FF-980MAS ENHANCED OTDR

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



- Auto OTDR
- Expert OTDR
- Event Map
- Optical Power Meter
- Optical Light Source
- Insertion Loss
- Visual Fault Locator
- RJ45 Cable Tracking
- RJ45 Cable Sequence
- RJ45 Cable Length
- Endface Inspector
- LED Light

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

Configuration

- 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
- Access network or point-to-point network verification or troubleshooting
- Upgrades easily in the field
- All-day battery life

Configuration					
		Hot Sale			
Model#	980MAS-S0	980MAS-S1	980MAS-S2	980MAS-P1	980MAS-P2
Wavelength	1550nm	1310nm & 1550nm	1310nm & 1550nm	1310nm	1610nm
Dynamic Range	24dB	24/22dB	26/24dB	26dB	22dB
Testing Range	3m to 80km	3m to 80km	3m to 100km	3m to 100km	3m to 60km
OTDR	√	√	$\sqrt{}$	$\sqrt{}$	√
Power Meter	√	√	√	√	√
Light Source	√	√	$\sqrt{}$	$\sqrt{}$	√
Visual Fault Locator	√	√	√	√	√
Insertion Loss Testing	√	√	$\sqrt{}$	$\sqrt{}$	√
Event Map	√	√	√	√	√
Endface Inspector ¹	√	√	√	√	√
RJ45 Sequence	√	$\sqrt{}$	√	√	√
RJ45 Length	√	√	$\sqrt{}$	√	√
Rj45 Digital Tracker	√	$\sqrt{}$	\checkmark	$\sqrt{}$	√
In-service Testing ²	x	x	x	√	√

Request a Remote Demo sales@FirstFiber.cn

The Kit Includes: OTDR, FC/SC Connector, User Manual, PC Software, Charging Adapter, RJ45 Cable Tracker, RJ45 Remote Unit USB Cable, Carrying Case, Certificate of Calibrate

Note: 1. Endface Inspector probe is sold separately, Contact Sales to confirmed if it is available now. 2.980MAS-P1 & 980MAS-P2 are both with Wavelength Filter. In-service signal power <-5dBm @ 980MAS-P1 <0dBm@980MAS-P2

General	
Size/Weight	173x109x45mm/ 450g (Battery included)
Display	4.3 inch touch-sensitive IPS TFT-LCD Screen, 800x480 Resolution
Interface	1×USB,1xTF port,1xOTDR port, 1xVFL port, 1xPower Meter Port, 2xRJ45 Port
Power Supply	AC/DC Adapter, Input: 100V(ac) to 240V(ac), 50~60Hz, 0.6A; Output: 5V(DC), 2A
Battery	Lithium battery, 4000mAh/3.7V (with air traffic certification)
Operation Time	>12 hours
Back Light	Back light brightness: 0%, 20%, 40%, 60%, 80%, 100%
Power Saving	Auto power off: Never/5min/15min/30min/45min/60min
Data Storage	SD Card: 8GB, >200,000 Curves
Language	English, Spanish, French, Russian, Vietnam, etc
Booting Time	<10 seconds
Beep Sound	Beep can be turned on or off
Multi Tasks	The meter support VFL and LED light working at back end
Screen Shot	The meter support screen shot
Environmental	Operating temperature and humidity: -10°C~+50°C, ≤95% (non-condensation)
Conditions	Storage temperature and humidity: -40°C~+70°C, ≤95% (non-condensation)

OTDR Module		
Pulse Width	3ns,5ns,10ns,30ns,50ns,80ns,160ns,320ns,500ns,800ns,1µs,2µs,5µs,8µs,10µs,20µs	
Distance Range	500m,1km, 2km, 4km, 8km, 16km, 32km, 64km, 100km	
Sampling Resolution 0.05m to 8m		
Sampling Point	Maximum 128,000 points	
Linearity	≤0.05dB/dB	
Averaging Time	5s, 15s, 30s, 60s, 120s, 180s	
Loss Analysis	4-point method/5-point method	
Distance Accuracy	±(1m+measuring distance×3×10^-5+sampling resolution) (excluding IOR uncertainty)	
Loss Threshold	0.20dB	
Loss Resolution	0001dB	
Distance Resolution	0.001m	
IOR Setting	1.0~2.0, 0.001 step	
Units	km, mi, kft	
OTDR Trace Format	Telcordia universal, SOR, issue 2(SR-4731)	

