# Hand-held High Performance OTDR

## SP-OTDR35X


**Shenzhen SPEEDWOLF Technology Co., Ltd.**

**2016. 06(Version 2)**

## Overview

SP-OTDR35X series are the compact multi -functional platform, which are specially designed for FTTx/WAN applications and can meet all test requirements of installers, contractors and service operators during network installation, construction, maintenance and troubleshooting. It is convenient and accurate for auto/manual testing, multi -wavelength testing and multi-functional analysis.

Whether you want to detect link layer in the construction and installation of optical network or proceed efficient maintenance and trouble shooting, SP-OTDR35X can be your best assistant.

## Multi-Function and High Performance OTDR Testing

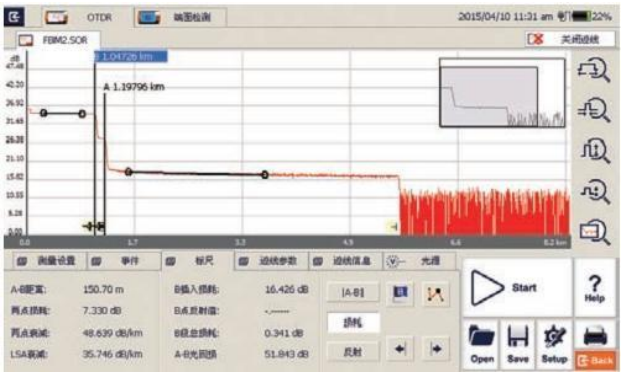
- Dynamic Range up to 50dB
- Short zone: EDZ 0.8m, ADZ 4.5m
- Auto/Manual test and analysis
- Multi-wavelength testing
- Visible laser source function
- In-Line test and through Splitter test(1625/1650nm with filter)
- OTDR Module up to four wavelengths, SM/MM Option
- Fault locating, fiber length/loss /return loss measurement, connector/ splice/ splitter/ macro bend/fiber -end detection
- LAN/WAN/FTTx application
- GR-196-CORE (.SOR) file format
- SOR and JPG file format
- Flexible file Naming

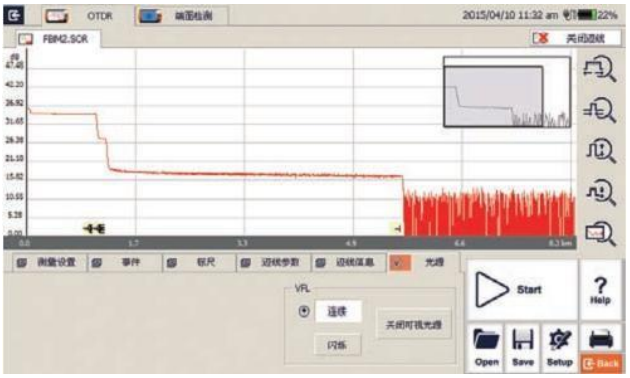
## Optimized Platform Performance

- Lightweight, 2.1kg
- 7 inch touch screen
- High strength protect horn
- Excellent Man -Machine interface for easy operation
- Damp-dust-shock proof

Shenzhen SPEEDWOLF Technology Co., Ltd.
A-14,Haide Building, Nanxin Road Nanshan District,Shenzhen,P.R.China
Email:am-us@speedwolf.net 0086-755-26400198/0086-0755-26400288 Fax:0086-755-26411001

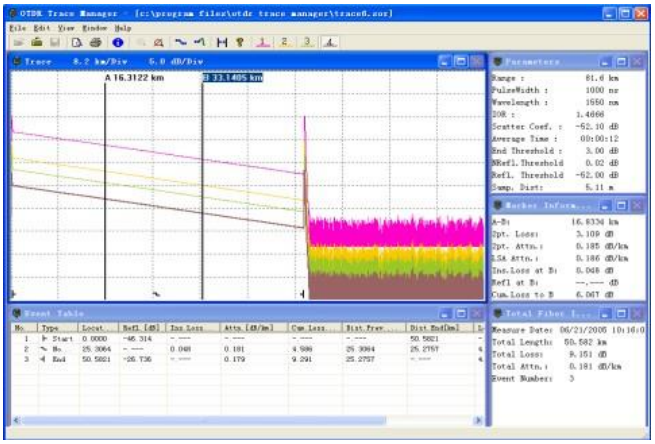
- Optimized power management: 10 hours continuous operation
- Fast power up and off with Windows CE
- Direct printing function(compatible with PCL printers)
- Remote/local control by PC

