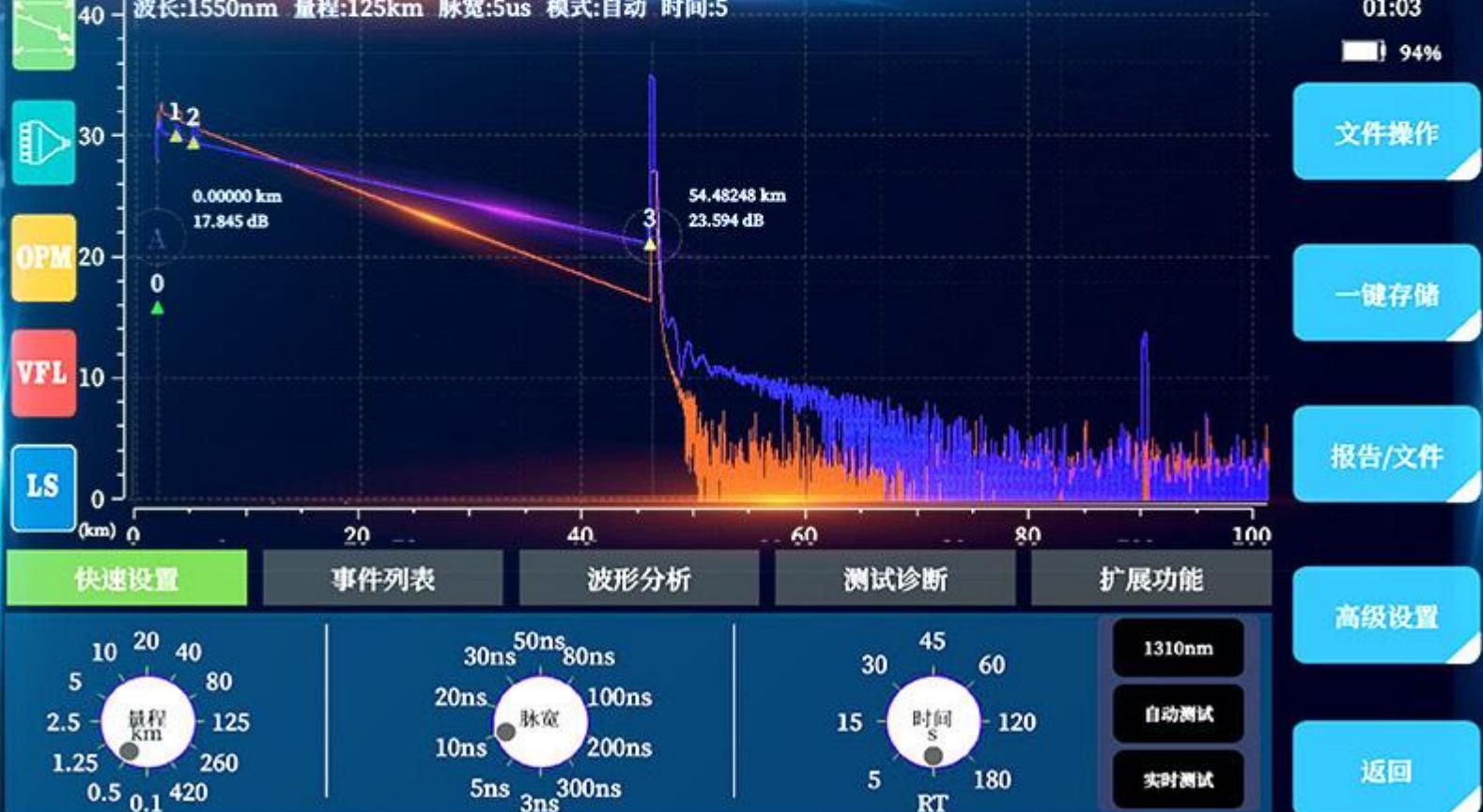


TFN

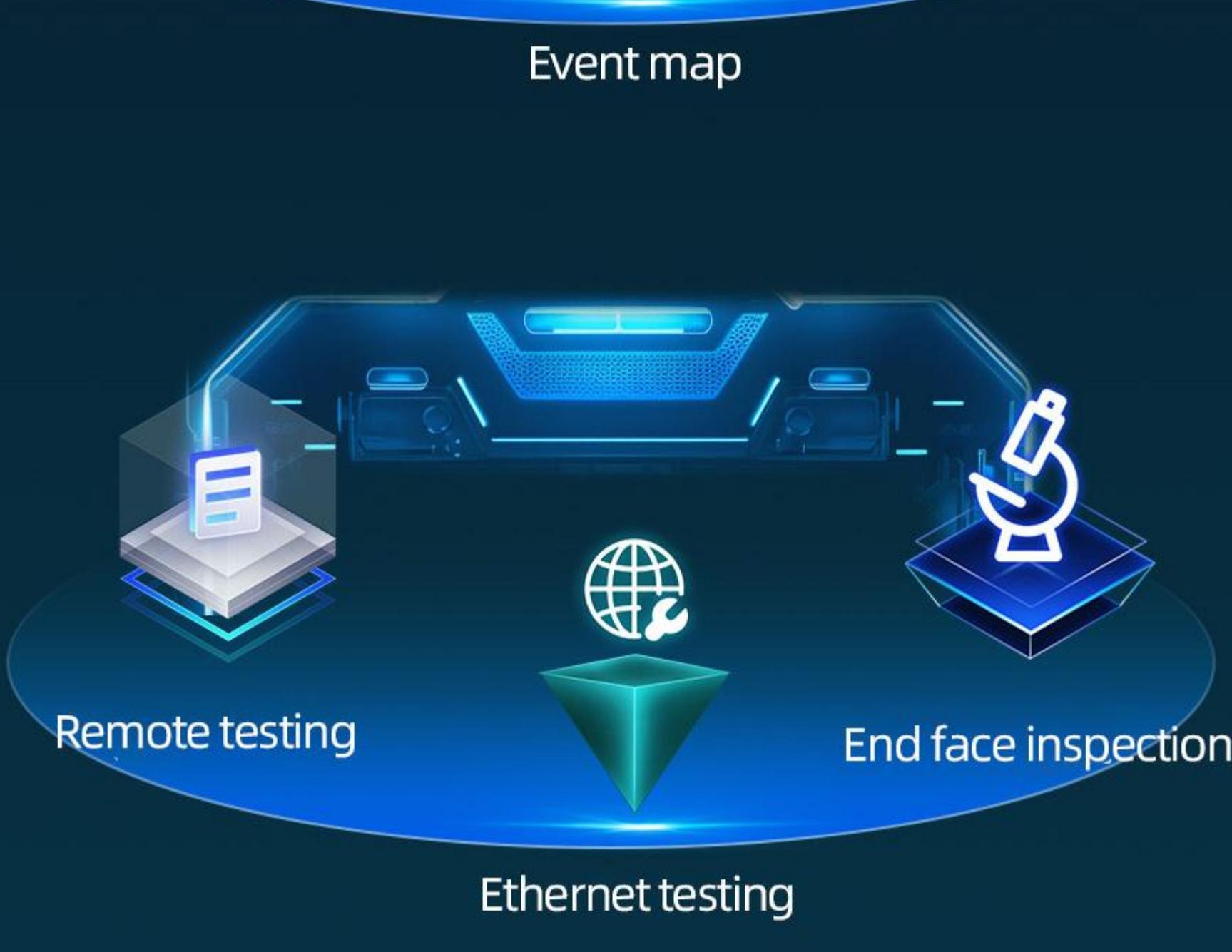
High Performance Optical Time Domain Reflectometer

F7



9 Major Functions

Full coverage of fiber optic network testing



High-precision measurement

Meet high-precision testing requirements

There it solves your problem



Communications operator



Optical cable production
factory inspection



Electric power/railway/high
speed/communication network



Private network construction
and maintenance

Optical cable "CT scanning" tool

There is no escape from difficult faults



High performance processor
Meet OPM / VFL / OLS functions
Multiple modules working simultaneously



