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**SIS**

Source Industrial Supply

## **OPTICAL FIBER TEST INSTRUMENTS**

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## Palm OTDR

### MDR-100/200



#### Specification

Wavelength	1310±20nm / 1550±20nm
Dynamic Range	32dB / 30dB
Event Dead Zone	< 1.5m
Attenuation Dead Zone	< 8.0m
Pulse Width	5ns, 10ns, 30ns, 100ns, 300ns, 1.0us, 2.5us, 10us
Loss Resolution	0.001dB
Distance Resolution	0.1m
Connector	FC (or SC)
VFL	650±20nm, <1dBm, FC/UPC
Data Storage	300 traces
Display	3.5 inch TFT color LCD
Interface	USB
Battery	Built-in rechargeable battery
Working Time	>10 hrs (Bellcore TR-NWT-001138)
Net Weight	0.9 Kg
Dimension	230mm×120mm×60mm

#### Accessories

AC/DC adaptor	1
User manual	1
Carrying bag	1
USB cable	1
Software CD	1
Calibration certificate	1

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## OPTICAL POWER METER

		
BPM100 (+6 ~ -70dBm)	APM820 (+6 ~ -70dBm)	EPM30T (+6 ~ -70dBm)
BPM101 (+26 ~ -50dBm)	APM830 (+26 ~ -50dBm)	EPM30C (+26 ~ -50dBm)

### Specification:

	BPM100/101	APM820/830	EPM30T/C
Calibrated Wavelengths	850nm / 1300nm / 1310nm / 1490nm / 1550nm / 1625nm		
Accuracy *	± 0.2dB		
Resolution	0.01dB		
Connector	FC & 2.5mm UPP	FC,SC,ST & 2.5mm UPP	FC&2.5mm UPP or customise
Automatic Power Off	No operation in 10 minutes (can be cancelled), Low battery energy		
Build in VFL (Optional)	1mW or 10mW VFL	NO	1mW or 10mW VFL
Data Storage	NO	NO	YES
Battery Charge	Yes		
Battery	AA * 2 batteries		AA * 3 batteries
Battery Life	Above 100 hours		
Size	160mm * 75mm * 32mm	140mm * 62mm * 31mm	190mm * 90mm * 40mm
Weight	About 180g	About 150g	About 400g

\* at 20±3°C, CW, with FC connector, -10dBm

\* For 850nm/1300nm, the Min. Power measurement is -60dBm or -40dBm

### Accessories

Standard	Carrying bag	1
	User's manual	1
	Calibration certification	1
Optional	AC/DC adaptor	1

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## LASER SOURCE

			
BML223 (2 wavelengths)	ADL230 (2 wavelengths)	ELS10	AML390
BML230 (3 wavelengths)	ATL310 (3 wavelengths)	1~3 wavelengths	2~5 wavelengths + 650nm

### Wavelength Option:

Multimode		Single mode				650nm VFL	
M8	M3	S3	S4	S5	S6	SU	LU
850nm	1300nm	1310nm	1490nm	1550nm	1625nm	1mW	10mW

Example:

**BML223-S3S5**, it has 1310nm,1550nm

**ELS10-S3S4S5**, it has 1310nm, 1490nm, 1550nm

**AML390-M3M5S3S4S5-SU**, it has 650nm(1mW), 850nm, 1300nm, 1310nm, 1490nm, 1550nm

### Specification:

	BML223 / BML230	ADL230 / ATL310	ELS10	AML390
Stabilization*	±0.05dB / 1 hour; ±0.1dB / 8 hours			
Output Power	> - 6.0 dBm @ 1310nm/1490nm/1550nm/1625nm			
	> -10.0 dBm @ 850nm/1300nm			
Modulation	270Hz, 1KHz, 2KHz			
Connector	FC/PC or customise			
Auto Power Off	No operation in 10 minutes (can be cancelled), Low battery energy			
Battery Charge	Yes			
Operate Time	Above 16 hours			
Battery	AA * 2 batteries			AA * 3 batteries
Size	160mm * 75mm * 32mm	140mm * 62mm * 31mm	190mm * 90mm * 40mm	190mm * 95mm * 45mm
Weight	About 180g	About 150g	About 400g	About 400g