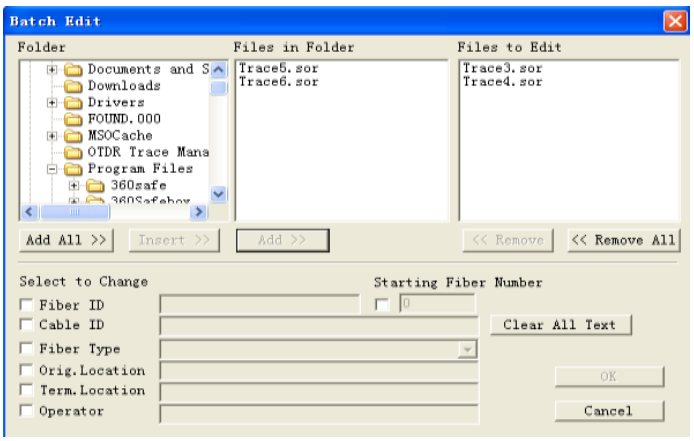




## PC Software

- Multi traces analysis
- Single/multi traces printing in one report
- Batch editing and printing
- Bidirectional traces analysis
- CSV report formats
- Remote control function



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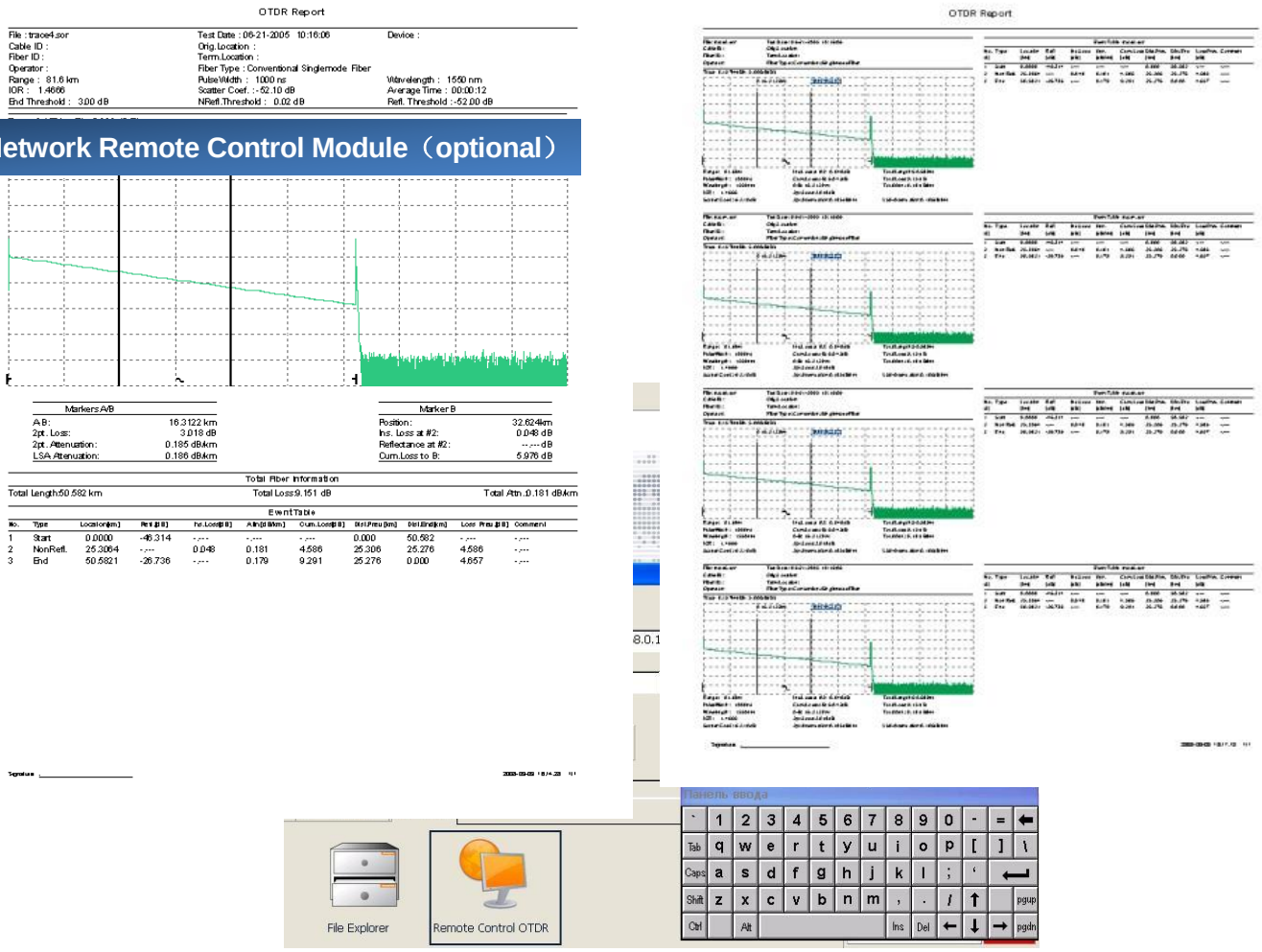
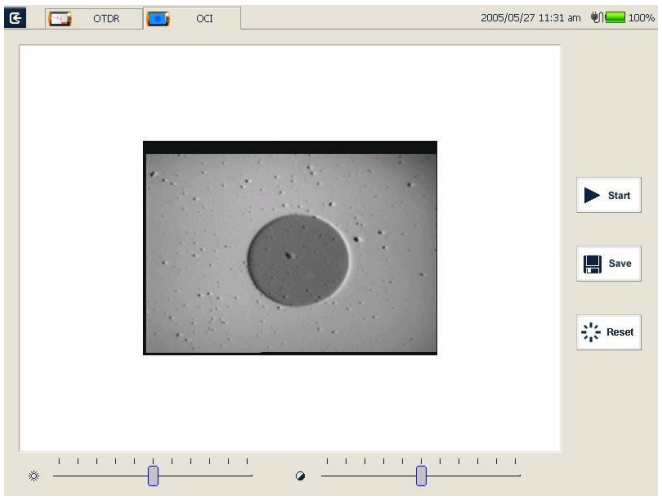
## Network Remote Control Module（optional）




