



Fiber Optic Measurement & Maintenance Equipment

Content

1 OTDR-X000	OTDR Series	2
2	Fusion Splicer	5
3 OPM-300	Optical Power Meter	8
4 POPM-300	PON Optical Power Meter	9
5 OLS-300	Optical light source.....	10
6 OM-300	Optical Multi-meter.....	11
7 VFL-3105	Pen-type Visual Fault Locator.....	12
8 OFI-100	Optical Fiber Identifier	13
9 TK-10	Tools Bag.....	14
10 VM-100	Video Microscope	15
11 CLE-BOX	Fiber Optic Cleaner Box.....	16
12	Fiber Optic Cleaner Pen.....	17
13 SLM-100	Signal Level Meter	17

1 OTDR-X000 OTDR Series



OTDR-3200 Series



OTDR-2000N Series



OTDR-5600 Series



OTDR-6000N Series

Model	OTDR-3200S	OTDR-3200D	OTDR-2000N	OTDR-5600
Wavelength	1550nm	1310nm/1550nm	1310nm/1550nm	1310nm/1550nm
Fiber Type	Single-Mode	Single-Mode	Single-Mode	Single-Mode
Dynamic Range	22dB	24/22dB	28/26dB	32/30dB
Measurement range	50-60KM	50-60KM	60-80KM	80-100KM
Event dead zone	3m		1m	



Attenuation dead zone	8m	10m	
Attenuation measurement	±0.05(dB/dB)		
Accuracy	± (1m+ sample interval +0.005%×distance)	±(0.75m+ Sampling interval +0.005%× Test distance)	
Reflection measurement	±3dB	±5dB	
Pulse width	3ns~10us		
Data storage	≥600 testing curves	≥800 testing curves	
OTDR Trace Format	SOR		
VFL output	650nm±20nm, ≥10mW	650nm±20nm, ≥2mW	650nm±20nm, ≥5mW
LS output	≥-5dBm	/	≥-5dBm
OPM output	-50dBm~+26dBm	/	-50dBm ~+26dBm (Replaceable:-70dBm~+6dBm)
Display	3.5 inch color LCD with touch screen	3.5 inch color LCD with touch screen	5.8 inch color LCD with touch screen
Communication Port	Micro USB	USB	USB, mini-USB, 10M/100M Ethernet
Optical output port	FC/PC (can be interchanged to SC or ST)		
Power supply	AC/DC adapter:		
	AC input: 100V~240V		
	Power frequency: 50Hz~60Hz		
Internal lithium battery	3.7V, 4000mAh	8.4V, 6700mAh	



Working hours of battery	>12 hours	>8 hours
Other feature	Support TF card, RJ45 Cable Length Measurement(300m), EVENT MAP, RJ45 Sequence, RJ45 Cable Tracker(Additional purchase detector), Flashlight	/
Working Temp.	-5°C~50°C	
Storage Temp.	-20°C~70°C	
Dimensions	173mm*82mm*37mm	208mm*110mm*56mm
Weight	<0.35kg	<1.1kg

Model	OTDR-6000N	OTDR-6001N	OTDR-6002N	OTDR-6003N
Wavelength	850/1300nm	1310/1550nm, 850/1300nm	1310/1550nm	1310/1490/1550nm
Fiber Type	MM	SM/MM	SM	SM
Dynamic Range	26/28dB	SM:37/35dB MM: 26/28dB	35/33dB	37/35/35dB
Measurement range	80-100KM	SM:120-140KM MM:80-100KM	80-100KM	120-140KM
Event dead zone	1m	1m	1m	0.8m
Attenuation dead zone	6m			
Attenuation measurement	±0.05(dB/dB)			
Accuracy	±(0.75m+ Sampling interval +0.005%× Test distance)			
Reflection measurement	±3dB			



