LAN Cable Tester
Hand-held TDR (Time Domain Reflectometer) Model : mTDR-020

Introduction

NanoTronix LAN Cable Tester (Model No.: mTDR-020) is a pocket-sized and easy-to-use LAN cable tester which is the ideal instrument for those managing LAN and metallic telecom cable networks with lowest cost. Nanotronix LAN Cable Tester provides accurate measurement for locating faults and measuring the length of any type of paired (shielded or twisted) metallic cables such as category 5/6 UTP cables, Telephone and Coaxial cables.

Together with the fault or length measurement, NanoTronix LAN Cable Tester pinpoints ill-pairings of LAN cables: open, short, reversed, crossed and split pairs. It also offers the office Identifier which allows users to find the termination of office cable drops in wiring closets (optional office Identifier plugs required). This feature provides a favorable environment for office network installation with hubs. Tone generating function and included free inductive probe allows users to verify cable's continuity and trace the cable in walls, floors and ceilings.

Rugged and affordable NanoTronix LAN Cable Tester is the ideal tool for on-the-spot cable testing. It is the all-in-one tester which meets the needs of every cable contractors, installers and technicians at lowest cost.

NanoTronix LAN Cable Tester is housed in a rugged ABS enclosure which is dust and weatherproof to IP 42. The instrument also comes with a soft carrying case and alligator clip adapter. It is powered by batteries, which are stored in a compartment on its back.

Features

▶ Low cost numeric LAN Cable Tester
▶ High resolution and high accuracy
   - Resolution : 5 cm (2 inch)
   - Accuracy : ± 1% of reading ±10 cm (4 inch)
▶ LAN cable fault detection for open, shorted, crossed, split and reversed pair
▶ Overload voltage protection : displays "OUCH" alert message with sound when line voltage exceeds 6.5V
▶ Internal VOP library for 39 standard cable types

▶ Built-in tone generator for cable tracing & identification (oscillating 910 to 1100 Hz with 5V peak to peak)
▶ 20 additional library memory spaces for new VOP settings
▶ Automatic VOP calculation
▶ Free standalone inductive probe
▶ Extra-large backlit (icon type 7 segment) LCD
▶ One remote identifier for wiremapping
▶ Safety protection (up to 250V RMS)
▶ FCC & CE certified

Technology at the speed of light

Performance	Measurement range	UTP Cable (CAT 3, 4, 5, 5e & CAT 6), Coaxial and Telephone cable
	Minimum display resolution	300m (984 ft)
	Accuracy	5 cm (20 inch)
		± 1% of reading ±10 cm (4 inch)
	Automatic power off	30 minutes with no key touched
Interface	User interface	Extra-large backlit (ICON type 7 segment) LCD
	Connector type	BNC & RJ45
	Internal library	39 standard cable types
	Additional library	20 additional library memory spaces for new VOP settings
	VOP	Adjustable from 1.0% to 99.9% (in 0.1% step)
Power supply	Battery	4 AA Batteries (LR6)
	Battery life	Approx. 5,000 tests
Safety	EMC	BS/EN 61326-1
	Sefety	Complies with IEC 61010-1
Environment	Operating temperature	−18°C ~ +60°C (0°F~ +140°F)
	Storage temperature	−20°C ~ +70°C (-4°F~ +158°F)
	Humidity	85% at 35°C (95°F)
Dimensions	Height	235mm (9.2")
	Depth	44mm (1.7")
	Width	100mm (3.9")
	Net Weight	486g (17oz)

* Except where otherwise stated, this specification applies at an ambient temperature of 20°C(68°F).
* NanoTronix Co., Ltd. reserves the right to change the specification or design without prior notice.

Applications

- UTP cable (CAT 3/4/5/5e/6)
- Telephone line and coaxial cable
- Any paired (shield or twisted) metallic telecom cable

NanoTronix LAN Cable Tester (Model No.: mTDR-020) is primarily designed for LAN installer, cable wholesalers, retailers, contractors, electricians, cable installers and alarm installers who need to troubleshoot and measure individual line faults (open and short), pairings, and their distances.

Automatic VOP calculation

NanoTronix LAN Cable Tester (Model No.: mTDR-020) presents automatic VOP calculation allowing efficient measurement for all types of cables - providing auto calculation of VOP of a sample cable: a sample of 10 meters (30 feet) enables even inexperienced technicians to set up and conduct standardized tests to get perfect results every time.
Additional 20 memory spaces are available for storing new VOP settings, which let technicians to conveniently save the VOP values of frequently worked cables for future usage.

Nonvolatile memory

Internal VOP library : 39 standard cable types
Additional library : 20 additional library memory spaces for new
                    VOP settings

Standard Accessories

① Soft carrying case
② Alligator clip
③ RJ45 to RJ45 female coupler
④ RJ45 to RJ45 patch cable
⑤ Female RJ45 to female BNC
   (Remote identifier #1 only)
⑥ Male BNC to female RJ45 adaptor
⑦ User's manual
  * A battery pack is built into the instrument

Optional Accessories

① Female RJ45 to female BNC
   - Remote Identifier #2
   - Remote Identifier #3
   - Remote Identifier #4
② Inductive probe for tone generator

Warranty

1 year from the date of purchase