TFN F4 SERIES

Make professional testing more convenient

Durable and stable model
Optical time domain reflectometer

F4

Six intelligent functions

OTDR

Visual fault locator

Ethernet test

Remote test

Optical loss test

Optical power test

Design and development for high-demand installation and maintenance troubleshooting

If you encounter such a problem in their lives

Optical fiber communication system engineering acceptance

Optical fiber and optical cable development and production

Optical fiber communication system engineering fault repair

Optical fiber communication system engineering construction test

Display screen

8-inch large screen

Let the observation image quality soar

The interface is no longer boring

F4 is equipped with an 8-inch color LCD screen, the observation image quality is clearer and the display is smoother

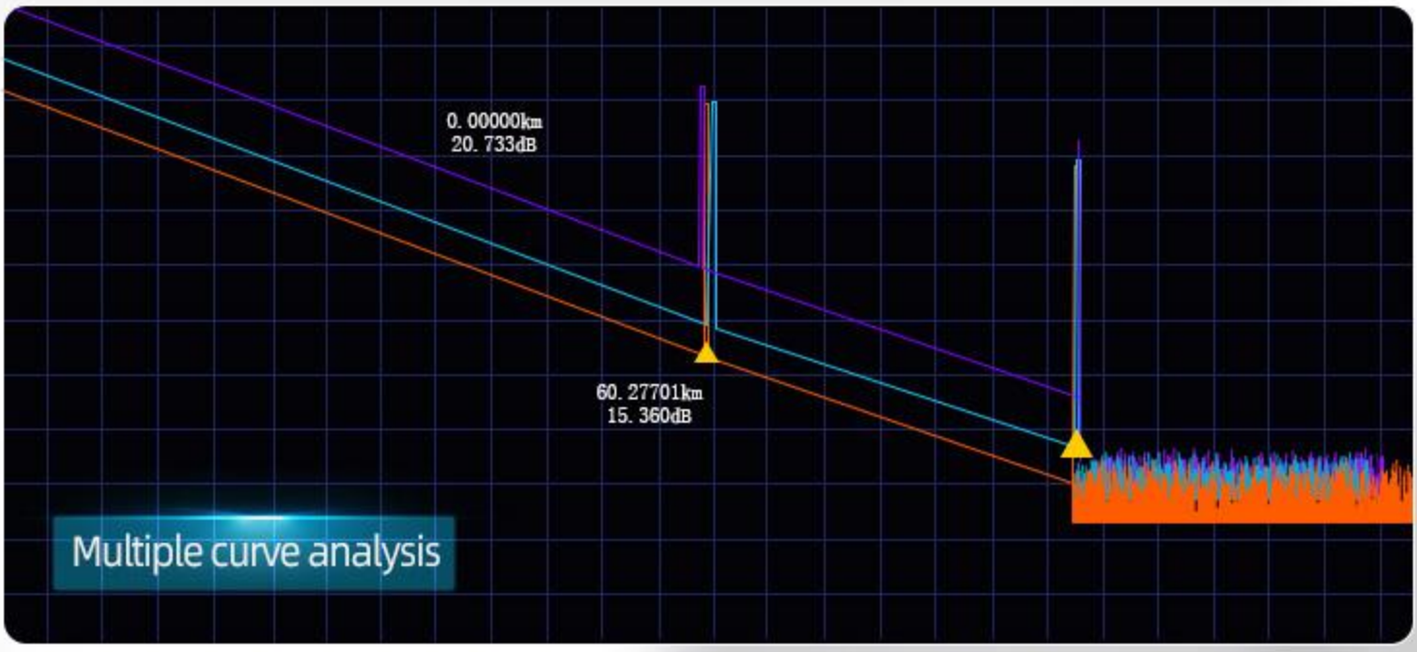

TFN
MENU
F1
F2
F3
F4
F5
OTDR
光损耗测试
OPM
dB/dBm/mW
光功率计
VFL
红光
远程测试
以太网测试
文件管理
帮助
设置
Optical Time Domain Reflectometer

