

S2112P PON Optical Time Domain Reflectometer

Multi-Functions: OTDR / OPM / LS / VFL / OFD / Event Map / OLT / Ethernet Test / Remote Test / File Management

Key Features

- Support PON network testing, penetrate 1:64 splitter
- Dynamic range up to 42dB, 0.5m ultra-short event blind zone
- Online detection, effective APD active protection
- Support fast charging protocol and power bank
- Ethernet test, support Ethernet remote test
- Mobile APP wireless operation
- Multi wavelength simultaneous test, automatic data storage
- 7 inch color LCD touch screen, button/ touch dual operation
- Integrate OTDR/OPM/LS/VFL/End Detection/Event Map/Optical Loss Test/Ethernet Test/Remote Test/File Management

Typical Applications

- FTTx test
- CATV network testing
- Access network testing
- LAN network testing
- Metro network testing
- Lab and factory testing
- Live fiber troubleshooting



Saluki S2112P series PON Optical Time Domain Reflectometer adopts 7 inch capacitance touch screen, which integrated 9 modules. With excellent intelligent hardware design, the accuracy of short fiber test and automatic test is higher. S2112P series can test 1:64 splitter. It is equipped with rich Ethernet test (Ping/PPOE, etc), support APP control.

S2112P series is used to test the optical fiber length, loss and connection quality, and used in the engineering construction, link maintenance test. It is mainly used in urban trunk, bone trunk network and metropolitan area network.

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Technical Specifications

PON OTDR							
Model	S2112P-PD1	S2112P-PS1	S2112P-PS2	S2112P-PT1	S2112P-PT2	S2112P-PT3	S2112P-PT4
Wavelength	1310nm±20nm 1550nm±20nm	1625nm ± 20nm (Filtered)	1650nm ± 5nm (Filtered)	1310/1550nm ± 20nm 1625nm ± 15nm (Filtered)			1310/1550nm ± 20nm 1650nm ± 5nm (Filtered)
Filter	/	High Pass >1595nm, Isolation >40dB 1270nm-1585nm	Bandpass 1650nm±7nm, Isolation >40dB (1650nm±10nm)	High Pass >1595nm, Isolation >40dB (1270nm-1585nm)			Bandpass 1650nm±7nm, Isolation >40dB (1650nm±10nm)
Max. Dynamic Range	37/35dB	38dB	38dB	38/36/36dB	40/38/38dB	42/40/40dB	38/36/36dB
Filter Type	G.652						
Event Blind Zone	0.5m						
Attenuation Blind Zone	3.5m						
PON Dead Zone	30m						
Measuring Accuracy	±(0.75m + Sampling interval + 0.0025% x Test distance)						
Test Range	0.1/0.5/1.25/2.5/5/10/20/40/80/125/260/420km						
Pulse Widths	3/5/10/20/30/50/80/100/200/300/500/800/1000/2000/3000/5000/8000/10000/20000ns						
Sampling Points	≥256k						
Sample Resolution	0.015m - 16m						
Loss Accuracy	0.03dB/dB						

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Loss Resolution	±0.001dB
Loss Threshold	0.01dB
Reflection Accuracy	±2dB
Optical Interface	FC/UPC (Interchangeable SC / ST)
File Format	SOR (standard format)
Loss Measurement Mode	4-point method / 5-point method
Laser Safety Level	Class II
Data Storage	Internal: 2GB (200,000 curves), External: 64GB
Refresh Rate	4Hz (typ.)
Data Interface	USB-A, Type-C port, RJ45 LAN 10/100MBit/s
OPM	
Wavelength Range	800nm - 1700nm
Connector	Universal FC/SC/ST
Measurement Range	-50dBm to +26dBm or -70dBm to +6dBm
Uncertainty	±5%
Calibration Wavelength	850/980/1300/1310/1490/1550/1625/1650nm
LS	
Laser Source	FP-LD
Wavelength	Consistent with OTDR output wavelength
Output Power	≥ -5dBm (SM fiber)
Mode	CW/270Hz/1kHz/2kHz
Stability	CW, ±0.5dB/15min (test after 15 minutes of preheating)
Connector	FC/UPC (Interchangeable SC / ST)
VFL	
Wavelength	650nm ±20nm
Standard Output Power	≥ 10mW

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Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC / ST)
The Optical Loss Test index refers to the above LS and OPM index.	

General Information

Display	7 inch color LCD touch screen, Resolution 800x480, English Interface
Battery	3.7V / 10400mAh Lithium battery
Power Supply	Type-C adapter: input 100V-240V, 50/60Hz output 5V/3A, 9V/2A, 12V/1.5A
Environment	Operating Temperature: -10 to +50°C / Storage: -40 to +70°C, Relative humidity: 0 - 95% non condensation
Dimension / Weight	215mmx160mmx50mm / ≤1.2kg

Standard Package

Num	Item	Qty
1	S2112P OTDR Host	1 Set
2	Power adaptor	1 PC
3	U Disk (containing client simulation analysis software)	1 PC
4	Data line	1 PC
5	OTDR SC adapter	1 PC
6	OPM SC adapter	1 PC
7	User manual	1 PC
8	Certificate of quality	1 PC
9	Alcohol clean cotton sheet	10 PC

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10	Leather knob	1 PC
11	Special backpack for instrument	1 PC

Attention: The OTDR interface type is standard FC/UPC, FC/APC optional if needed. Due to the need for improvement, the above contents are subject to change without notice.