

# S2106S Optical Time Domain Reflectometer

Wavelength 1310/1550nm

## Key Features

- Dynamic range up to 26dB, 2.5m short event blind zone
- One button Automatic OTDR Test and Expert OTDR Test
- Unique RJ45 cable sequence/ cable length test and cable tracker
- LS support CW/ modulation mode output with adjustable output power
- Support multi-task operation, VFL and LS function can run in the background
- Unique function for self-diagnosis on test result
- One click screen capture, convenient to save the interface
- 4.3-inch color LCD touch screen, greater environment adaptability
- Quick boot-up, under 10 seconds, continuous test more than 12h
- 12 Multiple functions including Auto OTDR, Expert OTDR, event map, optical power meter, visual fault location, stable laser source, optical loss test, RJ45 cable tracker, RJ45 cable sequence, RJ45 cable length test, end face detection and flashlight

## Typical Applications

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



Saluki S2106S series OTDR adopts 4.3 inch capacitive touch screen and integrates 12 functions which can meet various test requirements in different occasions. OTDR has a maximum dynamic range of 26dB, 8G memory which can store more than 200,000 curves. It is equipped with 4000mAh lithium battery, intelligent power saving management, and supporting power supply and charging of the power bank. S2106S series OTDR are used to measure the length, loss, connection quality and other parameters of optical fiber. It is widely used in FTTx, secondary backbone network engineering construction, maintenance and emergency repair test, and production measurement.

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## Technical Specifications

OTDR				
Model	S2106S-S2	S2106S-S3	S2106S-F1 (live test)	S2106S-F2 (live test)
Type	G.652 SM			
Wavelength	1550±20nm	1310/1550 ±20nm	1310±20nm	1550±20nm
Max. Dynamic Range	24dB	26/24dB	26dB	24dB
Event Blind Zone	2.5m			
Attenuation Blind Zone	8m			
Ranging Accuracy	± (1m + Sample interval + 0.005% × Test distance)			
Test Range	500m/1km/2km/4km/8km/16km/32km/64km/100km			
Pulse Widths	3ns/5ns/10ns/20ns/30ns/50ns/80ns/160ns/320ns/500ns/800ns/1us/2us/3us/5us/8us/10us/20us			
Linearity	≤ 0.05dB/dB			
Sampling Points	16k - 128k			
Sample Resolution	0.05m - 8m			
Loss Resolution	0.001dB			
Loss Threshold	0.2dB			
Range Resolution	0.001m			
Refractive Index	1.00000 - 2.00000			
Reflection Accuracy	± 3dB			
Optical Interface	FC/UPC (Interchangeable SC, ST)			
File Format	SOR (standard format)			
Loss Analysis	4-point method / 5-point method			

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Laser Safety Level	Class II
Data Storage	8GB, ≥200,000 curves
Refresh Rate	3Hz (typ.)
Multi-tasking	Support
<b>OPM</b>	
Wavelength Range	800nm - 1700nm
Connector	Universal FC/SC/ST
Measurement 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 Identification	CW /270/330/1k/2kHz (use inner LS)
Wave Recognition	Support
<b>LS</b>	
Laser Source	FP-LD
Wavelength	Consistent with OTDR output wavelength
Output Power	≥ -5dBm
Stability	CW, ±0.5dB/15min
Connector	FC/UPC (Interchangeable SC, ST)
Mode	CW /270/330/1k/2kHz
Wave Recognition	Support
<b>VFL</b>	
Wavelength	650nm ±20nm
Standard Output Power	≥ 10mW
Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC, ST)
Laser Safety Level	Class III

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RJ45 Cable Tracker	
Mode	Digital tracking
Distance	≥ 300m
Online/Line Pair Tracking	Support
RJ45 Cable Length	
Test Distance	≥ 300m
Others	
Display	4.3 inch 800×480 IPS TFT-LCD Multi-point capacitive touch screen
Power Supply	AC/DC adapter 100V-240V, 50/60Hz, 0.6A; Output: 5V, 2A
Battery	3.7V / 4000mAh lithium battery, continuous >12h
Data interface	USB Type C
Weight	≤ 0.5kg (including battery)
Dimension	173mm × 109mm × 45mm
Environment	Operating Temperature: -10 to +50°C / Storage: -40 to +70°C, Relative humidity: 0 - 95% non condensation

## Standard Package

Num	Item	Qty
1	S2106S OTDR host	1 PC
2	AC/DC Power adaptor	1 PC
3	Data line	1 PC
4	Built-in TF-card (containing client simulation analysis software)	1 PC
5	SC/UPC adapter	1 PC
6	Wire tracker receiver	1 PC
7	User manual	1 PC

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8	Certificate of quality	1 PC
9	Alcohol clean cotton sheet	10 PC
10	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.*