

## XFO 4000 Optical Time Domain Reflectometry



### Features

- Handheld device, light, easy to carry, solid and durable Color LCD display
- Able to transfer data to PC via USB cable
- Intelligent battery power volume indicator and auto power-off at low voltage
- Visual window operating interfaces in both Chinese and English VFL (visual fault location)

### Overview

OTDR handheld Optical Time Domain Reflectometry is a new generation of intelligent optical-fibre communication instrument. It is able to display the loss distribution curves of optical fibers and optical cables, measure the attenuation factors of optical fibers and optical cables, loss between points and at joints. It is also able to measure the length of optical fibers and optical cables, the distance between two points, identify the connecting, fault, and disconnecting locations of optical fibers and optical cables. It is widely used in the construction, maintenance, measurement, emergency repair of optical-fibre communication system works; also used in the development, manufacturing and measurement of optical fibers and optical cables:

Main functions of the instrument:

- Measure length of optical fibre.
- Measure the distance between any two points in the curves of optical fibre.
- Measure and display the loss between any two points in the curves(dB).
- Measure and display the connecting loss at the joints of the curves (this function is not available in Optical-fibre Fault Finder). Measure the value of reflection loss (this function is not available in Optical-fibre Fault Finder).
- Measure the distance between two event points (this function is not available in Optical-fibre Fault Finder).
- Measure the loss between two event points (this function is not available in Optical-fibre Fault Finder).
- Measure the average loss between two event points (this function is not available in Optical-fibre Fault Finder).
- Measure waveform storage. Indicate the power volume of intelligent batteries.
- Work as a real-time measurement instrument, this increases the convenience on observing real-time connecting effects of fiber.

## Specification

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| Central wave length                      | 1310nm/1550nm $\pm$ 20nm   |
| Type of compatible applicable fibers     | single-mode  |
| Dynamic range                            | 30/32dB(100-150km)   |
| Min. event dead zone                     | 1.6m(single-mode)  |
| Ranging accuracy                         | $\pm$ (1m+sampling interval+0.003% $\times$ distance) (excluding refractive index imbedding error) |
| Resolution of ranging                    | 0.1m-16m   |
| Loss threshold value                     | 0.01dB   |
| Linearity                                | 0.05dB/dB  |
| VFL output power                         | 5mW  |
| Measurement range                        | 4, 8, 16, 32, 48, 64, 128, 256km(single-mode)  |
| Pulse width                              | 10, 30, 80, 160, 320, 640, 1280, 2560, 10240ns   |
| Number of sampling points                | 65K  |
| Waveform storage capacity                | 1000 frames  |
| Range of refractive index                | 1.00000~2.00000  |
| Range of optical-cable correction factor | 0.80000~1.0000   |
| LCD display                              | 640 $\times$ 480, 5.1" color LCD   |
| Optical output port                      | FC/PC  |
| Power supply                             | AC input: 100V~240V(1.5A) Output DC: 9V(2A)  |
| Menu language                            | Simplified Chinese/English   |
| Environmental requirements               | Storage temperature: $-40\sim 70$ humidity: 5%—95%, no condensation                                |
| Dimensions                               | 215mm $\times$ 130mm $\times$ 66mm   |
| Weight                                   | About 1kg  |