Ver1.03

TN1700 MICRO OTDR

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

All Functions in One Device

- OTDR (Auto Test)
- OTDR (Average Test)
- OTDR (Real Time Test)
- Event Map
- Visual Fault Locator (VFL)
- Optical Power Meter (OPM)
- Optical Light Source (OLS)
- Loss Test
- LED Light
- NFC (optional)

Features

- Single, dual wavelength light-weight OTDR
- Combines all essential fiber tests in one handheld
- Easy to understand OTDR analysis with event map
- Access network or point-to-point network verification or troubleshooting
- Upgrades easily in the field
- All-day battery life

Configuration

			Hot Sale	
Model#	**TN1700-D22**	**TN1700-P1**	**TN1700-P2**	**TN1700-A22**
Wavelength	1310nm & 1550nm	1550nm	1610nm	1625nm
Dynamic Range	22/20dB	22dB	22dB	22dB
Testing Range	3m to 70km	3m to 70km	3m to 70km	3m to 70km
OTDR	√	√	√	√
Power Meter	√	√	√	√
Light Source	√	√	√	√
Visual Fault Locator	√	√	√	√
Loss Testing	√	√	√	√
LED Light	√	√	√	√
Event Map	√	√	√	√
1490nm Online	x	√	√	√
1550nm Online	x	x	√	√
1577nm Online	x	√	√	√

The Kit Includes: OTDR, SC Connector, User Manual, OTDRviewer Software, USB Cord, Power Charging Adapter, Cleaning Tool, Carrying Case, Certificate of Calibrate

Note: TN1700-P2/A22 is with Filter 1490nm and 1577nm
The power of signal online >0dBm are not allowed

Request a Remote Demo
sales@FirstFiber.cn

General

Size/Weight	175x105x45mm/ 450g (Battery included)
Display	3.5 inch touch-sensitive TFT Screen
Interface	1×USB,1xSD port,1xOTDR port, 1xVFL port, 1xPower Meter Port, 1xCharging Port
Power Supply	Input: 100V(ac) to 240V(ac), 50~60Hz, 0.8A; Output: 9V(DC), 2A 2000mAh/3.7V Lithium battery (with air traffic certification)
Working Time	Standby Time>10 hours
Power Saving	Back light: Common/Highligh/Power saving/Customized Auto power off: Never/1min/5min/10min/30min/60min
Data Storage	Internal Memory: 500 Curves, SD Card: 32GB (optional)
Language	English, Spanish, French, Italian, Portugal, Portuguese, German
Environmental Conditions	Operating temperature and humidity: -10℃~+50℃, ≤95% (non-condensation) Storage temperature and humidity: -20℃~+50℃, ≤95% (non-condensation)

OTDR Module

Pulse Width	5ns, 10ns, 20ns, 50ns, 100ns, 275ns, 500ns, 1μs, 2μs, 5μs, 10μs
Distance Range	100m, 500m, 1km, 2km, 5km, 10km, 20km, 40km, 60km, 80km
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	±(1m+measuring distance×3×10^-5+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

