

980EXT COMPACT MASTER OTDR

All in 1 Device, Pocket-sized, Multi Functions, Easy-to-use,
and Affordable for Technicians at Any Level



Features

- Single, dual wavelength light-weight OTDR
- Combines all essential fiber tests in one handheld with OPM, OLS, VFL, etc
- Easy to understand OTDR analysis with event map result view and pass/fail indications
- Access network or point-to-point network verification or troubleshooting
- Upgrades easily in the field
- All-day battery life

Application

- FTTX Testing and Maintenance
- CATV Network Testing
- Access Network Testing
- LAN Network Testing
- Metro Network Testing
- FTTA Troubleshooting

9 Function in One Device | OTDR | Optical Power Meter | Optical Light Source | Visual Fault Locator | Insertion Loss Testing | Event Map | Head Lamp | RJ45 Cable Testing | Connector End-face Inspection

Configuration

Model#	Hot Sale			
	980EXT-D22	980EXT-D24	980EXT-D26	980EXT-D20SF
Wavelength	1310nm & 1550nm	1310nm & 1550nm	1310 & 1550nm	1550nm
Dynamic Range	22/20dB	24/22dB	26/24dB	20dB
Testing Range	3m to 70km	3m to 80km	3m to 100km	3m to 70km
OTDR	√	√	√	√
Power Meter	√	√	√	√
Light Source	√	√	√	√
Visual Fault Locator	√	√	√	√
Insertion Loss Testing	√	√	√	√
LED Light	√	√	√	√
Event Map	x	√	√	x
RJ45 Cable Testing	x	√	√	x
Microscope	x	√	√	x
Active Fiber Testing	x	x	x	√

Request a Remote Demo
sales@FirstFiber.cn

The Kit Includes: OTDR, FC/SC Connector, User Manual, Touch Pen, TF Card, OTDRviewer Software, Power Charging Adapter, Cleaning Tool, Carrying Case, Certificate of Calibrate

*Note: 980EXT-D20SF is with Filter 1490nm and 1577nm
Microscope probe is sold separately*

General	
Size/Weight	175x105x45mm/ 450g (Battery included)
Display	4.3 inch touch-sensitive TFT Screen, 800x480 Resolution
Interface	2×USB, 1×SD port, 1×OTDR port, 1×VFL port, 1×Power Meter Port, 1×Charging Port
Power Supply	Input: 100V(ac) to 240V(ac), 50~60Hz, 0.8A; Output: 9V(DC), 2A 5200mAh/3.7V Lithium battery (with air traffic certification)
Battery	Standby Time>10 hours
Power Saving	Back light: Common/Highlight/Power saving/Customized Auto power off: Never/1min/5min/10min/30min/60min
Data Storage	SD Card: 2GB (about 100,000 curves)
Language	English, Spanish, French, Korean, Italian, Portugal, Russian
Environmental Conditions	Operating temperature and humidity: -10℃~+55℃, ≤95% (non-condensation) Storage temperature and humidity: -20℃~+80℃, ≤95% (non-condensation)

OTDR Module	
Pulse Width	5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs
Distance Range	100m, 500m, 2km, 5km, 10km, 20km, 40km, 60km, 90km
Sampling Resolution	Minimum 0.2m
Sampling Point	Maximum 64,000 points
Linearity	≤0.05dB/dB
Averaging Time	10s, 15s, 30s, Real Time, Customized
Scale Indication	X axis: 4~70m/div, Y axis: 0.09~5dB/div
Distance Accuracy	$\pm(1m + \text{measuring distance} \times 3 \times 10^{-5} + \text{sampling resolution})$ (excluding IOR uncertainty)
Loss Threshold	Auto, Customized
Loss Resolution	Auto, Customized
Distance Resolution	0.01m
IOR Setting	1.0~1.9, 0.0001 step
Units	km, miles, kfeet
OTDR Trace Format	Telcordia universal, SOR, issue 2(SR-4731)

VFL Module	
Wavelength	650nm
Output Power	10mw, CLASSIII B
Range	12km
Launching Mode	CW/2Hz

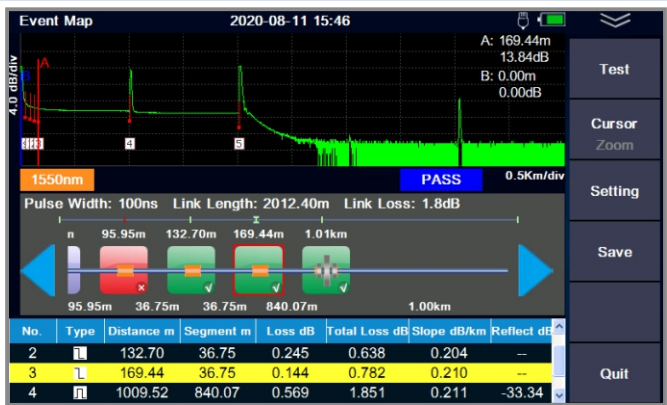
OPM Module	
Wavelength	850/1300/1310/1490/1550/1625/1650nm
Test Range	-70~+ 10dBm (in default) or -50~+ 26dBm
Resolution	0.01
Accuracy	$\pm 0.35\text{dB} \pm 1\text{nW}$
Modulation	270/1k/2k Hz, $\text{Pi} \geq -40\text{dBm}$

OLS Module	
Wavelength	Same as OTDR Wavelengths
Output Power	-10 to -4dBm $\pm 2\text{dB}$
Output mode	CW/270/1k/2k Hz