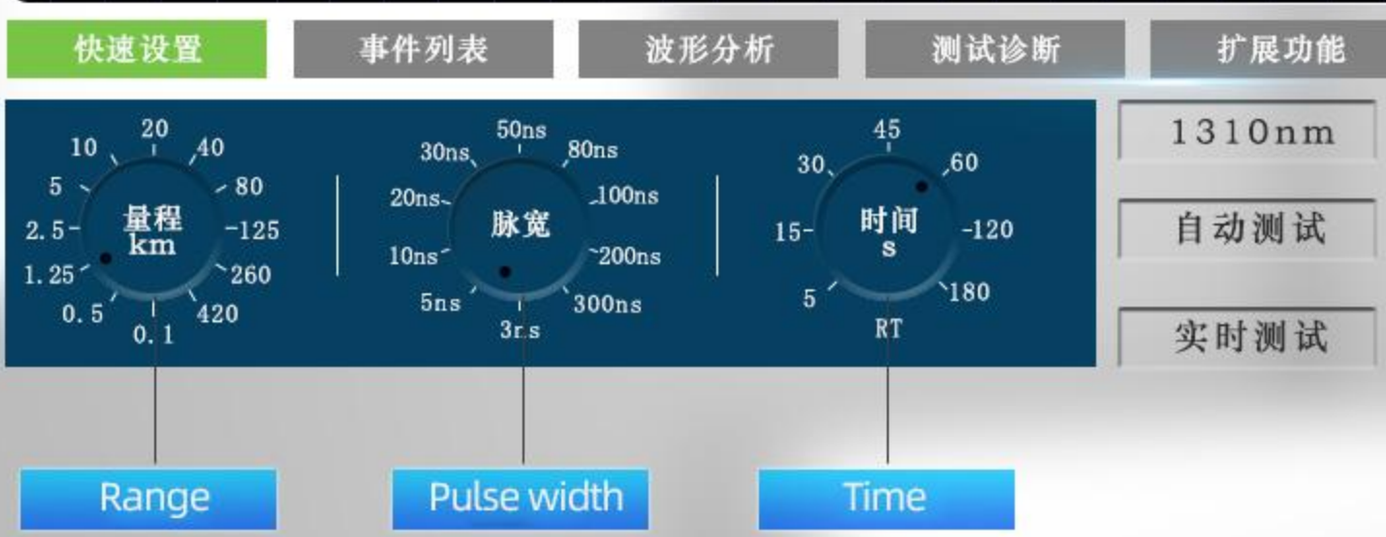
Professional OTDR

Three measurement mode

Dual wavelength test
F4-V2 has a range of up to 200 kilometers

F4 has three measurement modes, namely automatic mode, average mode, and real-time mode. Average measurement will take the average value of several measurements as the display result. Real-time measurement can observe real-time time when installing optical fiber, such as fusion loss and return loss.





Graphical interface allows manual setting of range, pulse width and measurement time

More operation interface display

Optical power meter

Easy to test optical loss

Dual wavelength test
Ensure high-quality transmission of optical signals

The optical power meter function displays the optical power value of the device under test in dBm and mW in real time, and automatically determines and displays the frequency of the device under test (power value>-20dBm)