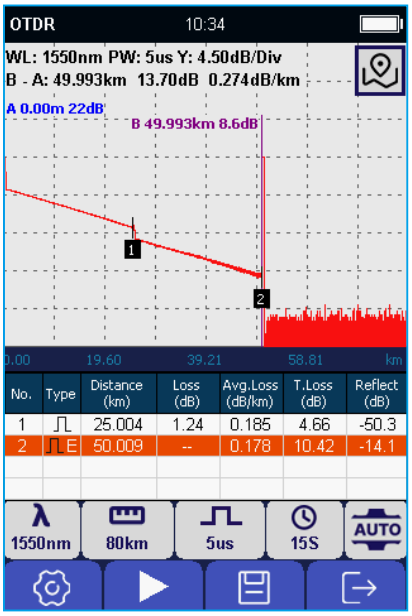
OPM Module

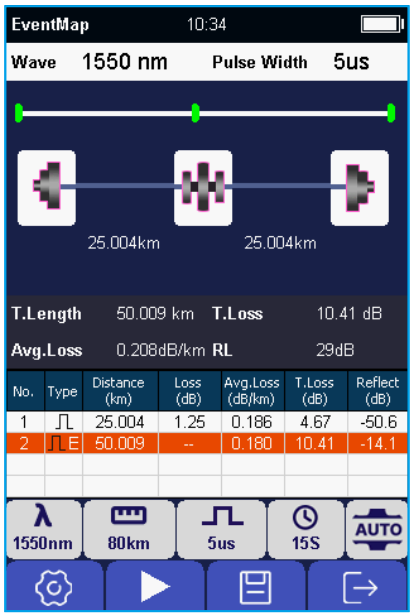
Wavelength	850/1270/1300/1310/1490/1550/1577/1610/1625/1650nm
Test Range	-70~+ 10dBm, -50~+ 26dBm (optional)
Resolution	0.01
Accuracy	±0.35dB±1nW
Modulation	270/330/1k/2k Hz, Pi≥-40dBm

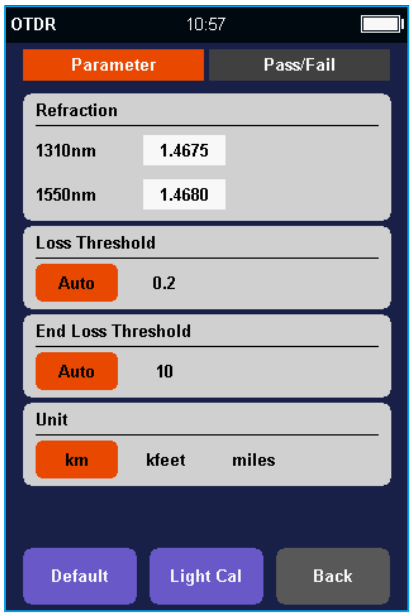
OLS Module

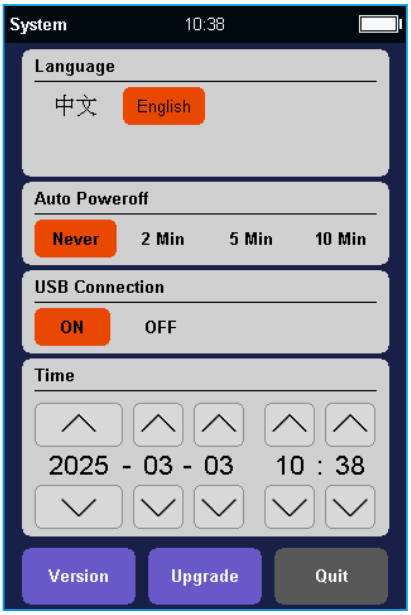
Wavelength	Same as OTDR Wavelengths
Output Power	-5to +3dBm
Output mode	CW/270/1k/2k Hz