Floating viewport

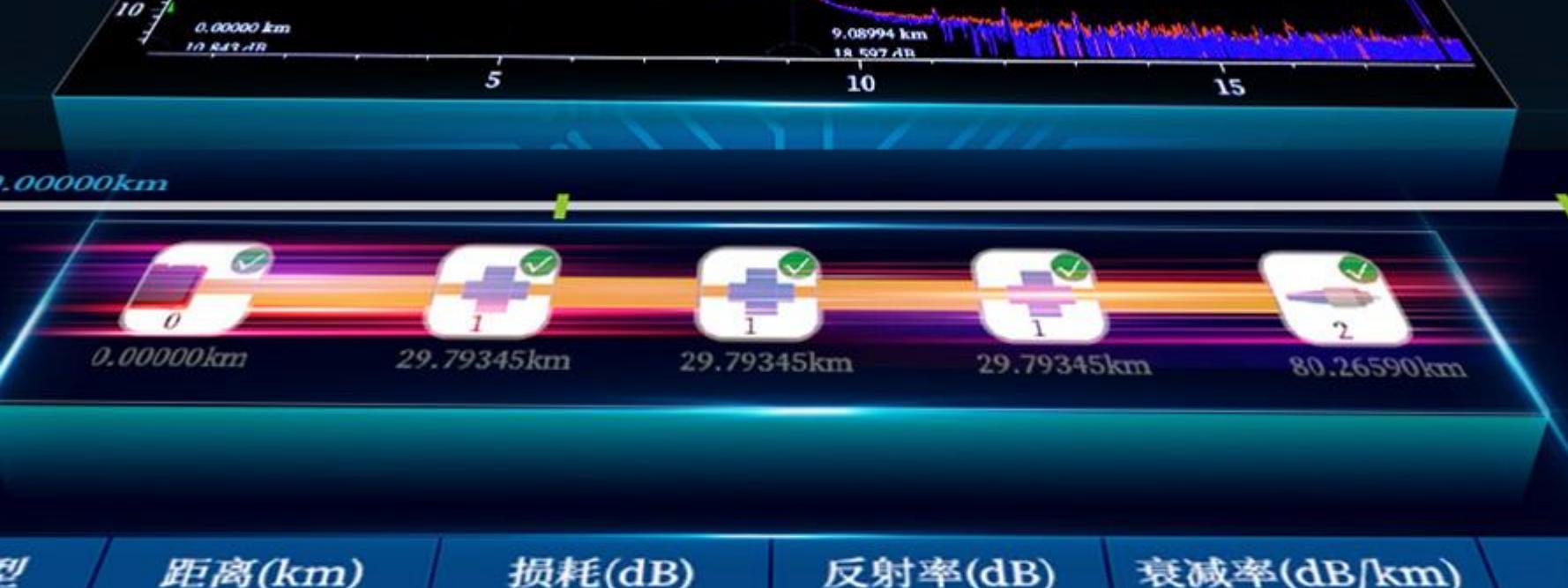
Support multi-function module

Simultaneous display and simultaneous testing



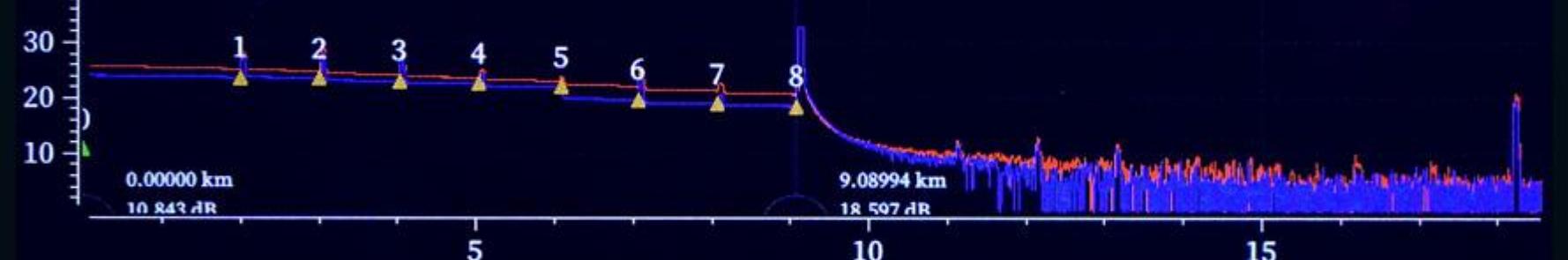
Test curve • Event map • Event list

Three test results Observe simultaneously

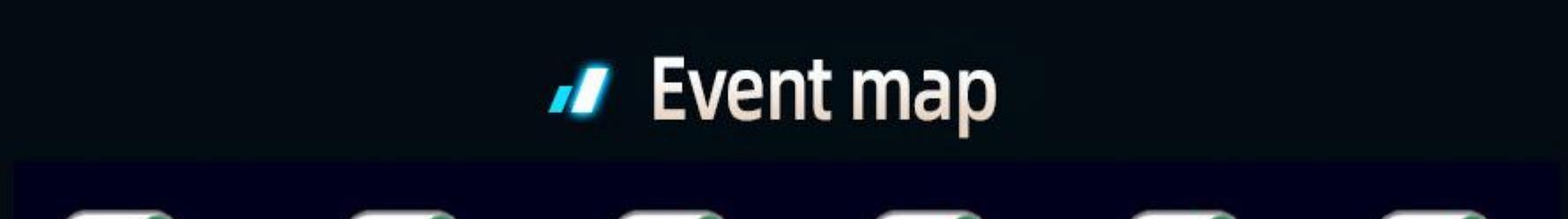


型	距离(km)	损耗(dB)	反射率(dB)	衰减率(dB/km)
	0.00000	0.00000	-43.74426	0.00000
	29.79345	0.82141	-24.96501	0.17870
	80.26590	—	-16.51297	0.18109

