

# Multi-function OTDR

*Optical Fiber + Network Cable Testing*  
多功能 OTDR 光纤 + 网络电缆测试



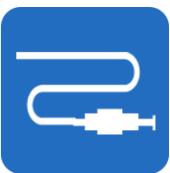
OTDR



Optical signal detection  
带光测试



Laser Source  
红光源



Optical power meter  
光功率计



IPS touch screen  
IPS 触摸屏



Visual fault locator  
可视故障定位器



Loss test  
损耗测试



UTP Cable test  
UTP 电缆测试

- ◆ 4 inch IPS touch screen, 800 x 480 resolution
- ◆ OTDR Auto testing, event map, easy to use
- ◆ Stable laser source, optical power meter and visual fault locator
- ◆ Report saved as SOR, PDF format etc.
- ◆ Network cable length measurement, up to 3km
- ◆ UTP cable test, for network cable's sequence and continuity
- ◆ RJ45 TDR cable test\* (only for NF-983)
- ◆ PING, PPPOE, IP scan, port flashing etc network test \* (only for NF-983)



4 英寸 IPS 触摸屏, 800 x 480 分辨率

OTDR 自动测试、事件地图, 使用方便

稳定的激光源、光功率计和可视故障定位器

报告保存为 SOR、PDF 格式等。

网络电缆长度测量, 最长 3 千米

UTP 电缆测试, 用于测试网络电缆的顺序和连续性

RJ45 TDR 电缆测试\* (仅适用于 NF-983)

PING、PPPOE、IP 扫描、端口闪烁等网络测试\* (仅适用于 NF-983)

### Application

Multi-function NF-983 OTDR is an essential tool for fiber length, network and cable testing. OTDR displays the power of the returned signal related to distance. The information can be used to confirm the transmission quality of a fiber optic link. It is widely used in the maintenance, construction and monitoring of cable line.

It can measure the optical fiber length, transmission attenuation of optical fiber, attenuation of splice, and failure location, etc. the Multi-function OTDR can make working conditions safer and increasing productivity.

- Fiber length testing and Event Map etc
- Network cabling project installation and maintenance

多功能 NF-983 OTDR 是光纤长度、网络和电缆测试的必备工具。OTDR 显示返回信号的功率与距离的关系。这些信息可用于确认光纤链路的传输质量。它广泛应用于光缆线路的维护、建设和监控。

多功能 OTDR 可以测量光纤长度、光纤传输衰减、接头衰减和故障位置等。

- 光纤长度测试和事件图等
- 网络布线项目的安装和维护

## Features

### 特点

OTDR Technical Specification		
Wavelength (nm) <b>Optional *</b>	1310/1550	1550
Dynamic range(dB) <sup>2</sup> <b>Optional*</b>	26/24	24
Pulse width (ns)	5,10,20,30,50,80,160,300,500,800,1000,2000,4000,6000,10000,20000	
Testing range		≤150 Km
Event blind zone (m) <sup>3</sup>		≤1.6m
Attenuation blind zone (m) <sup>3</sup>		≤8m
Linearity (dB/dB)		± 0.05 dB/ dB
Loss threshold (dB)		0.05
Loss resolution ratio (dB)		0.01
Minimum distance resolution		0.05
Sampling point(K)		32-128
Distance uncertainty (m)		± (1 m + 5×10 <sup>-5</sup> × distance + sampling interval)
Distance scope (km)		0.5,1,2,5,10,25,50,100,200
Typical real-time refreshing duration		1s
File format		SOR standard format/PDF/EXCEL
Measurement duration		5sec, 10sec, 15sec, 30sec, 1min, 2min, and 3min are selectable
Storage		FLASH (EMMC) + TF card
Interface type		SC-PC

#### Remarks:

1. The technical specification describes the ensured performance of the instrument when using typical PC model connector to measure, without considering the uncertainty caused by optical fiber refractivity.
2. Dynamic range is the data measured under the condition of the maximum pulse width and 3 minutes of average time. Dynamic range is the data measured under the condition of 200km/20000ns/3min.
3. Measuring conditions of blind zone: reflection event is within 5KM, reflection strength is 45dB. Measured by the minimum pulse width.
4. TF card not included

Model	<b>NF-983</b>
Size & Display	4 inch IPS touch screen, 800 x 480 resolution
UTP cable test	Test UTP cable connection status and display on the screen. Read the number on the screen. Detect the near-end, mid-end and far-end fault point of RJ45 cable connector, also can test shield cable
length measurement	Network cable length measurement, up to 3km
Optical power meter	Wavelength:1625nm,1550nm,1490nm,1310nm,1300nm,850nm,measurement range , -70 ~+6dBm, for optical power testing and Fiber link loss relative measurement
Visual fault locator	10mW visual fault locator with 650nm wavelength, emit red laser sources to test multi-mode and single mode fiber's bending and breakage, test range 8KM
Stable laser source	
Output wavelength	1550
Output power	-5dBm~0dBm adjustable
Frequency	270Hz/330Hz/1kHz/2kHz

Stability	CW , ±0.2dB/15min (Test after boot for 15min)
Power	
External power supply	Type-C 5V ( 2A )
Battery	Built-in 3.7V Lithium ion battery, 4000mAh.
Rechargeable	After charging 3 hours, normal working time 6 hours
Parameter	
Operation setting	Supported language: English, Chinese, Korean, Russian, Italian, French, Polish, Spanish, Japanese, Deutsch, Turkish, Portuguese, Czech etc
Auto off	5-30 (mins)
Working environment	
Working Temperature	-10°C---+50°C
Working Humidity	30%-90%
Dimension/Weight	162mm x 102mm x 42mm /0.45kg

**Note:\*\*sign means functions are customizable ! The data above is only for reference and any change of them will not be informed in advance. For more detailed technical inquiries, please feel free to contact us**

**注：“\*”号表示功能可定制！以上数据仅供参考，如有变动，恕不另行通知。如需更详细的技术咨询，请随时联系我们。**

#### Packing list

- 1) Tester
- 2) UTP remote kit
- 3) Type-C power cable

- 1) 测试仪
- 2) UTP 远程套件
- 3) Type-C 电源线