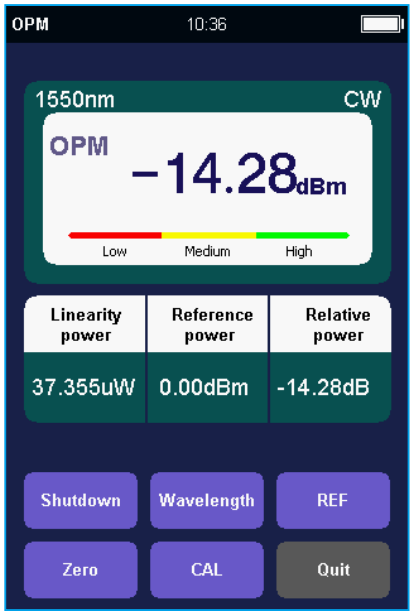
Functions Display

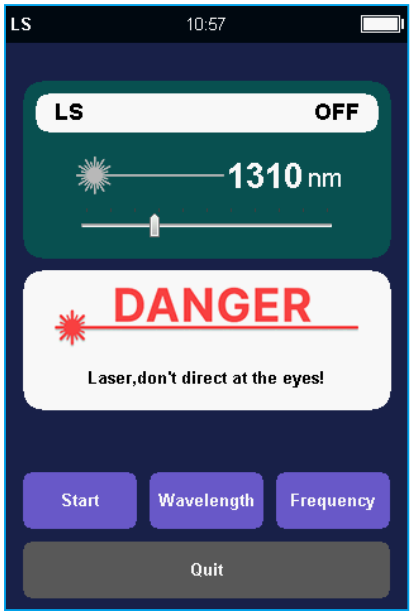


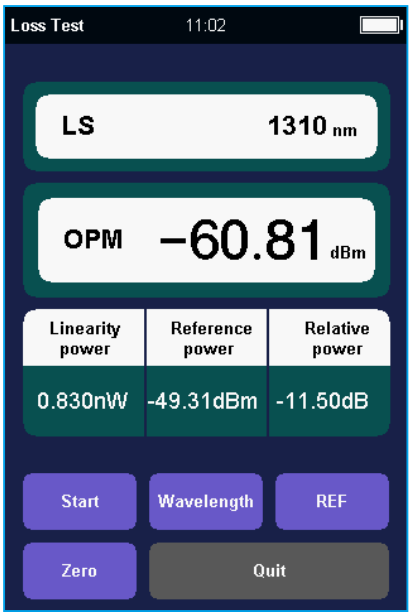


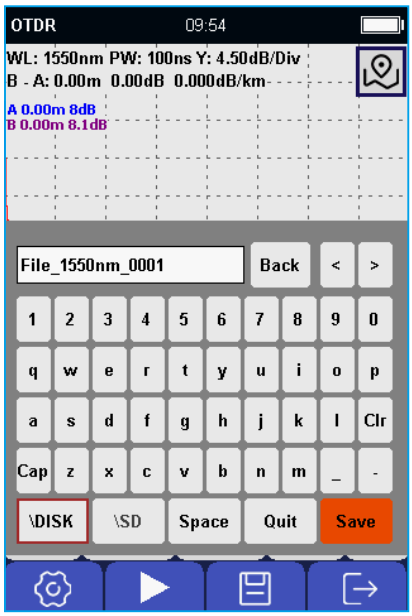




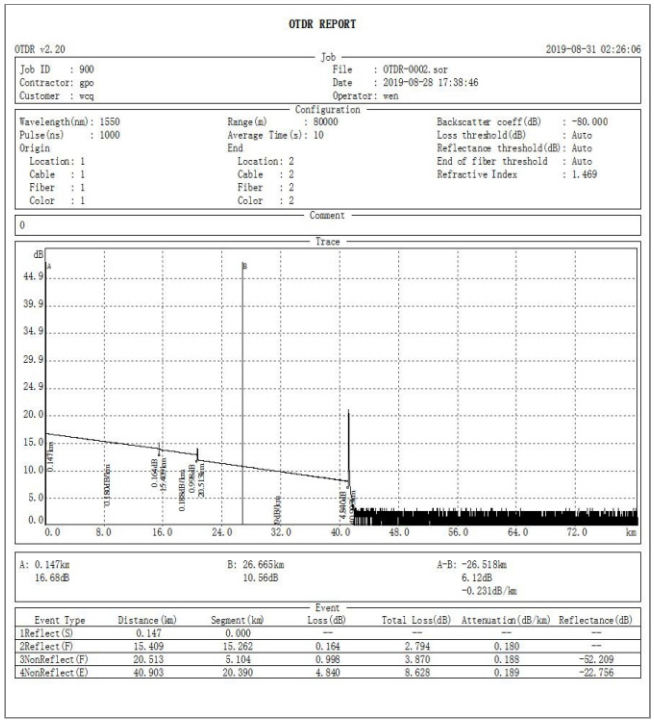








OTDR Report Printing



OTDR REPORT

OTDR v2.20 2019-08-31 02:26:06

Job
Job ID : 900
Contractor: gpo
Customer : wcq
File : OTDR-0002.sor
Date : 2019-08-28 17:38:46
Operator: wen

Configuration
Wavelength(nm): 1550
Pulse(ns) : 1000
Origin
Location: 1
Cable : 1
Fiber : 1
Color : 1
Range(m) : 80000
Average Time(s): 10
End
Location: 2
Cable : 2
Fiber : 2
Color : 2
Backscatter coeff(dB) : -80.000
Loss threshold(dB) : Auto
Reflectance threshold(dB): Auto
End of fiber threshold : Auto
Refractive Index : 1.469

Comment
0

Trace

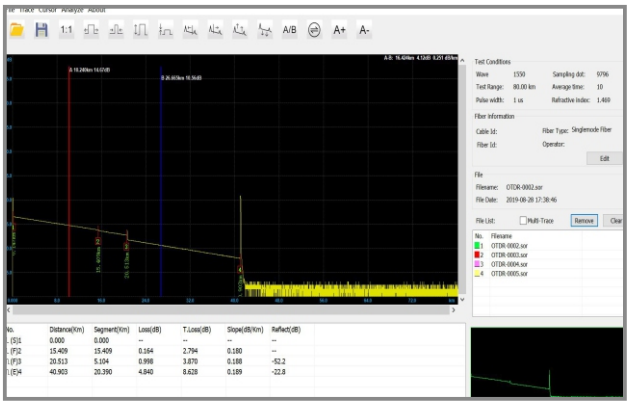
A: 0.147km 16.68dB
B: 26.665km 10.56dB
A-B: -26.518km 6.12dB -0.231dB/km

