

# S2108 Optical Network Tester

**Multi-Functions: OTDR/ iONM/ OPM/ LS/ VFL/ MFT/ OFD/ OLT/ RJ45 Tracker/ Laser Ranging/ File Management/ Data Wireless Transmission/ Bluetooth/ WiFi/ Remote Assistance/ One-key Repair/ Camera**

## Key Features

- Wavelength range 850/1300/1310/1550/1625/1650nm
- Up to 45dB dynamic range, 0.8m ultra-short event dead zone
- Integrated WIFI, Bluetooth, IOT, GPS & Beidou functions
- Standard configuration functions, including OTDR, iONM, LS, VFL, OPM, Optical end face detection, Multi-core measurement, Optical loss test, File management, Data wireless transmission, RJ45 cable tracker, Laser ranging, Remote assistance, One-key repair, Camera, Bluetooth, WiFi, GPS&BDS (on developing)
- Data analysis on Cloud Platform or Android App
- Support smart Cloud Platform, 4G LTE SIM, Bluetooth and WiFi
- Support multi-tasks simultaneous operation
- IP65 protection level, outdoor enhanced
- Unique function for Self-Diagnosis on test result
- 7-inch color capacitive touch screen, automatic data storage

## Typical Applications

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



Saluki S2108 series Optical Network Tester is an intelligent high-precision optical network comprehensive tester with cloud wireless transmission, intelligent cloud platform and other functions.

S2108 series adopts 7 inch capacitive touch screen, supports multi-point touch and integrates 18 functional modules internally. Compared to previous versions, it supports smart cloud platform, iONM, Multi-core measurement, 4G LTE SIM, GPS, Bluetooth and WIFI; built-in 8G storage capacity, can store more than 200,000 test data, and test data can be uploaded to the cloud wirelessly; PDF reports can be generated on the device and transmit them to the mobile terminal via WiFi & Bluetooth. S2108 series supports multi-tasks simultaneous operation, and VFL, OPM, LS functions can run in the background.

No.367, Fuxing N. Rd.,105 Taipei,Taiwan Tel: +886.909 602 109

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## Technical Specifications

### ➤ OTDR

Model	S1	S3	S4	S5	P1F1	P1F2	P2F1	P2F2	T1F1	T1F2	T2F1	T2F2	M1	SM1	SM2
Fiber Type	SM												MM	SM/MM	
Wavelength (nm)	1310/1550				1625		1650		1310/1550/1625		1310/1550/1650		850/1300	850/1300/1310/1550	
Max. Dynamic Range (dB)	37/35	40/38	42/40	45/43	38	40	37	40	37/35	40/38	37/35	40/38	26/28	26/28/33	26/28/36
Event Blind Zone	0.8m												1.5m	1.5m/0.8m	
Attenuation Blind Zone	5m												6m	5m/6m	
Test Range	100m/300m/500m/1.25km/2.5km/5km/10km/20km/40km/80km/160km/260km/420km														
Pulse Widths	3ns/5ns/10ns/20ns/30ns/50ns/80ns/100ns/200ns/300ns/500ns/800ns/1μs/2μs/3μs/5μs/8μs/10μs/20μs														
Measuring Accuracy	± (0.75m + Sampling interval + 0.005% x Test distance)														
Sampling Points	3.2k - 320k														
Sample Resolution	0.03125m - 8m														
Loss Accuracy	≤ 0.05dB/dB														
Loss Resolution	0.001dB														
Loss Threshold	0.01dB														
Distance Resolution	0.001m														

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IOR	1.00000 - 2.00000, 0.00001 step
Reflection Accuracy	± 3dB
Data Archive	SOR (standard format)
Loss Analysis	4-point method / 5-point method
Laser Safety Level	Class II
Optical Interface	FC/UPC (Interchangeable SC, ST)
Refresh Rate	10Hz (max.)
Electronic Report	Generate PDF report directly on the device, and transmit to the mobile phone via Bluetooth.
Multitasking Function	Support
Connection Detection	Support
Remote Assistance	Support
One-key Repair	Support

## ➤ Optical Power Meter

Wavelength Range	800nm - 1700nm
Connector	Universal joint FC/SC/ST
Test Range	(-50dBm to +26dBm) or (-70dBm to +10dBm)
Uncertainty	± 5%
Resolution	≤0.01dB
Display Unit	dB, dBm
Calibration Wavelength	850/980/1300/1310/1490/1550/1625/1650nm
Frequency Detected	CW/270Hz/330Hz/1kHz/2kHz (use inner LS)

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Wavelength Identification	Support
Frequency Identification	Support
Data Acquisition	Support

## ➤ Stable Laser Source

Laser Source	FP-LD
Wavelength	Consistent with OTDR output wavelength
Output Power	-5dBm to +3dBm, adjustable power
Stability	CW, $\pm 0.5\text{dB}/15\text{min}$
Connector	FC/UPC (Interchangeable SC, ST)
Frequency Detected	CW/270Hz/330Hz/1kHz/2kHz
Wavelength Identification	Support
CW/Modulation Twins Mode Output	Support

## ➤ Visual Fault Location

Wavelength	650nm $\pm 20\text{nm}$
Standard Output Power	$\geq 10\text{mW}$
Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC, ST)
Laser Safety Level	Class III

## ➤ Laser Ranging

Test Range	0.05m - 40m
Accuracy	$\pm 2.0\text{mm}$
Laser Type	620nm - 690nm

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Laser Safety Level	Class II, <1mW
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## ➤ RJ45 Cable Tracker

Mode	Digital/Analog tracking
Test Distance	≥300m
Online Tracking	Support
Line Pair Tracking	Support

## ➤ Optical Loss Test

Wavelength	Consistent with LS output wavelength
Test Range	Consistent with OPM
Insertion Loss Test	Support

## ➤ General Information

Display	7 inch 1024×600 IPS TFT-LCD Multi touch capacitive touch screen
Battery	7.4V / 6400mAh lithium battery
Power Supply	AC/DC adapter: Input 100V-240V, 50/60Hz, 0.6A, Output 12V-19V, 3A
Data Storage	Internal: 8GB, ≥200,000 data
Port	2 USB-A, 1 Mini-USB, 1000M Ethernet port, RJ45 tracker port, 3.5mm audio port
Wireless Connection	WiFi, Bluetooth, GPS&Beidou
Dimension	252mm × 180mm × 72mm
Weight	1.5kg (including battery)
Camera	Support
Environment Condition	Operating Temperature: -10 to +50°C / Storage: -40 to +70°C, Relative humidity: 0 - 95% non condensation

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## Standard Package

Item	Name	Qty
1	S2108 host	1 Set
2	AC/DC power adapter	1 PC
3	Data line	1 PC
4	OTDR SC adapter	1 PC
5	OPM SC adapter	1 PC
6	Wire tracker receiver	1 PC
7	User manual	1 PC
8	Certificate of quality	1 PC
9	Special backpack for instrument	1 PC

## Options

Option No.	Item
S2108-01	SFED-01 USB Handheld Optical Fiber End Face Microscope (for OFD function)

*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.*