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

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Metallic specifications	Maximum range	Coax. : 3.2m ~ 20,000m (10.4ft ~ 65,000ft)
	*Maximum testable cable length will very 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
General specifications	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%) Currenct : Max.1A
	Data Transmission	RS-232C/USB port
	Operating Temperature	-15℃~+50℃
	Storage Temperature	-20℃~+70℃
	Relative Humidity	< 95%
	Weight	2.7kg
	Dimensions (H× W ×T)	247mm(9.7")×267mm(10.5")×127mm(5")
Optical specifications	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
	DistanceMeasure Accuracy	10cm ±0.1% of reading < 100m ±0.1% 0f reading >100m
	Reflection Detect Accuracy	±4dB
	Attenuation Detect Accuracy	±0.1dB
	Measurement Data Storage	50 curves

Subject to Change,

Marketed by -
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