Event

Event Type	Distance(km)	Segment(km)	Loss(dB)	Total Loss(dB)	Attenuation(dB/km)	Reflectance(dB)
1Reflect(S)	0.147	0.000	---	---	---	---
2Reflect(F)	15.409	15.262	0.164	2.794	0.180	---
3NonReflect(F)	20.513	5.104	0.998	3.870	0.188	-52.209
4NonReflect(E)	40.903	20.390	4.840	8.628	0.189	-22.756

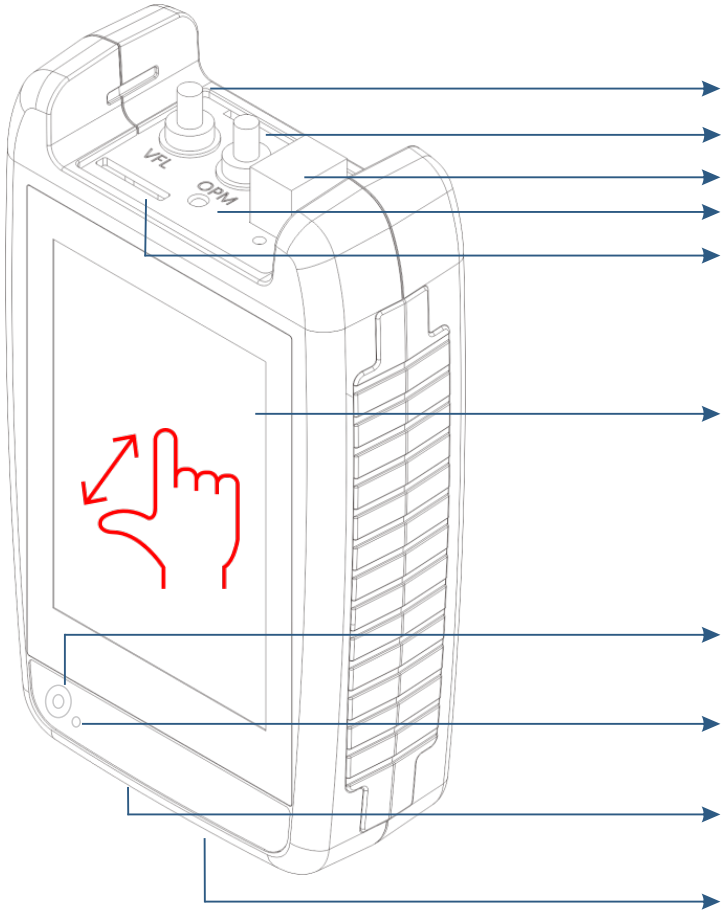
*.bmp
*.sor

USB Cable



PC Software

Drawings

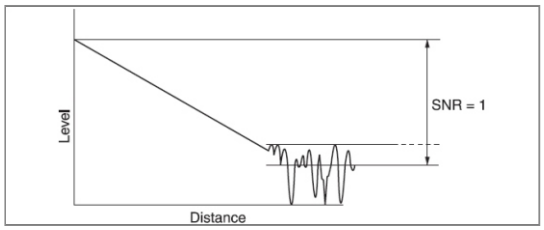


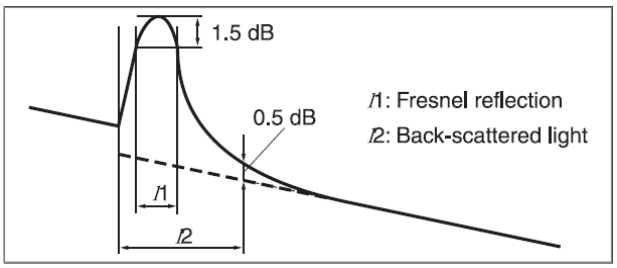
VFL Port
OPM Port
OTDR/OLS Port
LED Light
SD Card
LCD Screen
Power On/off
Power/Charging Indicator
Type C Port
Reset

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.