



Optical Time Domain Refractometer

Mini OTDR
MN3

The right hand for fiber optic cable construction, installation and maintenance, project acceptance and on-site emergency repairs





Automatic
OTDR



Expert
OTDR



Event Map



RJ45 Line
Length



RJ45 line
finding



RJ45 line
sequence



Stable light
source



Export
reports



Loss
measurement



Double
operation



Red light
source



High
power



Large
screen



3 seconds
boot



Avant-garde
design

1 unit Equivalent to 5 units

Top 10 functions to
highlight the extraordinary



One MN3 is equivalent



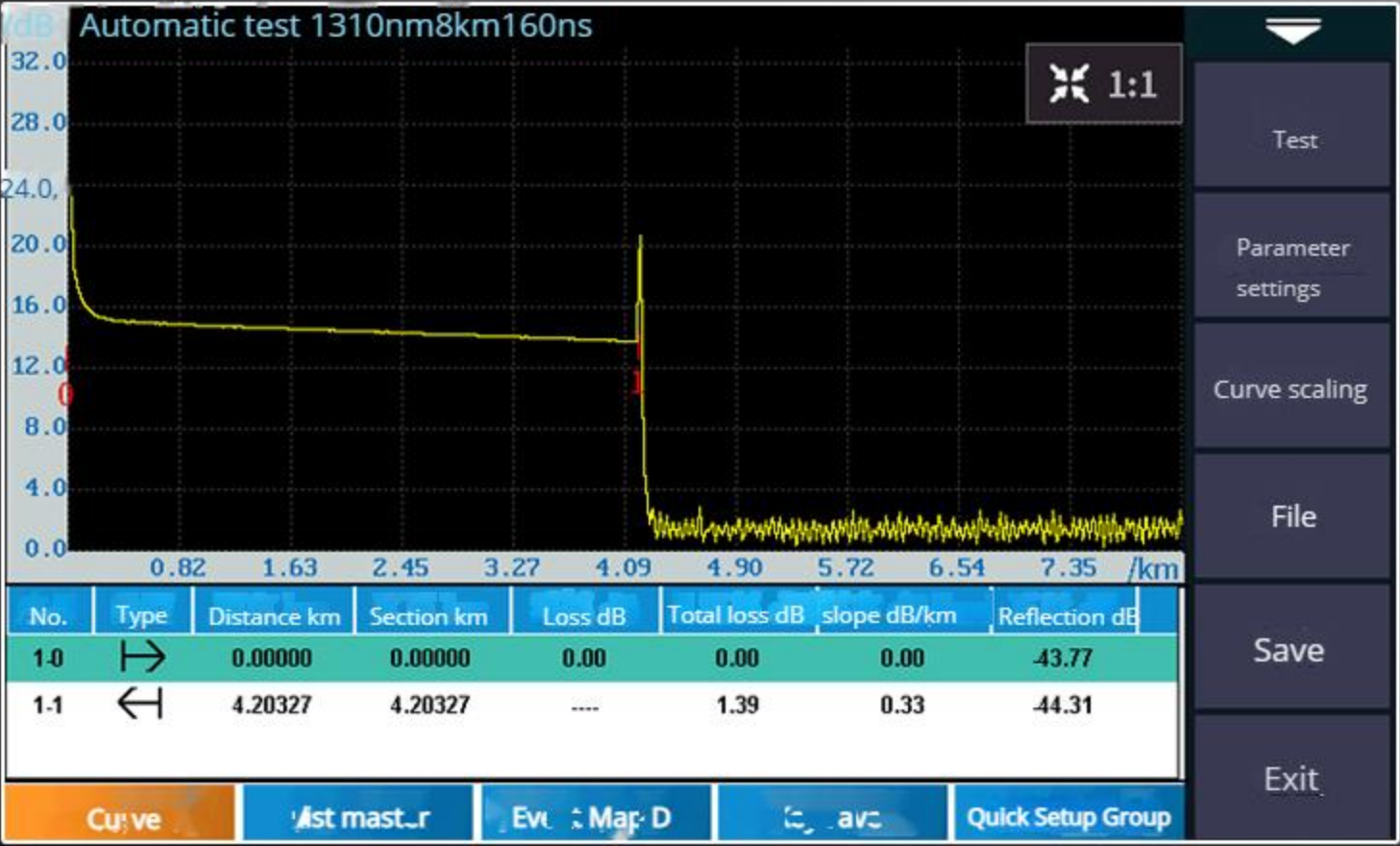
MN 3 has the functions of measuring OTDR, optical power loss, RJ 45 network cable sequence finding, RJ45 line length, digital line finding, event map, red light source, etc. It integrates many functions and has powerful functions.

