

Multi-purpose TDR for optic & metallic cables

(Model No: OMTDR-1000)

Introduction

In today's complicated network of optical cable mixed with copper cable, its analysis becomes vital for installation and maintenance of this network. With the novel concept of 'Two in One' TDR (Time-Domain Reflectometry) instrument, NanoTronix presents OMTDR-1000 (Optical and metallic TDR in one instrument) to meet this customers' needs. By integrating OTDR (Optical TDR) function into NanoTronix' metallic TDR (Model No.: mTDR-070), the instrument boost your bottom line by providing integrated, easy-to-use and highly economical testing environment for either or both optical network and copper cable network.

The OTDR function can be used for analyzing the physical condition of optical fibers in the installation and maintenance of optical communication networks. It provides users with the complete information on the attenuation and reflective or non-reflective loss of optical fibers so as to locate faults, connectors and splices along the fibers.

The MTDR function is suitable for installation, maintenance and fault-finding (complete open & short, partial open & short, loading coils, loose connection, broken lines etc.) of metallic cables such as CATV, CCTV, Coaxial cables, Power cable, Telephone line and UTP cables whatever consists of at least two conductors.

OMTDR-1000 will provide network installers and maintenance personnel with a complete solution for testing, certifying and documenting the mixed network (especially HFC and FTTx networks) in any industrial sites.

Features

- Two in one OMTDR (mini OTDR + MTDR)
- Extremely economical multi purpose TDR for both optic cable and copper cable
- Easy-to-use, light-weight and compact
- 6.4" TFT Color LCD display
- RS-232C/USB data upload port
- LCD indicator for battery time
- PC software for further analyzing, reporting and printing
- Selectable auto-off time
- Waveform trace and diagnosis
- Rugged and waterproof packing
- Optional spare battery for doubling operating time
- Suitable for FTTx network

Two in One
OTDR + MTDR



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<p>Metallic specifications</p>	<p>Maximum range Coax. : 3.2m ~ 20,000m (10.4ft ~ 65,000ft) *Maximum testable cable length will vary with pulse width and cable type Maximum display resolution 10cm (Variable up to 50m) Accuracy 0.1m ± 0.01% of reading for Coax. *Accuracy will vary with VOP of cable being tested Test mode L1, L1&M, L1-M, M Pulse width (ns) 5, 15, 45, 100, 200, 500, 1,000, 2,000, 5,000, 10,000ns Display 320x240 pixel back-lit LCD Maximum storage capacity 100 waveforms internal memory 256Kbytes Communication port RS-232C compatible (1 start bit, 8 data bits, 1 stop bit and no parity and 38, 400 baud rate) Output impedance Automatic output impedance control of 25, 50, 75, 100, 125, 150Ω Input bandwidth 300MHz Effective sampling rate 1GS/s Gain 0 to 66dB or better, maximum sensitivity 1mV (full scale) Screen update rate Maximum 3 times per second VOP (PVF) Variable from 30.0 to 99.9% (in 0.1% step) V : 90 to 300m/μs V/2 : 45 to 150m/μs Input protection 250V AC-60Hz Connector BNC female Operating time 6 hours Recharge time 4 hours</p>
<p>General specifications</p>	<p>Power Supply 12V NiMH chargeable battery 4000mAh/AC adapter Battery Life 3 hours (can be extended up to 6 hours by using extra spare battery) Adaptor Input Voltage : AC 110 ~ 240V (auto adjusting) Frequency : 50/60Hz (auto adjusting) Adaptor Output Voltage : DC 14V (+5%) Current : Max.1A Data Transmission RS-232C/USB port Operating Temperature -15°C ~ +50°C Storage Temperature -20°C ~ +70°C Relative Humidity < 95% Weight 2.7kg Dimensions (H× W ×T) 247mm(9.7")×267mm(10.5")×127mm(5")</p>
<p>Optical specifications</p>	<p>Dynamic Range (dB) 20dB Wavelength (±20nm) 1310nm, 50 km / 1550nm, 80 km Display Type 6.4" Color TFT LCD Fiber Type Single-mode Connector Type FC/PC or SC/PC Minimum Display Resolution 50cm Measurement range 5, 10, 20, 50, 100km Pulse Widths (ns) 50, 100, 200, 500, 1000, 2000, 5000, 10000 Average Time 10s, 20s, 1min, 2min, 3min Attenuation deadzone 30m Event deadzone 15m Distance Measure Accuracy 10cm ±0.1% of reading < 100m ±0.1% of reading >100m Reflection Detect Accuracy ±4dB Attenuation Detect Accuracy ±0.1dB Measurement Data Storage 50 curves</p>

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