\* After 5 minutes warm-up, 20±3°C, CW, FC connector

### Accessories

Standard	Carrying bag	1
	User's manual	1
	Calibration certification	1
Optional	AC/DC adaptor	1

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## VISUAL FAULT LOCATOR

		
BML200 (>1mW, 5KM)	AVL720 (>1mW, 5KM)	BML204S (>1mW, 5KM)
BML201 (>10mW, 10KM)	AVL730 (>10mW, 10KM)	BML204L (>10mW, 10KM)
		BML204L-15 (>15mW, 13KM)
		BML204L-20 (>20mW, 15KM)

### Specification:

	BML200/201	AVL720/730	BML204S/L
Wavelength	650nm ± 20nm		
Glint	2Hz		
Connecting Adapter	2.5mm UPP		
Auto Power Off	No operation in 10 minutes (can be cancelled), Low battery energy		NO
Battery Charge	Yes		NO
Battery	AA * 2 batteries		
Size	160mm * 75mm * 32mm	140mm * 62mm * 31mm	170mm * 24mm Dia.
Weight	About 170g	About 150g	About 80g

### Accessories

Standard	Carrying bag	1
	User's manual	1
	Calibration certification	1
Optional	AC/DC adaptor	1

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# PON POWER METER

## EPN70/80



### Model Option:

	EPN70	EPN80T	EPN80C	EPN80V	EPN80V-10
VFL (1mW)				√	
VFL (10mW)					√
OPM (+6 ~ -70dBm)		√			
OPM (+26 ~ -50dBm)			√		

### Specification:

Measurement Range	1310 nm: +10 ~ - 35 dBm
	1490 nm: +10 ~ - 50 dBm
	1550 nm: +25 ~ - 45 dBm
Accuracy *	± 0.5dB (burst signal)
	± 0.2dB
Threshold sets	10
Data Storage	100
Connector	SC/PC ( or customise )
Auto Power Off	No operation in 10 minutes (can be cancelled), Low battery energy
Battery Charge	Yes
Manual Calibration	Yes
Operate Time	Above 36 hours
Power Supply	3 * AA batteries or AC/DC adapter
Size	190mm * 90mm *40mm
Weight	About 450g

### Accessories

Standard	Carrying bag	1
	User's manual	1
	Calibration certification	1
Optional	AC/DC adaptor	1

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# FIBER IDENTIFIER

## AFI400/420



### Specification:

	AFI 400	AFI420S	AFI420L
Wavelength Range	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		
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	1mW	10mW
Storage Temperature	-20 -- +60 °C, < 90%RH		
Operating Temperature	-10 -- +50 °C, < 90%RH		
Power Supply	AA * 2		
Size	230mm * 45mm * 45mm		
Weight	About 200g		

\* at 20±3°C, 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

### Accessories

Standard	Carrying bag	1
	User's manual	1
	Calibration certification	1

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## OPTICAL MULTIMETER

		<b>N/A</b>
BMU300 (OPM+OLS)	AMU900 (OPM+OLS+VFL)	EPV33 (OPM+OLS+VFL)

### Model Option:

Multi-mode		Single mode				650nm VFL	
M8	M3	S3	S4	S5	S6	SU	LU
850nm	1300nm	1310nm	1490nm	1550nm	1625nm	1mW	10mW

	T	C
Range of power meter	+6 ~ -70dBm	+26 ~ -50dBm

Example: AMU900T-LU-S3S4S5, it has the following modules:

Power meter range: +6 ~ -70dBm

Laser source: 1310nm,1490nm,1550nm

Visual fault locator: 10mW

OLS Module	Output Power	> - 6.0 dBm @ 1310/1490/1550/1625nm, > -10.0 dBm @ 850/1300nm		
	Stabilization*	±0.05dB / 1 hour; ±0.1dB / 8 hours		
	Modulation	270Hz, 1KHz, 2KHz		
	Connector	BMU300: FC/PC	AMU900: customise	
VFL module	Glint	2 Hz		
	Connector	2.5mm UPP		
OPM module	Accuracy *	± 0.2dB		
	Calibrated Wavelengths	850nm / 1300nm / 1310nm / 1490nm / 1550nm / 1625nm		
	Tone Detector **	Yes		
	Connector	BMU300: FC&2.5mm UPP	AMU900: FC,SC,ST&2.5mm UPP	
	Auto Power Off	No operation in 10 minutes (can be cancelled), Low battery energy		
	Battery Charge	Yes		
	Power Supply	AA * 2		AA * 3
	Size	190mm * 95mm * 45mm	190mm * 95mm * 45mm	190mm * 90mm * 40mm
	Weight	About 200g	About 380g	About 400g

