFS-1-26L7), AC cord, Spare electrodes(one pair), Cooling tray, Screen cover, Carrying case, Warranty card, User's manual

Optional Accessory:

Part Description	Part Number	Part Description	Part Number
Electrodes	P/N:AC-OFS-E	V-groove(coupler)	P/N:AC-OFS-V
Fiber cleaver	P/N:AC-OFS-21	Blade	P/N:AC-OFS-B
Multi-function Power Supply	P/N:AC-OFS-NFA-20	Protection sleeves	P/N:AC-OFS-PS

2. About Shinewaytech

ShinewayTech is a young, vigorous and innovative high-tech enterprise, incorporated in October 2000. At present we offers advanced products and total solutions in areas of optical communications network testing and maintenance. These products are marketed mainly to telecommunications carriers and network service providers around the world. These customers use our handheld optical testing products for installation and maintenance, monitoring and troubleshooting applications.

Proceeding from the corporate culture of "Trustful pragmatism; Persisting innovation; Pursuing excellence", ShinewayTech will continuously offer cost effective products and solutions to the global customers.

Vision of the Company

ShinewayTech ---- Dependable Partner for Future Networks

Spirit of the Company:

"Trustful pragmatism; persisting innovation; pursuing excellence"

Our Commitment:

Continuously offering advanced products and sound service at highest efficiency, and to enable the success of customers

Our Cooperative Strategy:

Open and cooperative system, flexible cooperation ideas, and pragmatic cooperation attitude

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