Pulse width	5/10/50/160/320/ 500/ 1000/ 5000/ 10000/ 20000 (ns)
Data storage	≥2000 testing curves
OTDR Trace Format	SOR
VFL output	≥5mW
LS output	≥-5dBm
OPM output	+26dBm~-50dBm (Replaceable: +6dBm~ -70dBm)
Display	5.8 inch color LCD with touch screen
Communication Port	USB, mini-USB,10M/100M Ethernet
Optical output port	FC/UPC (can be interchanged to SC or ST)
Power supply	AC/DC adapter:
	AC input: 100V~240V
	Power frequency: 50Hz~60Hz
Internal lithium battery	8.4V, 6700mAh
Working hours of battery	>10 hours
Working Temp.	-5°C~50°C
Storage Temp.	-20°C~70°C
Dimensions	227mm*160mm*70mm
Weight	<1.1kg

2 Fusion Splicer

2.1 FS-600H



Item	Parameters
Model	FS-600H
Applicable fibers	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655)
Fiber cleaved length	10 ~16mm (Coating diameter<250μm) 16mm(Coating diameter250~1000μm)
Fiber diameter	Cladding diameter:80 ~150μm , Coating diameter:100 ~1000μm
Auto focusing	Available
Fiber aligning method	Core aligning, clad aligning, manual aligning
Average splice loss	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04dB(NZDS)
Splicing time	Typical 9 sec, with standard SM fiber
Heating time	Typical 36 sec
Applicable sleeves	60mm, 40mm and a series of micro sleeves
Tension test	2N(option)
Electrode life	5000
Battery capacity	Typical 400 cycles (splice and heat)
Monitor	5.1 inch TFT color monitor
Terminal	USB 1.1 and VGA , software upgrade via USB interface
Operating condition	0 ~ 5000m above sea level, 0 ~ 95%RH and -10~50°C, respectively, Max. wind velocity of 15m/s
Splicing mode	Auto ,normal
Fiber cleaved angle threshold set	0.1 ~ 10.0 °C , 0.1°Cstep
Power supply	Li-battery 11.8V , AC100-240V DC12.6V/5.0A

Dimension	L169*W152*H155mm
Weight	2.4kg, 2.9kg(with battery)

2.2 FS-88



Item	Parameters
Model	FS-88
Applicable fibers	SM(Single mode), MM(Multi-mode), DS(Dispersion shift), NZDS(Non zero dispersion shift)
Alignment	Core alignment, Cladding alignment, Fine Alignment
Applicable Optical Fiber Diameter	Cladding Diameter: 90~150μm, Coating diameter:200~1000μm
Applicable Optical Fiber Cable Diameter	2mm, 3mm, 4mm, 6mm
Applicable Sleeve Length	60mm, 45mm, 40mm(FP-03)
Average splice loss	0.02dB(SM),0.01dB(MM),0.04dB(DS),0.04dB(NZDS),0.04db(B IF/UBIF)
Return loss	Better than 60dB
Splicing time	9sec(typical parameter) /7 the sec (fast mode)
Heating time	Fusion-Protection Sleeves 14s Fast heating (customizable)
Heating temperature	Below 240°C(customizable)
Automatic Heating	Automatic fiber identification & Heating when close cover
Tension test	2N(option)
Monitor	4.3 inches colorized LCD, Support in both Chinese and English, Spanish, Russian, French, Portuguese and other display
Optical Fiber Magnification	X/Y:180 times, X or Y:350 times

Times	
Data Interface	USB 2.0
Splice results storage	10000 groups of the latest records
Operating condition	0 ~ 5000m above sea level, 0 ~ 95%RH and -10~50°C, respectively, Max. wind velocity of 15m/s
Power supply	11.1V Lithium battery, 13.5V/5A power adapter
Battery	Typically work 200 cycles (Splicing / Heating), Full charge 3Hours, Recharge Cycle: 500 times, 5200mA Li-battery
Dimension	L166*W140*H130mm
Weight	1.89kg(with battery)

3 OPM-300 Optical Power Meter



Model	OPM-300A	OPM-300B
Calibration Wavelength(nm)	800~1700	
Detector type	InGaAs	
Detector Size(mm)	0.3	
Measurement Range(dBm)	-70+10	-50+26
Uncertainty (dB)	±0.2(5%)	
linearity (dB)	0.01	
Display resolution(dB)	0.03	
Frequency ID (Hz)	270 330 1K 2K	
Wave ID (nm)	850,980,1300,1310,1490,1550,1625	
Resolution(dB)	Linear 0.1% or Non-linear 0.01dBm	
Communication Port	USB	