Functions Display



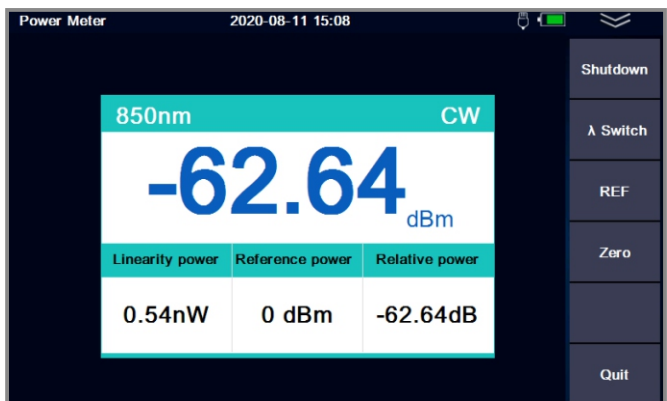
OTDR Curve & Event List



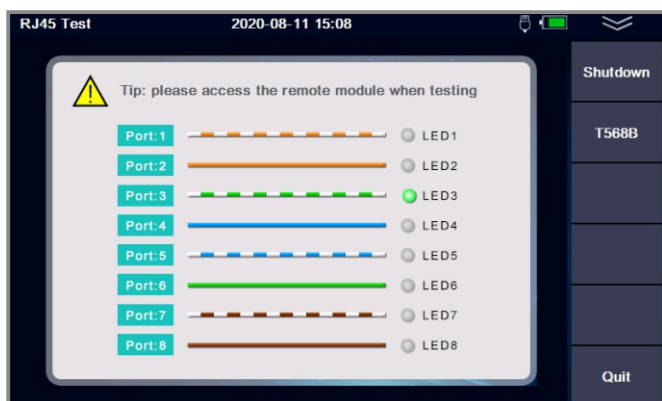
Event Map



Visual Fault Locator



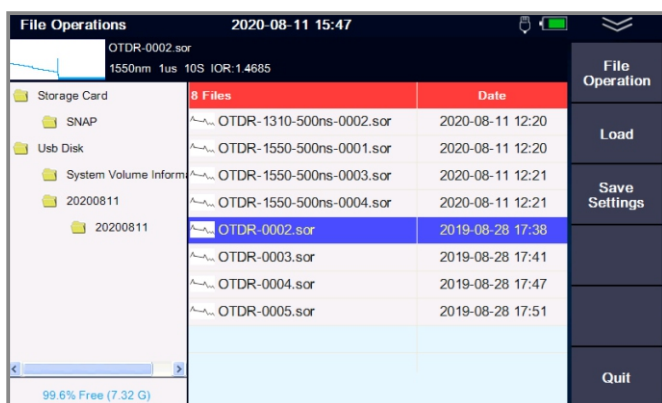
Optical Power Meter



Rj45 Cable Testing



End-face Inspection

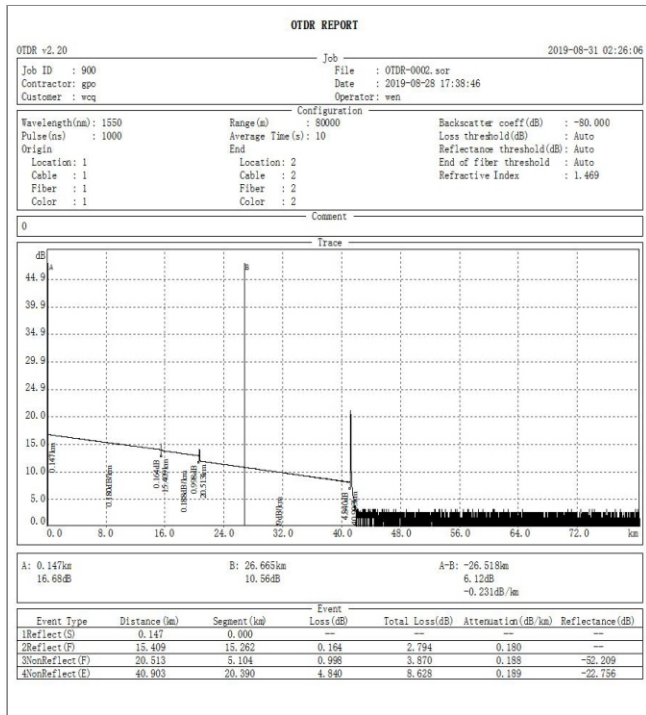


SOR and BMP Files Management



Parameter Setting

OTDR Report Printing



*.bmp
*.sor

USB Disc
USB Cable

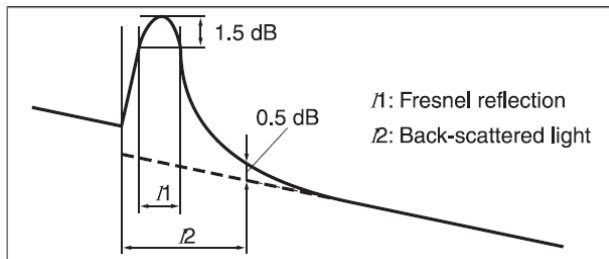
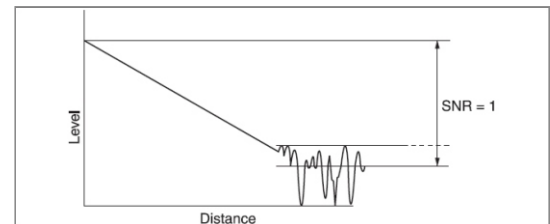


PC Software

Key Parameters Explanation

Notes

Dynamic range is measured with maximum pulse width, averaging time is 3 minutes, SNR=1; The level difference between the RMS noise level and the level where near end back-scattering occurs.



Instructions of OTDR Curves and Events that displayed on OTDR screen.



Event dead zone is measured with pulse width of 10ns; attenuation dead zone is also measured with pulse width of 50ns.

