

S2106X Optical Time Domain Reflectometer

Multi-Functions: OTDR / OPM / LS / VFL / OFD / Event Map / OLT

Key Features

- Less than 0.8m ultra-short event blind zone
- Dynamic range up to 45dB
- One button Automatic Test and Real Time Test
- Internal 8GB storage, automatic data storage
- Built-in Optical Power Meter Function (OPM)
- Built-in Fiber Visual Fault Locator Function (VFL)
- Built-in Optical Loss Test Function (OLT)
- Built-in Intelligent Optical Network Map Function (iONM)
- Built-in Optical Fiber End Face Detection Function (OFD)
- IP65 protection level, outdoor enhanced
- Unique function for Self-Diagnosis on test result
- 2 USB ports, Mini USB, 10M/100M Ethernet port
- 7-inch color LCD touch screen, button/ touch dual operation

Typical Applications

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



Saluki S2106X Optical Time Domain Reflectometer is a high performance multi-function test instrument designed for the FTTx network. The product has a range resolution of up to 0.05m and a ultra-short event blind zone of 0.8m. S2106X is an upgraded version with larger display, higher operation speed and more friendly UI.

This product integrates OTDR, light source, OPM, VFL, event map (iONM), OLT and OFD function all in one. It adopts touch and button dual operation mode. The product has rich external interface, which can realize remote control through Ethernet interface or two different USB interface for external USB flash drive, printer and data communication with PC.

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Technical Specifications

OTDR									
Item	S1	S2	S3	S4	T1	T2	F1	M1	SM1
Fiber Type	SMF							MMF	SMF/MMF
Wavelength (nm)	1310/1550				1310/ 1490/ 1550	1310/ 1550/ 1625	1310/ 1490/ 1550/ 1625	850/1300	850/1300/ 1310/1550
Max. Dynamic Range (dB) ①	35/33	38/36	42/40	45/43	38/36 /36	42/40 /40	37/35/ 35/35	26/28	26/28/35/33
Event Blind Zone ②	1m	1m	0.8m	0.8m	0.8m	0.8m	1m	1m	1m
Attenuation Blind Zone	5m	5m	4m	4m	4m	4m	5m	5m	5m
Measuring Accuracy	$\pm(0.75\text{m} + \text{Sampling interval} + 0.0025\% \times \text{test distance})$ (Refractive error are not included)								
Measurement Range	100m/500m/1.25km/2.5km/5km/10km/20km/40km/80km/125km/260km/420km								
Pulse Widths	3ns/5ns/10ns/20ns/30ns/50ns/80ns/100ns/200ns/300ns/500ns/800ns/1us/2us/3us/5us/8us/10us/20us								
Loss Accuracy	$\pm 0.001\text{dB}$								
Sampling Points	$\geq 256\text{k}$								
Sample Resolution	0.05m - 4m								
Loss Accuracy	$\pm 0.03\text{dB/dB}$								
Optical Interface	FC/UPC (Interchangeable SC, ST)								
File Format	SOR (standard format), PDF (analysis software)								

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Loss Analysis	4-point method / 5-point method
Laser Safety Level	Class II
Data Storage	≥12GB
Refresh Rate	3Hz (typ.)
Data Interface	2 USB ports, Mini USB, 10M/100M Ethernet port
IOR Range	1.0 - 2.0
Device Remote Control	By LAN
Distance Unit	m, km
Given Pass/ Fail Results	Yes
Bi-directional Analysis Function	Yes
Multitasking Function	Yes
OPM	
Wavelength Range	800nm - 1700nm
Connector	Universal FC/SC/ST
Measurement Range	-50dBm to +26dBm(标配)/-70dBm to +10dBm
Uncertainty	±5%
Resolution	≤0.01dB
Display Unit	dB, dBm
Calibration Wavelength	850/1300/1310/1490/1550/1625/1650nm
LS	
Laser Source	FP-LD
Wavelength	Consistent with OTDR output wavelength
Output Power	≥ -5dBm
Stability	CW, ±0.5dB/15min
Connector	FC/UPC (Interchangeable SC, ST)

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VFL	
Wavelength	650nm ±20nm
Standard Output Power	≥ 10mW
Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC, ST)
The Optical Loss Test index refers to the above LS and OPM index.	

NOTE:

- ① Test temperature is 25 ± 2 °C, the maximum pulse width, average time is more than 30s.
- ② Test conditions of Event Dead Zone are minimum range, minimum pulse width, reflection loss of optical fiber end surface (>45dB), typical value.

General Information

Display	7 inch color LCD touch screen,1024×600, English Interface
Battery	7.4V / 5200mAh Lithium battery, Max. 20 hours working time
Power Supply	AC/DC adapter: Input: 100V - 240V, 50/60Hz, 0.6A; Output: 12V - 19V, 1.5A
Environment	Operating Temperature: -10 to +50°C / Storage: -40 to +70°C, Relative humidity: 0 - 95% non condensation
Dimension / Weight	227mmx160mmx70mm / ≤1.2kg

Standard Package

Num	Item	Qty
1	S2106X OTDR Host	1 PC
2	AC/DC Power adaptor	1 PC

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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
10	Leather knob	1 PC
11	Special backpack for instrument (d)	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.