VFL Module	
Wavelength	650nm
Output Power	10mw, CLASSIII B
Range	12km
Launching Mode	CW/1Hz/2Hz

OPM Module	
Wavelength	850/980/1300/1310/1490/1550/1625/1650nm
Test Range	-70~+ 10dBm or -50~+ 26dBm
Resolution	0.01dB
Uncertainty	5%
Accuracy	±0.35dB±1nW
Frequency	Frequency Identification, CW/270Hz/330Hz/1kHz/2kHz, Pi≥-40dBm
Connector	2.5 mm universal connector

OLS Module

Wavelength Same as OTDR Wavelengths

Output Power -5dBm

Modulation Mode CW/270Hz/330Hz/1kHz/2kHz

Laser Type FP-LD

Rj45 Cable Tracker

Testing Range 300 meters

Signal Type Analog signal/Digital Signal

Active Cable Track Support

Signal Receiver Sent as a default Accessories

Warning Sound Yes

Rj45 Cable Type Support both 568A and 568B

Rj45 Cable Sequeence

Testing Range 300 meters

Signal Type Analog signal/Digital Signal

Active Cable Test Not Support

Remote Unit Can be took out from bottom of the device

Rj45 Cable Type Support both 568A and 568B

Testing Time Less than 15s

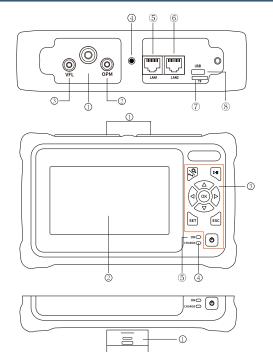
Rj45 Cable Length

Testing Range 300 meters

Signal Type Analog signal/Digital Signal

Active Cable Test Not Support
Testing Time Less than 15s

Structure Drawings



Top

- ① OTDR/LS port
- @ OPM port
- ③ VFL port
- Flashlight
- ⑤ RJ45 Cable Tracker port
- ® RJ45 Sequence/Length port
- TF card
- **®** Type C USB

Main view

- ① Dust cover
- @ 4.3 inch color LCD
- ③ Function keys
- ⑤ Power on status indicator

Bottom

①RJ45 Sequence test remote



OTDR Curve



Event Map



Visual Fault Locator



Optical Power Meter



Aj45 Cable Testing



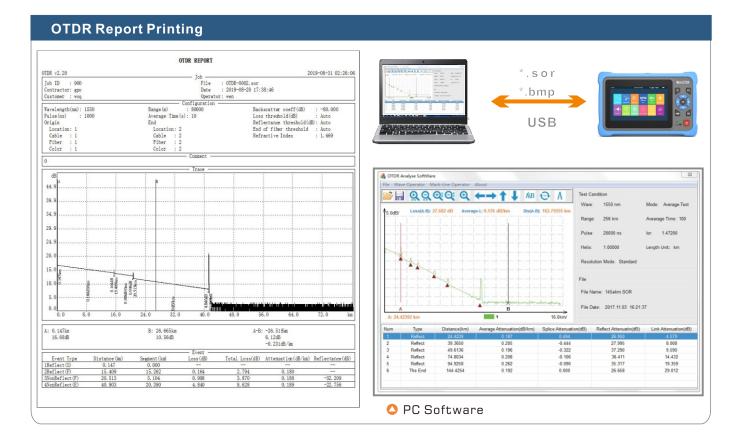
Stable Light Source



SOR and BMP Files Management

Parameter Setting

[★] Please visit the link for more pictures and video demowww.firstfiber.cn/otdr-980mas.html

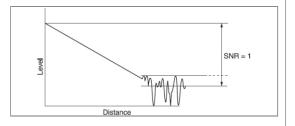


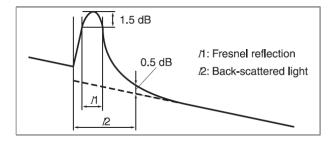
Key Parameters Explaination

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.







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

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

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