



Transferline Microwave
Engineer's RF Partner

TL2000 MINI OTDR

Datasheet



Product Overview

The TL2000 Mini OTDR has a 7-inch capacitive full touch screen and integrates automatic OTDR, expert OTDR, event map, OPM, VFL, LS and other functions. The OTDR has a maximum dynamic range of 28dB and can achieve accurate testing up to 100km. It can achieve a minimum event dead zone of 2m and a maximum sampling resolution of 2.5cm. The OTDR is equipped with 4600mAh high density and large capacity polymer lithium battery, intelligent power saving management as well as power supply/charging by a power bank .

The TL2000 can be used to measure length, loss, connection quality and other parameters of all kinds of optical fiber and cable. It is widely used in the engineering construction, line maintenance and emergency rescue test of FTTH, MAN and secondary backbone network communication system, as well as the development and production measurement of optical fiber and cable.

Main Features

- ◆ Max. 28dB dynamic range, 256k data sampling point
- ◆ Automatic monitoring function of communication light
- ◆ Support Bellcore GR196 and SR-4731file format
- ◆ Expert OTDR: Simultaneously display of expert measurement, curve, list, MAP
- ◆ Light source which supports continuous/modulated mode output
- ◆ Automatic OTDR: One-click test with no complicated setup



Specifications

Items	TL2000
Dimension	177mm×109mm×37mm (Length×Width×Height) (the soft glue protection is not included)
Weight	About 0.8kg (with battery)
Working wavelength	1310/1550±20nm
Max. dynamic range	28dB
Event dead zone	3m
Attenuation dead zone	8m
Accuracy (m)	± (0.75m + distance×0.0025% + sampling period) (Regardless of refractive error) (m)
Resolution (m)	0.025, 0.05, 0.1, 0.2, 0.5, 1, 2, 4, 8, 16, 32
Distance (km)	0.4, 0.8, 1.6, 3.2, 6.4, 16, 32, 64, 128, 256, 512
Pulse width (ns)	5, 10, 30 ,80, 160, 320, 640, 1280, 5120, 10240, 20480
Max. sampling point	256k
Linearity (dB/dB)	0.03
Loss resolution (dB)	0.001
Refractive index setting range	1.00000 to 1.99999(0.00001 stepping)
Distance unit	Kilometers, meters, thousands of feet, feet
Display	800×480, 7 "TFT Color LCD(capacitive touch screen)
Optical output port	FC/UPC (standard, SC/UPC is optional)
Language	Simplified Chinese, English (please contact us for more language support)
External port	USB Type C, Micro SD
Power supply	AC/DC adapter: Input: AC100V to 240V, 50/60Hz Output: DC/5V/2A Internal lithium battery: 3.7V, 4600mAh
Battery working time	High brightness, standby time≥6h
Environmental suitability	Working temperature: 0°C to +40°C(battery charging: 5°C to 40°C) Storage temperature: -20°C to +60°C(battery: -20°C to 60°C) Relative humidity: 5% to 95%, no condensing

- VFL (standard)
Working wavelength: 650nm±20nm
Output power: 2mW(typical)
Working mode: CW, 1Hz, 2Hz
- OPM (standard)
Wavelength: 850nm to 1650nm
Power: -60dBm to +3dBm
Uncertainty: ±5%(-25dBm、CW)
- LS (standard)
Working wavelength: same as OTDR
Output power: ≥-5dBm
Working mode: CW, 270Hz, 1kHz, 2kHz

Ordering Information

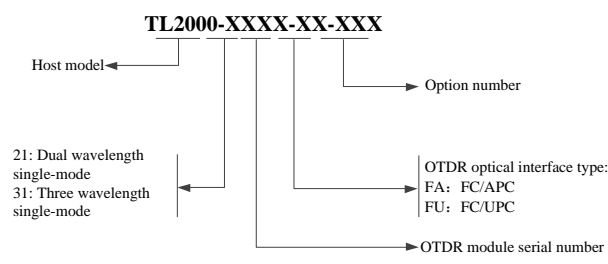
- Main unit: TL2000 OTDR
- Standard:

No.	Name	Comment
1	TL2000 OTDR	Internal lithium battery
2	Power cord assembly	Input: AC100V to 240V, 50/60Hz Output: DC/5V/2A
3	TF card	16G capacity, installed internally with analysis software
4	User's Manual	-
5	Certificate of conformity	-
6	Soft bag	-

- Options:

No.	Name	Comment
TL2000-001	SC adapter	-
TL2000-002	ST adapter	-

- Ordering information:



Due to design improvement, the above contents are subject to change without prior notice.