1310nm

-20.58dBm　　0.70uw

参考功率	相对功率	频率检测
0.00dBm	-31.58dBm	CW

1310nm

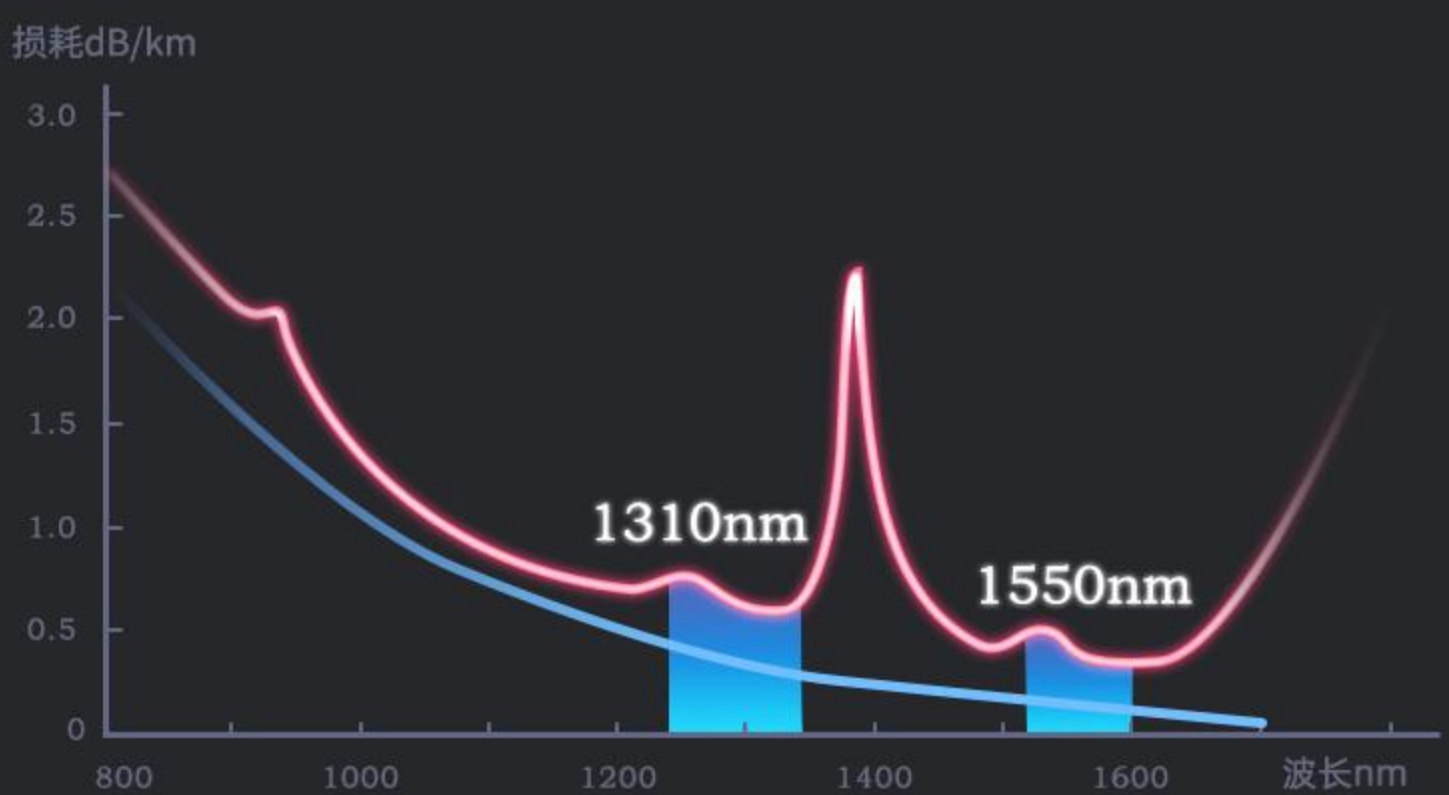
-31.58dBm　　4.76uw

参考功率	相对功率	频率检测
0.00dBm	-31.58dBm	CW

1310nm

-52.60dBm　　5.49uw

参考功率	相对功率	频率检测
0.00dBm	-31.58dBm	CW



Visual Fault Locator

Quickly determine the fault point

Visual Fault Locator

More intuitive observation of breakpoints

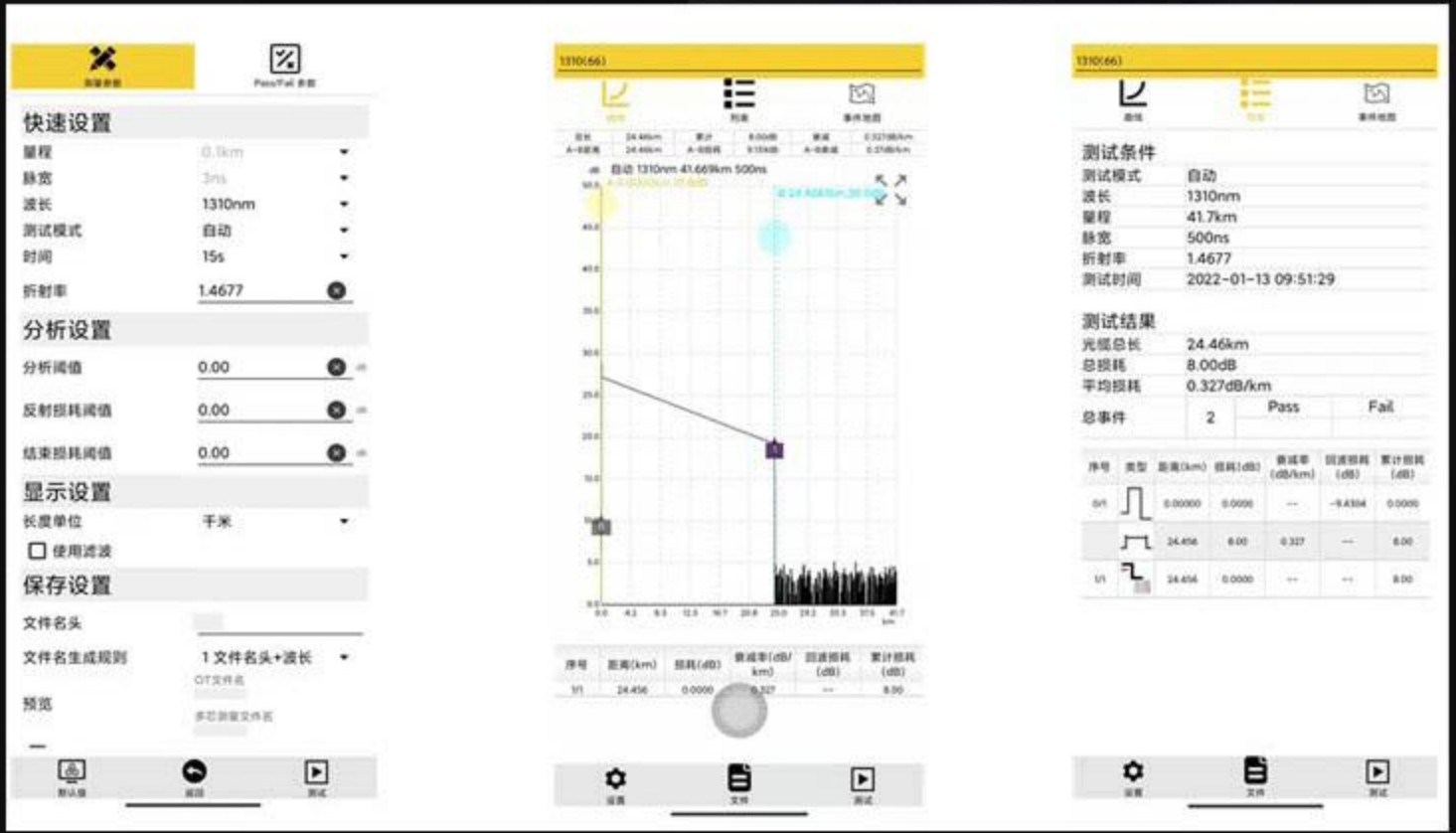

TFN
常亮
1Hz
2Hz
关闭
返回
F1
F2
F3
F4
F5
650nm
VFL
DANGER
常亮
AUTO
ENTER
Optical Time Domain Reflectometer

APP /

Let smart control in the palm of your hand

App-side Bluetooth control device

APP-side can control the OTDR, light source function, optical power meter function, and red light function


快速设置
量程
脉宽
波长
1310nm
测试模式
自动
时间
15s
折射率
1.4677
分析设置
分析阈值
0.00
反射损耗阈值
0.00
结束损耗阈值
0.00
显示设置
长度单位
千米
使用滤波
保存设置
文件名头
文件名生成规则
1 文件名头+波长
预览
测试条件
测试模式 自动
波长 1310nm
量程 41.7km
脉宽 500ns
折射率 1.4677
测试时间 2022-01-13 09:51:29
测试结果
光缆总长 24.46km
总损耗 8.00dB
平均损耗 0.327dB/km
总事件 2
Pass
Fail

Other functions

Stick to millimeters

Guarantee the smooth flow of optical paths

Ethernet test

IP scan and
PING/PPPOE test

Optical loss test

Test optical
component loss

Remote test

Break the
constraints of space

Appearance introduction

1. VFL(入650nm)
2. OPM(OPTIN MAX.+26dBm)
3. OTDR/OCID
4. 0TDR(入=1310nm 入=1550nm)
5. USB
6. Power interface
7. Screen
8. Ethernet interface
9. Ethernet interface
10. Indicator light
11. Button operation area
12. Switch

Technical Parameters

Model / Project	Optical time domain reflectometer			
	F4	F4-V1	F4-V2	F4-SMV