Connector	FC/PC (Interchangeable FC/SC/ST connectors can be optional)
Alkaline battery	3AAA 1.5V or Li battery (9V) optional
Power Adapter(V)	8.4
Battery Operating time (h)	240 without backlight
Operation Temperature(°C)	-10(°C) +60
Storage Temperature(°C)	-25(°C)+70
Dimension(mm)	172*82*33
Weight(g)	310
Package	Optical Power Meter, 3pcs 1.5V Batteries, Power Adapter(optional), User Manual, USB cable, CD, Cotton Stick and Soft Carrying Case.

4 POPM-300 PON Optical Power Meter



Model	POPM-300		
Measurement wavelength	1310	1490	1550
Pass Zone(nm)	1260~1360	1470~1505	1535~1570
Measurement Range(dBm)	-40~+10	-40~+10	-40~+20
Isolation1310nm(dB)	-	>40	>40
Isolation 1490nm(dB)	>40	-	>30
Isolation 1550nm(dB)	>40	>40	-
Measurement Accuracy			
Connatural uncertainty(dB)	0.5		
Connatural uncertainty(dB)	<±0.25		
Linearity(dB)	0.1		
Passing through insertion Loss(dB)	<1.5		

Normal Optical Power Meter Module	
Display	128*64
Measurement Unit	dB/dBm/ xW
Resolution (dB)	0.01
Power Supply	Li battery (9V)
Fiber Type	SM
Measurement Range(dBm)	-10~60°C
Store Range(dBm)	-25~70°C
Size (mm)	210 x 115 x 55

5 OLS-300 Optical light source



Model	OLS-300A	OLS-300B	OLS-300BB	OLS-300C	OLS-300D	OLS-300E
Wavelengths(nm)	1310/1550nm	1310/1490/1550nm	1310/1490/1550nm	850/1310/1550nm	1300/1310/1550nm	850/1300/1310/1550nm
Emitter Type	FP-LD,LED or others please specify					
Output Power(dBm)	-6~-7(1310/1550nm),>0 (650nm)					
Output Stability	+0.05dB/15mins; +0.1dB/ 8hours					
Modulation Frequencies	CW / 2(650nm) / 270, 1K,2K (1310nm/1550nm)					
Optical Connector	FC/PC (Interchangeable FC/SC/ST connectors can be optional)					

Power Supply	Alkaline Battery(3 AA 1.5V batteries)
Battery Operating Time(hour)	45
Operating Temperature(oC)	-10 ~ +60
Storage Temperature(oC)	-25 ~ +70
Dimension(mm)	172*82*33
Weight(G)	295

6 OM-300 Optical Multi-meter



	OM-300A	OM-300B	OM-300C
Model	Power Meter + Light Source	Power Meter+ Laser Source	Power Meter + Laser Source+ Light Source
Power meter			
Measuring Range	-70~+10/-50~+26 dBm		
Detector type	InGaAs		
Uncertainty	±0.2(5%) dB		
Calibration wavelength	850,980,1300,1310,1490,1550,1625 nm		

Display precision	0.01dB
Light Source	
Output wavelength	1310/1550/650(other optionl) nm
Accuracy	±10 nW(5%)
SM Output Power	>= -7dBm
MM Output Power	>= -7dBm
Laser Source	
Output Power	1,5,10,20,30(optionl) mW
General	
communication	RS232
Operating Temperature	-10~+60
Storage Temperature	-25~+70
Battery Operating Time	>15h
Display	2.4TFT LCD
Dimension	190*100*48mm
Power Supply	Li battery (9V)
Weight	280g