Test curve



Event map

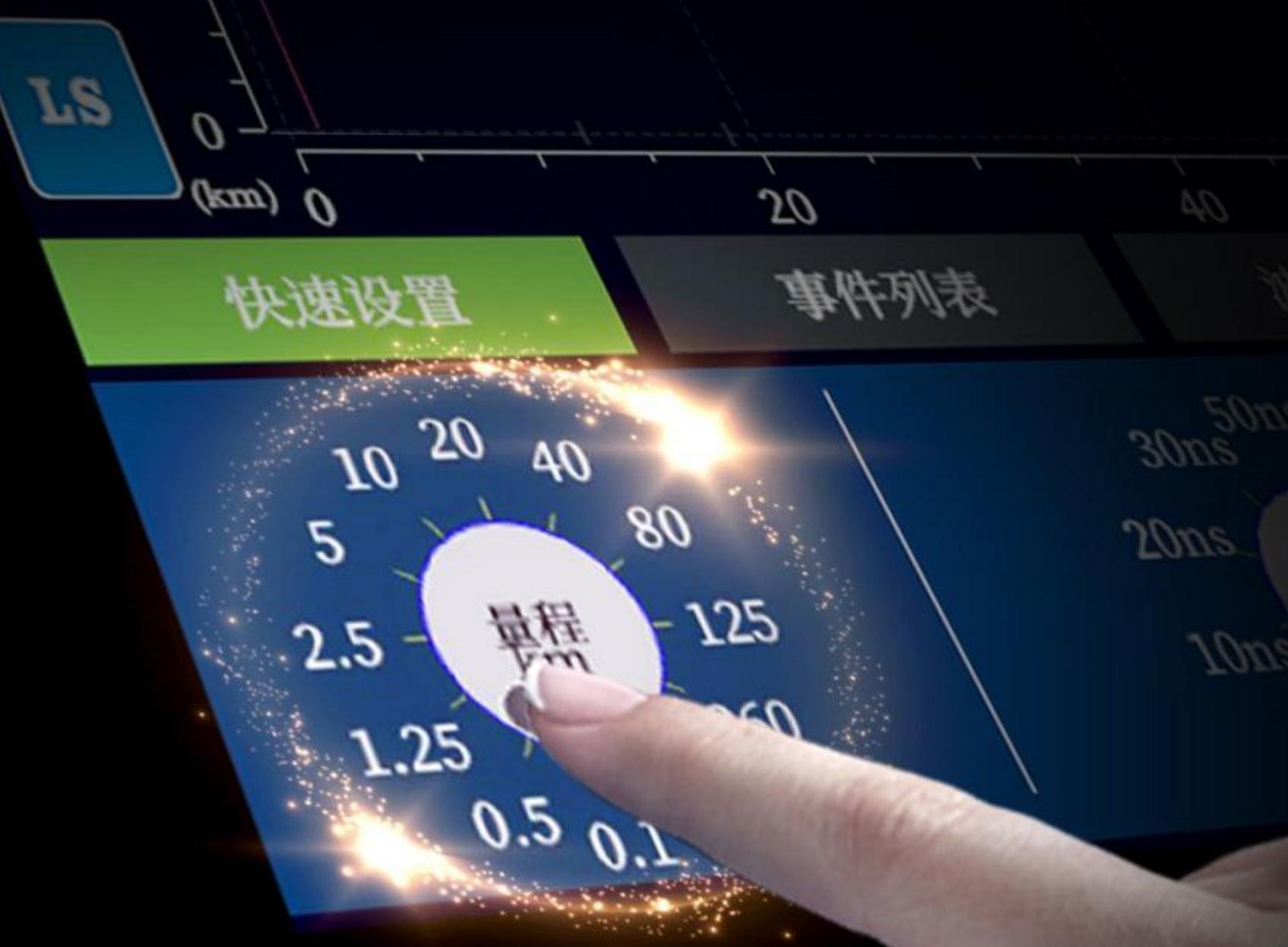


Event list

序号	类型	距离(km)	损耗(dB)	反射率(dB)	衰减率(dB/km)	累积损耗(dB)
0	U	0.00000	0.00000	-43.74426	0.00000	0.00000
1	U	29.79345	0.82141	-24.96501	0.17870	6.15403
2	U	80.26590	—	-16.51297	0.18109	15.28954
2	U	80.26590	—	-16.51297	0.18109	15.28954