Type	Single mode			Single mode and multimode
display	5.8-inch color LCD screen+touch screen			
Wavelength	1310/1550nm			850/1300/1310/1550nm
Maximum dynamic range ①	35/33dB	42/40dB	45/43dB	26/30/37/35dB
Event dead zone	1m	0.8m	0.8m	1m
Attenuation dead zone	6m	6m	6m	6m
Test range	500m /1km /2km /4km /8km /16km /32km /64km /128km /256km			
Test pulse width	5ns / 10ns/ 50ns/ 160ns/ 320ns/ 500ns/ 1000ns/ 5000ns/ 10000ns/ 20000ns			
Range measurement accuracy	±(0.75m+sampling interval+0.005%xtest distance)			
Loss accuracy	±0.05dB/dB			
Reflection accuracy	±3dB			
Data storage	⩾2000			
Optical port type	FC/PC (interchangeable SC, ST)			
Data interface	USB、mini-USB、10M/100M Ethernet port			
VFL output	⩾5mW			
Light source output	⩾-5dBm			
Optical power meter	+26dBm ～ -50dBm（Replaceable： +6dBm ～ -70dBm）			
Power supply mode	AC/DC adapter: AC: 100V~240V, 50/60Hz, 0.6A Lithium battery: 7.4V 6700mAh, lithium ion			
Operating temperature	-5°C～ 50°C			
Storage temperature	-20°C～ 70°C			
Relative humidity	0-95% non-condensing			
Machine weight	⩽1.1kg			
Volume	227mm×160mm×70mm			

Note:

①Test environment temperature 25°C±2°C, maximum test pulse width, average number of times ≥300 times

②Event blind zone test conditions are minimum range, minimum pulse width, fiber end face reflection loss ≥45dB, typical value

Product Display


TFN
Optical Time Domain Reflectometer
AM9
23052648
2023-06


TFN
00:16
90%
12%
DANGER
IEC 60825-2007
21CFR 1040.10
快速设置
事件列表
波形分析
测试诊断
扩展功能
量程
脉宽
时间
1550nm
自动测试
实时测试
停止
测试
Optical Time Domain Reflectometer