7 VFL-3105 Pen-type Visual Fault Locator



Model	VFL-3105
Central Wavelength	650nm ±10nm
Emitter Type	FP-LD

Output Power	1mW	5mW	10mW	20mW	30mW	40mW
	2-3Km	5Km	10Km	15-20Km	20-30Km	30-40Km
Optical Connector	2.5mm universal connector For 1.25mm connectors, FC (Male)-LC (Female) convertor can be optional on customer requests					
Operating Model	Both CW and Pulse available					
Pulse Frequency	2~3Hz					
Power Supply	2 AA alkaline batteries					
Battery Operating Time	1mw≥65hour; 3mw≥50hour; 10mw≥15hour Test with Panasonic LR6AA ALKALINE battery					
Operating Temperature	-10~+45(°C)					
Storage Temperature	-40~+70(°C)					
Dimension (mm)	15*180					
Weight	120g(Without battery)					

8 OFI-100 Optical Fiber Identifier



Model	OFI-100
Range of identifiable wavelength	800~1700nm
Type of probe	InGaAs
Type of adapter	Φ0.25mm (for bare fiber); Φ0.9mm, Φ2.0mm, Φ3.0 mm(for pigtail fiber)
Modulation frequency	CW, 270Hz, 1K Hz, 2K Hz
Signal direction indicator	Left/right LED indicator
Signal direction testing range	-46~10dBm (1310nm) , -50~10 dBm (1550nm) (CW/0.9mm bare fiber)
Signal power testing range	-50~10 dBm(CW/0.9mm bare fiber)

Signal frequency indicator	270Hz, 1KHz, 2KHz	
Frequency testing range (Average value)	Φ0.9, Φ2.0, Φ3.0	-30~0 dBm (270Hz,1KHz)
		-25~0 dBm (2KHz)
	Φ0.25	-25~0 dBm (270Hz,1KHz)
		-20~0 dBm (2KHz)
Insertion loss (Typical value)	0.8dB (1310nm); 2.5dB (1550nm)	
Alkaline battery	3V (2 pcs. 1.5V 7# dry cells)	
Continuous working hours of battery	10hrs	
Working temperature	0~+50°C	
Storage temperature	-10~+70°C	
Dimensions	196*30*26 (mm)	
Weight	190g	

9 TK-10 Tools Bag



No.	DESCRIPTION	QUANTITY
1	Optical Fiber Cleaver	1
2	Black Bag	1
3	Alcohol Dispenser	1
4	Miller forceps	1

5	Rubberstripping pliers	1
6	Kevlar scissors	1
7	Optical Power Meter	1
8	Optical Light Source(1310/1550nm)	1
9	10mw Pentype Visual Fault Locator	1
10	Diagonal pliers	1

10 VM-100 Video Microscope



Items	Parameter
Magnification	400x (9" Monitor) 250x (3.5" Monitor)
Resolution Ratio	Resolution Ratio 0.5 um
Display Screen	3.5" TFT-LCD, 960x240 pixels
Video Output	NTSC / PAL
Power Supply	3.7V 4500mA / 5V 1A Li Battery
Weight	1.5kg
Work/Storage	-20°C~+50°C, -30°C~+60°C
Standard Accessories	Inspection Probe x1 3.5" monitor x1 25-U-M x1 125-U-M x1 25-U-F x1 LC-U-F x1 Recharger; Manual; Carrying bag; Li Battery
Optional Accessories	25-A-M; 125-A-M ; SC-A-F ; FC-A-F; LC-A-F AV-USB 2.0 Converter

Application

Tips Type	Function Description
25-U-M	FC/SC/ST/E2000 patch cord UPC connector
125-U-M	LC/MU patch cord UPC termination
25-A-M	FC/SC/ST/E2000 patch cord APC connector
125-A-M	LC/MU patch cord APC termination
25-U-F	FC/SC/ST/E2000 UPC bulkhead
LC-U-F	LC UPC bulkhead
SC-A-F	SC APC bulkhead
FC-A-F	FC APC bulkhead
LC-A-F	LC APC bulkhead

11 CLE-BOX Fiber Optic Cleaner Box



Features

- Special non-alcohol superfine fiber
- Well handled and antistatic
- Friendly using ,efficient cleaning
- Easy to replace the tape, no pollutions
- Cleaning time 500+
- Level of cleaning is 100

Specifications

- Applications: SC,FC,ST,MU,LC,MPO,MTRJ (w/o pins)
- Dimensions: 115mm×79mm×32mm
- Cleaning times: 500+ per box

12 Fiber Optic Cleaner Pen



CLEP-25: FC/SC/ST Cleaner Pen, universal 2.5mm, 800+ times;
 CLEP-125: LC/MU Cleaner Pen, universal 1.25mm, 800+ times.