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# OPTICAL TALK SET

## AOT500



### Specification:

Wavelength	A: 1310nm, B: 1550nm
Operating Style	Full duplex communication
Output Power	> -5dBm
Fiber Type	SM
Dynamic Range*	SM fiber: 45dB
Dynamic Distance*	SM fiber: > 120 km
Connecting Adapter	FC / PC
Battery Charge	Optional
Operate Time	Above 12 hours
Power Supply	2 * AA
Size	190mm * 75mm * 40mm
Weight	About 200g * 2

### Accessories:

Standard	Carrying box	1
	User's manual	1
	Earphone and Mic	2
	Calibration certification	1

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## OPTICAL VARIABLE ATTENUATOR

BVA610 (mechanical) (0~60dB)	EVA50-60 (digital) (0~60dB)
	EVA50-80 (digital) (0~80dB)

### Specification:

	BVA610	EVA50-60	EVA50-80
Wavelength	1310nm, 1550nm	1310nm, 1490nm, 1550nm	
Attenuating Range	60 dB	60 dB	80 dB
Fiber Type	SM		
Attenuating Mode	mechanical	digital	
Display	LED	LCD	
Resolution	No	0.1 dB	
Connector	FC / PC (or customise)		
Insertion Loss*	< 3.0 dB	< 2.5 dB	
Uncertainty	No	± 0.5 dB	
Repeatability*	No	± 0.2 dB	
Auto Power Off	No operation in 10 minutes (can be cancelled), Low battery energy		
Data Storage	No	Yes	
Battery Charge	Yes		
Power Supply	3 * AA or AC/DC adaptor	3 * AA or AC/DC adaptor	
Size	170mm * 105mm * 55mm	190mm * 90mm * 40mm	
Weight	About 460g	About 450g	

### Accessories:

Standard	Carrying bag	1
	User's manual	1
	Calibration certification	1
Optional	AC/DC adapter	1

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# E1 BER TESTER

## DEB100E



### Specification:

Bit Rate	2084Kb/s ± 50ppm
Connector	Standard: 75 ohm unbalanced, high resistance input impedance,
	Optional: 120 ohm balanced
Input Sensitivity	0 ~ - 43dB
Circuitry Code	HDB3
Frame Type	Framed N*64Kbps / unframed
Frame Pattern	PCM30, PCM30CRC, PCM31, PCM31CRC
Test Pattern	Random pseudo code: 2 <sup>15</sup> -1, 2 <sup>11</sup> -1
	Fixed code: 1111, 0000, 1010
Alarm Insertion And Check	LOS, LOF, AIS, RA
Error Code Insertion	Single, 10E-3, 10E-6
Result Analysis	G.821, G.826 and M.2100
Storage	99 results
Data Transfer	Option: RS232 to PC
Power Supply	AA * 4 batteries or AC/DC adaptor
Size	200mm(L) * 100mm(W) * 44mm(H)
Weight	About 440g

### Accessories:

Standard	AC/DC adaptor	1
	75 ohm cable BNC-BNC	2
	User's manual	1
	Calibration certification	1
	Carrying Bag	1

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# Insertion / Return Loss Tester