Dual Wavelength Positioning

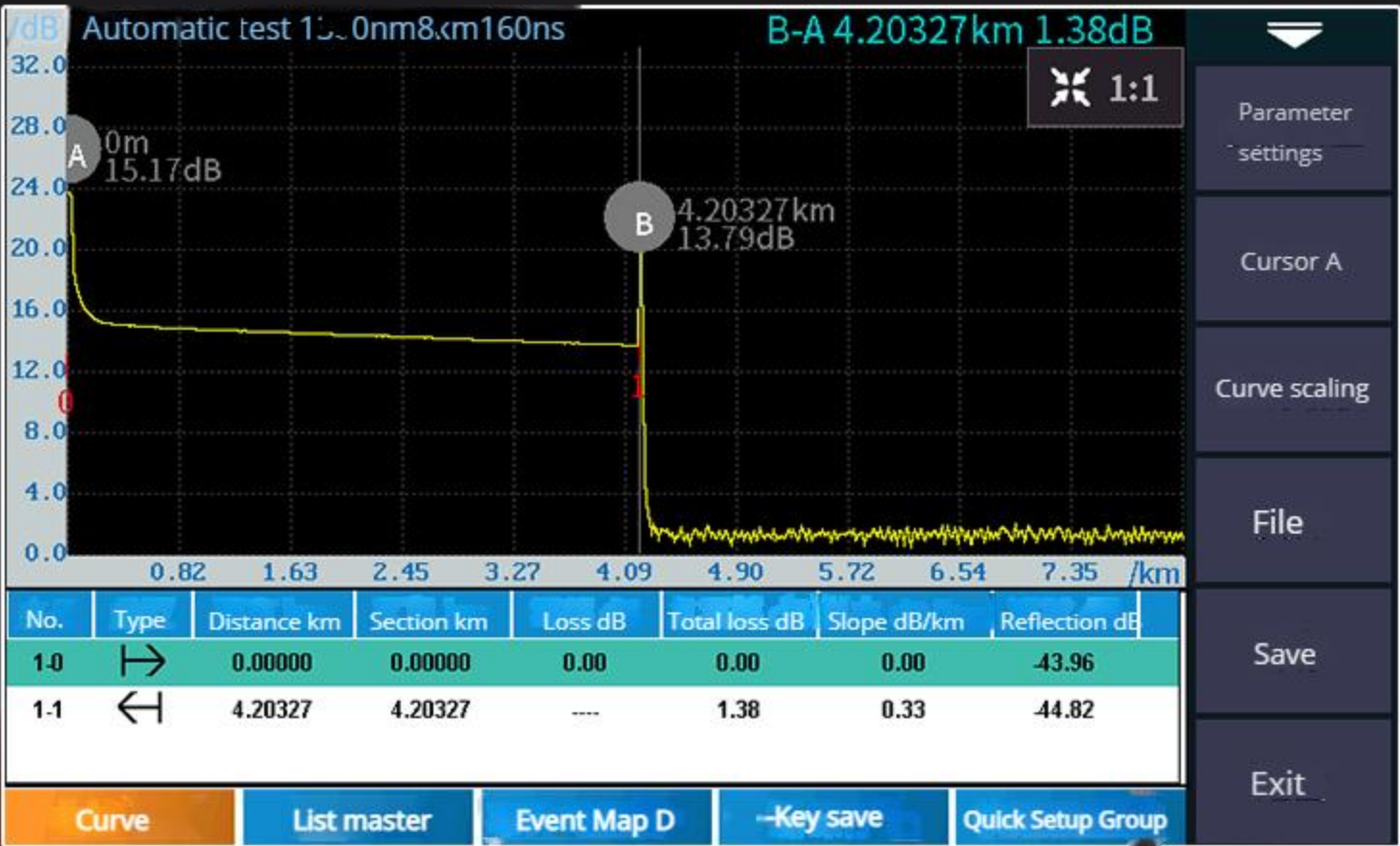
The measuring range can reach
100km



MN3 can emit 1310nm and 1550nm wavelengths,
or 1310/1550nm simultaneous measurement.



Automatic OTDR: it can perform optical fiber length, optical fiber transmission attenuation, and
Measurement of attenuation and fault location.



Expert OTDR: parameters such as wavelength, measurement range and pulse width shall be
set.

Event Map (Optical Eye)

Clear visualization of breakpoints



You can use the event map to help you understand the situation of the optical fiber link. The event map directly converts the continuous situation of the entire optical fiber link into a physical diagram.



Optical Power Meter

Easily test optical loss



Used to test the signal power of various devices and optical components. Enables identification and measurement of 270/330/1k/2kHz frequencies

OPM2023-03-15 13:20

980nmReference power: 0.00dBm

OPM-50.00dBm

-50.00dBm+26.00dBm

Relative power	Linear power	Frequency Monitoring
-50.00dB	10.0nW	CW

Wavelength

Reference

Calibration

Threshold

Exit

Loss Test2023-03-15 17:00

Light Source1550nm

OPM-50.00dBm

Linear power	Reference value	Relative power
10.0nW	0.00dBm	-50.00dB

Close

Wavelength

Reference

Reference zero

Exit

Intelligent Line Checking Sequence

Easy to Detect On/Off

Please intervene in the remote module test at the bottom of the instrument during testing.
RJ45 network cable sequence on/off



Prompt!