Highly sensitive touch screen Respond at the touch of a button

Easily switch between functions

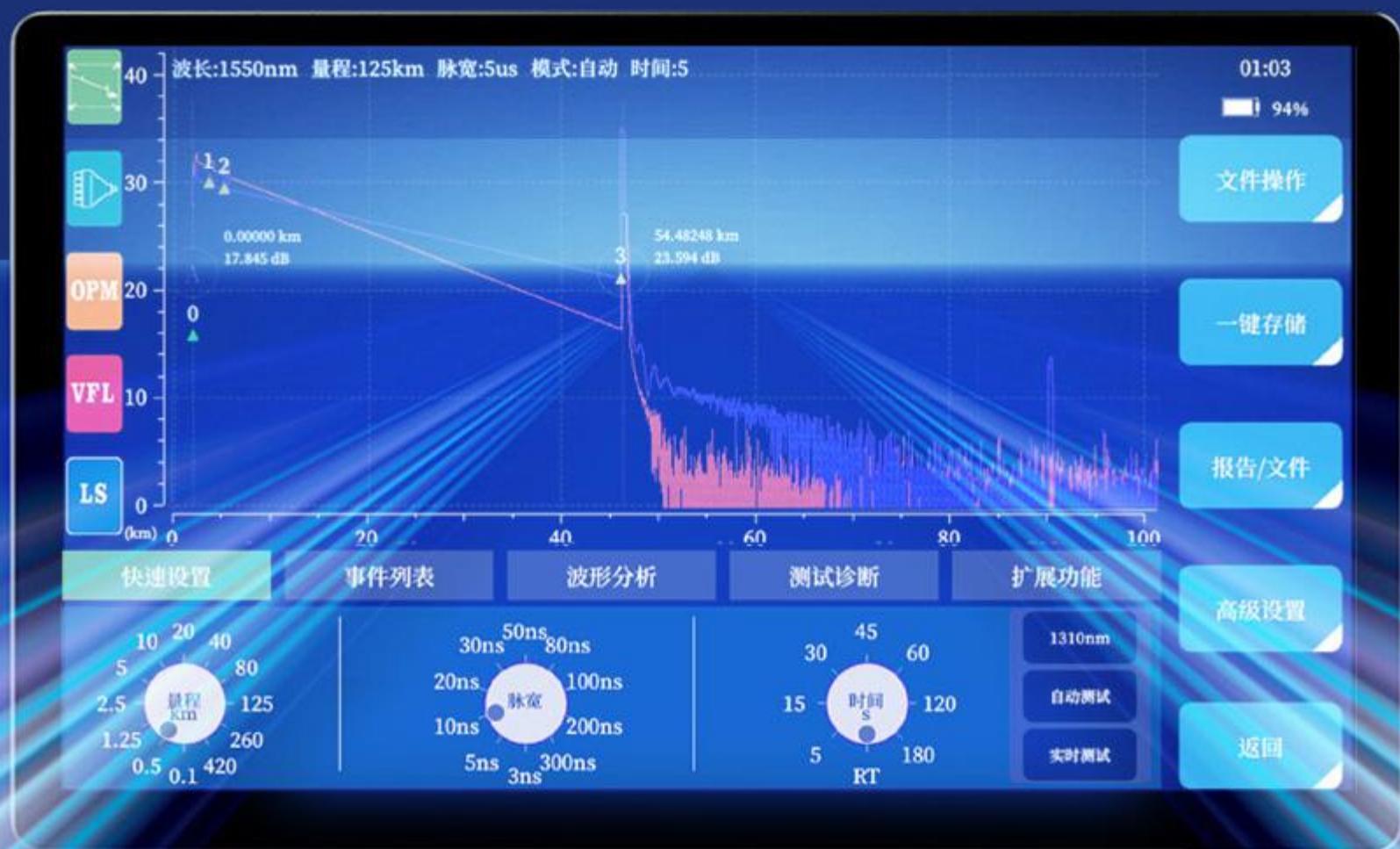


Manual free scaling of curves

Smooth operation without lag



8-inch high definition capacitive touch screen



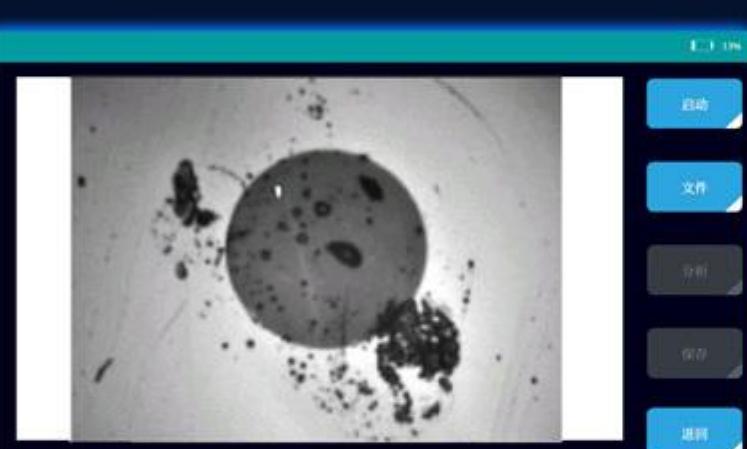
Full-function button dual operation mode

Meet the operating preferences of different customer groups



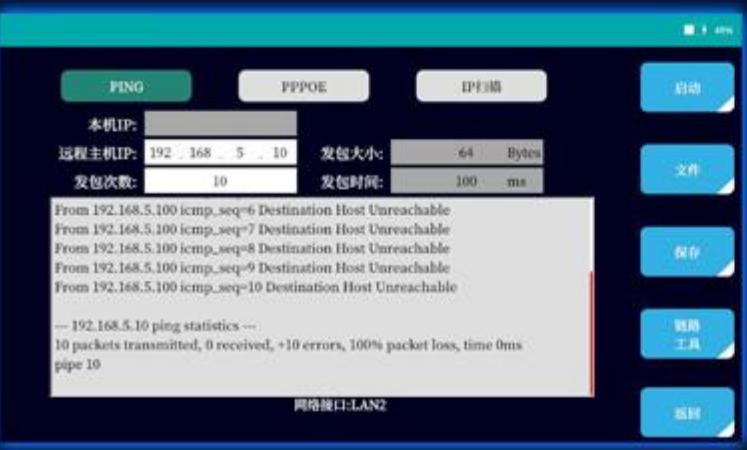
Each function is in-depth

Ensure the light path is clear and unobstructed



End face inspection

Check the cleanliness of fiber end face



Ethernet test

IP scanning and PING/PPPOE test



Optical loss test

Test optical component loss



Remote testing

Break the constraints of space

F7

Appearance and interface introduction

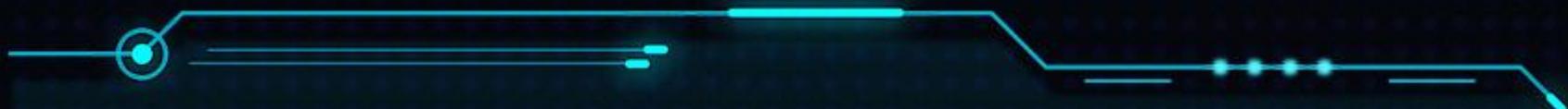


Model breakdown
Different core parameters
Wide range of application scenarios

Single-mode long-distance, multi-mode, single-mode and multi-mode integration
Online three-wavelength test