## GRL100



### Specification:

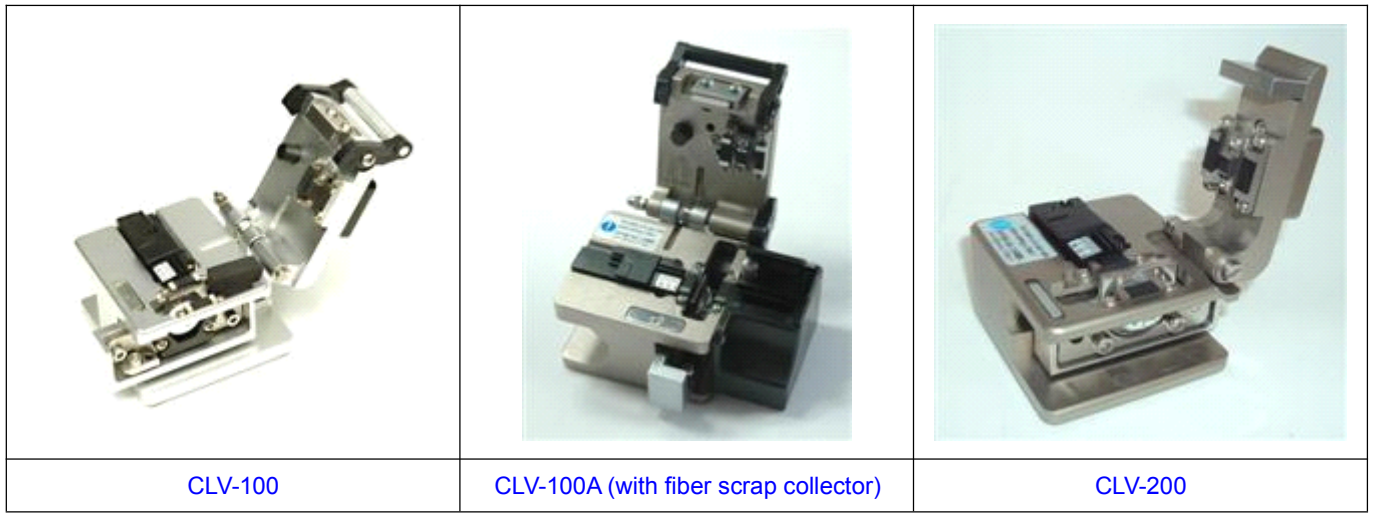
Return Loss Testing Module	Calibration Wavelength	1310nm / 1550nm
	Test Range	0~75 dB
	Accuracy	0~55dB: 0.4dB; 55~75dB: 1dB
	Display Resolution	0.001
	Connector	FC/APC
Insertion Loss Testing / Power Meter Module	Calibration Wavelength	850nm / 1300nm / 1310nm / 1490nm / 1550nm / 1625nm
	Test Range	+6 dBm ~ -80 dBm
	Accuracy	5%±0.1nW@1550nm (23°C±3°C)
	Display Resolution	0.001
	Connector	FC/SC/ST
Laser Source Module	Wavelength	1310nm / 1550nm
	Output Power	-2 dBm ± 0.5 dB
	Stability	±0.05dB / 15min (23°C±3°C)
Others	Power Supply	AC100~240V 50/60Hz
	Size	300mm(L) * 250mm(W) * 160mm(H)
	Weight	About 3.3 Kg

### Accessories:

Main Body	1
Power Supply Cable	1
User's Manual	1
Calibration Certification	1
FC / SC / ST Adaptor	1
Standard Patch Cord FC/APC-FC/APC	1
Standard Patch Cord FC/APC-FC/PC	1
FC/APC Adaptor	1

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## FIBER CLEAVER



### Specification:

	CLV-100	CLV-200	CLV-100A
Bare Fiber Diameter	125um		
Coating Fiber Diameter	250um, 900um		
Fiber Type	SM		
Cleaving length	250um: 9~16mm		
	900um: 10~16mm		
Blade Life	36000 fibers (1000 fiber x 3 height x 12 positions)		
Fiber Scrap Collector	NO	NO	YES
Size	75mm * 63mm * 61mm	62mm * 57mm * 51mm	95mm * 90mm * 65mm
Net Weight	About 380g	About 260g	About 420g

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## ELECTRODE & CLEAVER BLADE



FUJIKURA	FSM-40S, FSM-40S-B, FSM-40-F, FSM-40-PM	EL- 40
	FSM-50S/50R, FSM-60S/60R	EL- 50
FURUKAWA	S176CF, S176CR, S176LP	EL-176
	S177	EL-177
	S178	EL-178
SUMITOMO	TYPE-65M12, TYPE-65M8, TYPE-45S, TYPE-45M	EL-65
	TYPE-37, TYPE-HSB	EL-37
	TYPE-PM, TYPE-36	EL-36
	TYPE-39, TYPE-66	EL-39



FUJIKURA	CT-07	CB-07
FUJIKURA	CT-20	CB-30
	CT-30	
ILSINTECH	CI-01	
FURUKAWA	S324, S325	CB-324
SUMITOMO	FC-6S	CB-06

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