8-wire straight-through

Port: 1	-----	Port: 1
Port: 2	-----	Port: 2
Port: 3	-----	Port: 3
Port: 4	-----	Port: 4
Port: 5	-----	Port: 5
Port: 6	-----	Port: 6
Port: 7	-----	Port: 7
Port: 8	-----	Port: 8



RJ45 Finding Line

Accurate and fast positioning

Engineering
Wiring

Server
room
maintenance

Device
update



Positioning the network
cable by the "beep" from
the line-finding pen

Beep

Quality Assurance-- Safety & Rest Assured

CALIBRATION CERTIFICATE



MN3
序列号: 23028088
温度: 25℃±2℃
湿度: 50%RH
检验员:
校准日期:

动态范围测试

测试方法: JJG959-2001_4.5, 脉冲宽度: 20000ns, 测量范围: 100 km, 平均次数或时间: 180s

波长 (nm)	测试结果 (dB)	标准指标 (dB)	检定结果 Pass/Fail
1310	26.20	26.00	Pass ☒ Fail ☐
1550	24.20	24.00	Pass ☒ Fail ☐

盲区测试

测试方法: JJG959-2001_4.6/4.7, 脉冲宽度: 3ns, 测量范围: 0.5 km, 平均次数或时间: 180s

波长 (nm)	事件盲区 (m)	标称指标 (m)	检定 Pass/Fail	衰减盲区 (m)	标称指标 (m)	检定结果 Pass/Fail
1310	2.48	2.5	Pass ☒ Fail ☐	7.99	8.0	Pass ☒ Fail ☐
1550	2.48	2.5	Pass ☒ Fail ☐	7.97	8.0	Pass ☒ Fail ☐

测试方法: JJG959-2001_4.2, 脉冲宽度: 320ns, 测量范围: 8km, 平均次数或时间: 180s

波长 (nm)	测试长度 (m)	标准长度 (m)	误差 (m)	检定结果 Pass/Fail
1310	5091.4	5091.0	0.4	Pass ☒ Fail ☐
1550	5090.8	5091.0	-0.2	Pass ☒ Fail ☐

测试方法: JJG959-2001_4.3, 脉冲宽度: 320ns, 测量范围: 8km, 平均次数或时间: 180s

波长 (nm)	线性测量值 (dB/km)	标称指标 (dB/km)	检定结果 Pass/Fail
1310	0.09	±0.2	Pass ☒ Fail ☐
1550	0.07	±0.2	Pass ☒ Fail ☐

Appearance Introduction

Clear partitions & Easy operation



Performance Parameters

Project	Parameter
Product Model	MN3
Optical fiber type	Single Mode
Center wavelength	1310nm/1550nm $\pm$ 20nm
Maximum dynamic range (dB)	28/26dB
Event blind area	1.5m
Attenuation blind area	8m
Display type	3.5-inch touch screen
Optical interface	FC/UPC (interchangeable SC, ST)
Test scope	500m、1km、2km、4km、8km、16km、32km、64km、100km
Pulse width	$\pm(1\text{m} + \text{sampling interval} + 0.005\% \times \text{distance})$

Attenuation measurement precision	$\pm 0.05 \text{ dB/dB}$
Reflection measurement precision	$\pm 4 \text{ dB}$
Data storage	More than 1,000 test curves
Communication Interface	USB
Red light source	
Output power	$\geq 2 \text{ mW}$
Test distance	$\geq 5 \text{ km}$
Environmental Adaptability	
Power supply mode	AC/DC adapter: AC: 100V ~ 240V (1.5A) , 50/60Hz DC: 18V ~ 20V(2A) Internal lithium ion battery pack: 7.4V, 4400mAh
Battery working time	$\geq 10 \text{ hours}$
Operating temperature	$-5^{\circ}\text{C} \sim 50^{\circ}\text{C}$
Storage temperature	$-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
Relative humidity	0 ~ 95% no condensation
Weight	$\leq 1 \text{ kg}$
Volume	208mm × 110mm × 56mm

Accompanying List



No.	Name	Quantity
1	Instrument backpack (Including straps)	1
2	Optical time domain reflectometer host	1
3	Cleaning surface sheet	5
4	Warranty card	1
5	Line-finding pen	1
6	Power Adapter	1
7	Data Cable	1
8	SC adapter	1

Product Display









TFA

总长度	总损耗	平均损耗	总事件:1	
4.2033km	1.38dB	0.33dB/km	Pass:1	Fail:0



4.20327km



1:事件末端 位置:4.20327km

通过

距离上一事件点:4.20327km
事件通过阈值判断,为正常事件

损耗:---
平均损耗:0.33dB/km
反射:-44.82dB
衰减:1.38dB

曲线

列表

事件地图

一键保存

快速设置

参数设置

上一事件

下一事件

文件

保存

退出