13 SLM-100 Signal Level Meter



Signal Level Meters Comparison Table		
Model No	Constellation	Main Parameter
SLM-110/110D	No	Double channel , A/V, C/N, Average Power, Trunk line Voltage,
SLM-200/200D	No	MER, BER , Tilt, A/V, C/N, Average Power, Trunk line Voltage,
SLM-120/120DQ	Yes	Spectrum, MER, BER , Tilt, Channel Power, A/V, C/N, Average Power, Trunk line Voltage



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SLM-130/13DQ	Yes	Advanced spectrum, Full automatic scan , MER, BER , Tilt , V/A,C/N , Average Power ,Channel Power, Trunk line Voltage, Threshold, Alarms
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Model	SLM-120DQ	SLM-200/200D
Digital DVB		
Frequency scope	47~870MHz 5~870MHz (with D series)	
Modulation	DVB-C/ITU-T	
Support	64QAM/128QAM/256QAM	64QAM/256QAM(option)
Digital average power	30dBuV ~ 110dBuV	
Precision	±2dB	
Symbol rate	1MS/S-7 MS/S	
Modulate error rate(MER)	22dB ~ 39dB	
Bit error rate(BER)	RS 1E-3~1E-9	
Analog TV		
Frequency scope	47~870MHz 5~870MHz (with D series)	
Level	20dBuV ~ 120dBuV	
Precision	±1.5dB	
Channel scan	150	
Spectrum /Frequency	Bandwidth2.5MHz	/
Other Functions	Spect, Scan, Tilt, C/N, Voltage and so on	/
Power supply		
Battery	7.2V/1500mAH rechargeable battery	
AC Supply	AC 100V-220V 50Hz-60Hz	
Working time	6hrs	
Charging time	3hrs	

Model No	SLM-110/110D
Frequency / channel	
Frequency scope	47~870MHz 5~870MHz (with D series)
Channel	U.S. Standard Channel USA STD-CATV U.S. digital standard channels USA STD-CATV
Frequency accuracy	±50 * 10E-6 (20 °C ±5 °C)
Level measurement	



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Measuring range:	30dBuV ~ 120 dBuV
Measurement accuracy	± 2 dB (20 °C ± 5 °C)
Resolution	0.5dB
Carrier-to-noise ratio measurement	
Measuring range	20dB ~ 50 dB
Signal input range	≥ 85 dBuV
Measurement accuracy	± 3 dB (20°C ± 5 °C)
Voltage measurement	
Input range	1 ~ 100V (AC / DC)
Measurement accuracy	± 2 V
Resolution	1V
Power supply	
battery	7.2V/1500mAH rechargeable battery
AC Supply:	AC 100V-220V 50Hz-60Hz
Working time	6hrs
Charging time	3hrs

Model No	SLM-130/130DQ
Frequency / channel	
Frequency scope	47~870MHz 5~870MHz (with D series)
Channel	T7 to CATV 135
Frequency Resolution	10 KHz
MODULATION	QAM Annex (A) 16, 32, 64, 128 and 256 QAM Annex (B) 64 and 256
Symbol Rate	1 to 7Mbps
Analog CATV	AM, FM
Bandwidth	1 MHz to 9.9 MHz
Level measurement	
Measuring range	-35dBmV ~ 60dBmV
Measurement accuracy	± 2 dB
Resolution	0.1dB
Scan	peak value demodulation
Input Impedance	75
Carrier-to-noise ratio measurement	
Input range	0dBmV ~45dBmV
Accuracy	+2 dBmV
Voltage measurement	
Input range	10 ~ 80V (AC/DC)
Measurement accuracy	± 2 V



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Resolution	0.1V
Power supply	
battery	7.2V/1500mAH rechargeable battery
AC Supply	AC 100V-220V 50Hz-60Hz
Working time	4hrs
Charging time	3hrs