## Optical Connector Inspector Module（optional）

- Focusing knob for fast focus
- Eye-safe and clear video viewing
- Interchangeable connector tips

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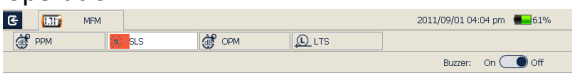
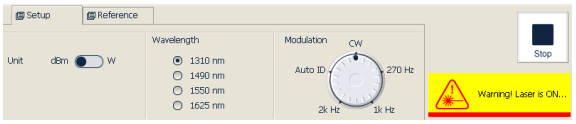
Email:am-us@speedwolf.net 0086-755-26400198/0086-0755-26400288 Fax:0086-755-26411001

## Stabilized Laser Source Module（optional）

- High precision and easy operation








## Optical Power Meter Module (optional)

- Multi-wavelength Calibration
- High Precision
- Convenient Operation




## Applications

- FTTX test with PON networks
- CATV network testing

- Access network testing
- LAN network testing
- Metro network testing

## Applications

| SP-OTDR35X Series | | | | |
|---|---|---|---|---|
| Display | 7 inch TFT Touch Screen (800×480) | | | |
| Connectivity | USB×2; 10/100Mbit/s RJ-45×1 | | | |
| Memory | 2GB | | | |
| Power Supply | Rechargeable Li-Ion Battery/AC Adapter | | | |
| Battery Life | 10 hours continuous operation | | | |
| Working Temp. | -20℃ - 50℃ | | | |
| Storage Temp. | -40℃ - 60℃ | | | |
| | | | | |
| Weight | 2.1kg | | | |
| Dimensions (L×W×H) | 290×175×75mm | | | |
| **OTDR Module** | **Wavelength (±20nm)** | **Dynamic Range(dB)[1]** | **EDZ (m) [2]** | **ADZ(m) [2]** |
| **SP-OTDR35X-S1** | 1310/1550 | 38/37 | 0.8 | 4 |
| **SP-OTDR35X-S2** | 1310/1550 | 45/43 | 0.8 | 4 |
| **SP-OTDR35X-S3** | 1310/1550 | 50/48 | 0.8 | 4 |
| **SP-OTDR35X-S4** | 1310/1550/1625 | 38/38/37 | 0.8 | 4 |
| **SP-OTDR35X-S5** | 1310/1550/1625 | 42/41/40 | 0.8 | 4 |
| **SP-OTDR35X-S6** | 1310/1550/1625 | 38/38/37 | 0.8 | 4 |
| **SP-OTDR35X-S7** | 1310/1550/1625 | 42/41/40 | 0.8 | 4 |
| **SP-OTDR35X-S8** | 1310/1550/1650 | 42/40/39 | 0.8 | 4 |
| **SP-OTDR35X-M9** | 850/1300/1310/1550 | 23/36/38/36 | 1.5 | 8/8/10/10 |
| Selectable Range | SM: 1.3, 2.5, 5, 10, 20, 40, 80, 160, 240Km<br>MM: 1.3, 2.5, 5, 10, 20, 40Km | | | |
| Pulse Width | SM: 5ns,10ns,30ns,100ns,300ns,1μs,2.5μs,10μs,20μs<br>MM: 5ns, 10ns, 30ns, 1μs, 2.5μs | | | |
| Averaging Time | Quick, 15s, 30s, 45s, 60s, 90s, 120s, 180s | | | |
| Emitter Type | LD | | | |
| Connector | FC/PC (Interchangeable SC, ST) | | | |
| Distance Measure Accuracy | ±(1m + $10^{-5}$×distance + sampling spacing) | | | |
| Attenuation Detect Accuracy | ±0.05 dB/dB | | | |
| Reflection Detect Accuracy | ±4 dB | | | |
| Visible Laser Source | Output Power: ≥ -3dBm; MOD Frequency: 1Hz; Detecting Range: 5Km | | | |
| **CIM300 Optical Connector Inspector Module (Optional)** | | | | |
| Field of View | 400μm×300μ | | | |