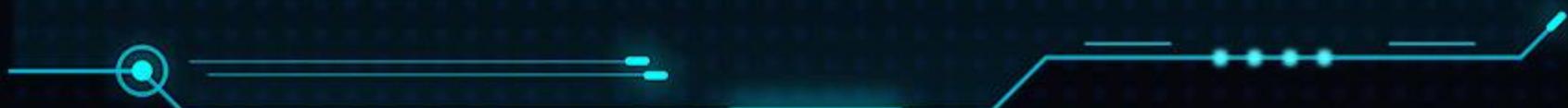


Volume



TFN F7 is a high-performance multi-function test instrument launched for light testing. It has an 8-inch high-definition capacitive screen and full-function buttons. The product starts at a dynamic range of 35/33dB and can achieve a 45dB dynamic range and a test resolution of 0.05m., F7 has a test dead zone as low as 0.8M, and has rich functional configuration modules such as dual-wavelength, three-wavelength, four-wavelength, and single- and multi-mode integration. The optional online test module can realize non-destructive testing of links with light. The unique test result self-diagnosis function ensures the reliability and validity of the test results.

This product can realize various testing functions such as light source, OPM, VFL, fiber end face detection, optical loss test, fault location, optical eye (MAP view), Bluetooth, single-mode and multi-mode testing according to user needs.



Test Function Definition

○ OTDR Function

- a. Launch fiber, end fiber setup
- b. PASS/FAIL threshold judgment, threshold customization function, differentiated display of qualified/unqualified events
- c. Generation of PDF test report
- d. Turn on the comparison viewing function for multiple SOR curves, the default is 5
- e. Four-point method, LSA method and other curve analysis functions

○ Event Map Function

- a. Macro bend fault analysis function and clearly indicates the macro bend event type
- b. PASS/FAIL threshold judgment, threshold customization function, differentiated display of qualified/unqualified events
- c. Generation of PDF test reports (including curve display, list display, test information)

● Visual Fault Locator Function (VFL)

- a. Visual Fault Locator Function (VFL)

● Optical Power Meter Function (OPM)

- a. -70--+6dBm or -50--+26dBm multi-wavelength power detection range supports identification of light source modulation frequency.

● Optical Laser Source Function (OLS)

- a. Generate CW, 270HZ, 1KHZ, 2KHZ laser light sources

● Optical Loss Test Function

- a. Supports light source and optical power meter to be turned on at the same time for testing the insertion loss of devices and links

● Remote Test Function

- a. Remotely connect the instrument via Ethernet to realize remote control of the OTDR function (module OTDR function)

● Network Test Function

- a. Network test functions include PING and IP scanning

● Link Test Function

- a. Link speed test, network line sequence, line length

Other Function Definitions

- A.** Bluetooth function: The mobile APP connects to the device and controls the OTDR, VFL, OPM and test file sending through Bluetooth.
- B.** Quick screenshot (Screenshot): The convenient drop-down window provides a quick screenshot function to record the status of the instrument at any time.
- C.** Power-on password: Users can set, modify, and delete power-on password
- D.** Help: Device built-in help manual document

Interface Function

- A.** Power interface: DC12V-19V, external power input
- B.** Power on and off: Short press for 2S to turn on and off, long press for 8S to force shutdown.
- C.** Power/charging indicator light: The power indicator light is on after powering on, and the charging indicator light is on when charging.
- D.** Network port 1: Reserved for testing network cable length and line sequence functions
- E.** Network port 2: Equipment Ethernet communication interface, which can realize remote instrument testing, network testing, data transmission and other functions
- F.** OPM: Optical power meter interface
- G.** VFL: Visual fault locator interface
- H.** OTDR1: OTDR interface 1, commonly used 1310/1550 optical interface
- I.** OTDR2: OTDR interface 2, multi-mode 850/1300, 1490, 1625 optical interface
- J.** USB-A: External USB flash drive, end face detector
- K.** USB-C (TYPE-C): Connect to computer via data cable to transfer data
- L.** Function indicators: These are the main function indicators of OTDR, OLS, VFL, and OPM. The corresponding indicators light up when the functions are working.

Exquisite appearance

The interface is clear, simple and intuitive



