

TFN-F1 Series Optical Time Domain Reflectometer (OTDR)

——Accurate, fast, reliable and portable



F1 is a high-performance multi-functional test instrument designed for optical fiber backbone networks. The product has a dynamic range of 32/30dB, can achieve a maximum dynamic range of 35dB, a maximum range measurement resolution of 0.05m, and a minimum test blind zone of 1m. It has dual wavelengths, three wavelengths, four wavelengths, and single and multi-mode integration. Configuring functional modules, the optional online test module can realize non-destructive testing of links with light, and the unique self-diagnosis function of test results greatly ensures the reliability and validity of test results.

This product can realize various testing functions such as OTDR, VFL, single-mode and multi-mode testing according to customer needs.

This product adopts dual operation modes of touch and button. It has rich external interfaces. It can realize remote control through Ethernet interface, and can also realize external U disk, printer and data communication with PC through two different USB interfaces.

Main Feature:

- Ultra-short event blind zone less than 1m, making it easy to test fiber jumpers;
- Integrated 4.3-inch color TFT LCD display, dual button/touch operation.
- Dynamic range: F1:32/30dB F1K:35/33dB
- Built-in visual red light fault location (VFL)
- Has unique self-diagnosis function of test results;

- It has independent and convenient one-button fully automatic operation mode and real-time test function buttons;
- With multi-wavelength synchronous test function;
- With multi-waveform viewing function;
- Non-destructive testing of link with light (online test module);
- Has automatic communication light monitoring function;
- Has the function of wireless transmission of test files;
- Battery low voltage alarm function;
- WinCE window operating system, Chinese operation interface; other languages are optional

Technical Specifications:

- F1/F1K

Model	F1/F1K
Ranging accuracy	± (1m+sampling interval+0.005%*distance) (excluding refractive index insertion error)
Center wavelength (± 20nm)	1310/1550
Dynamic range(dB)	F1:32/30 F1K:35/33
Test range	0.5、 1、 2、 4、 8、 16、 32、 64、 128、 256KM
Event dead zone	1.0m
Attenuation dead zone	8.0m
Test pulse width	10ns、 30ns、 50ns、 100ns、 275ns、 500ns、 10μs、 50μs、 100μs
Test pulse width	10、 30、 50、 275、 500、 1000、 5000、 10000ns
Loss threshold	0.01dB
Sampling points	128K
Loss resolution	0.01dB
Reflection measurement accuracy	± 4dB
Waveform storage capacity	≥ 1000
Fiber type	Single mode fiber
External interface	USB、 Min-USB、 RJ-45
Optical output interface	FC/SC/ST(Replaceable)
VFL	650nm ± 10nm, ≥ 5mW(typical)
Display	4.3-inch color LCD touch screen
Battery	7.4V/6300mAh lithium battery pack, supports up to 12 hours of continuous working time
Power supply	Output: 19V, 1.31A
Adapt to environment	Working temperature: -5 to +50 ° C, storage temperature: -20 to +70 ° C, relative humidity: 0-95%, no condensation
Dimensions (length × width × height)	208mm × 110mm × 56mm
Weight	< 1kg
Language	Chinese, other languages (optional)