| | |
|---|---|
| Resolution | ≤1.5 |
| Focusing | Manual |
| Microscope Dimensions | Ø32×175 |
| **LS300 Stabilized Laser Source（Optional）** | |
| Wavelength (±20nm) | Same as |
| Output Power | ≥-7d |
| **PMM300 Normal Power Meter Module(Optional)** | |
| Calibrated Wavelength | 850nm,1300nm,1310nm,1490nm,1550nm,1625nm,1650nm |
| Measurement Range | -70dBm - +6dBm (-60dBm - +6dBm @ 850nm) |
| Detector Type | InGa |
| Display Resolution | 0.01 |
| Accuracy | ±5% ±0.01nW (±0.5dB@850nm) |

* Specifications subject to change without notice

**Notes:**

- Dynamic range measurement at 20μs pulse width and 180s averaging time
- Dead Zone measurement at 0.6Km and reflection<-45dB; EDZ measurement at 5ns,ADZ measurement at 10ns

## Order Information

| OTDR Module | Wavelength (±20nm) | Dynamic Range(dB)(1) | EDZ (m) (2) | ADZ(m) (2) |
|---|---|---|---|---|
| **SP-OTDR35X-S1** | 1310/1550 | 38/37 | 0.8 | 4.5 |
| **SP-OTDR35X-S2** | 1310/1550 | 45/43 | 0.8 | 4.5 |
| **SP-OTDR35X-S3** | 1310/1550 | 50/48 | 0.8 | 4.5 |
| **SP-OTDR35X-S4** | 1310/1550/1625 | 38/38/37 | 0.8 | 4.5 |
| **SP-OTDR35X-S5** | 1310/1550/1625 | 42/41/40 | 0.8 | 4.5 |
| **SP-OTDR35X-S6** | 1310/1550/1625 | 38/38/37 | 0.8 | 4.5 |
| **SP-OTDR35X-S7** | 1310/1550/1625 | 42/41/40 | 0.8 | 4.5 |
| **SP-OTDR35X-S8** | 1310/1550/1650 | 42/40/39 | 0.8 | 4.5 |
| **SP-OTDR35X-M9** | 850/1300/1310/1550 | 23/36/38/36 | 1.5 | 8/8/10/10 |

**Optional Module**

LS300: Stabilized Laser Source Module (as OTDR)
PMM300: Optical Power Meter Module
CIM300: Optical Connector Inspector Module
RC300: Remote control Module
LIM300: Link Image Module

## Important Notice

Performance figures, data and any illustrative materialprovided in this data sheet are typical and must bespecifically confirmed in writing by SPEEDWOLF beforethey become applicable to any particular order orcontract. In accordance with the SPEEDWOLF policy ofcontinuous improvement specifications may changewithout notice.

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## Contact SPEEDWOLF

**Shenzhen SPEEDWOLF Technology Co., Ltd**

Address:A-14,Haide Building, Nanxin Road Nanshan District Shenzhen,China .

Tel: +86-755-26400198 +86-755-26400288 Fax: +86-755-26411001

Whatsapp:+086-18923447735 skype:speedwolf_8

Email: speedwolf@speedwolf.net,

Web: www.speedwolf.net