

## Hand-held TDR (Time Domain Reflectometer)

# LAN Cable Tester<sup>Plus</sup> [Model No.:mTDR-030]

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iNanoTronix LAN Cable Tester<sup>Plus</sup> (Model No.: mTDR-030) is a combination unit that utilizes MTDR(Metallic Time-Domain Reflectometry) technology used in measuring cable distance and TCP/IP protocol analyzer for examining internal conditions of LAN communication lines.

To improve the efficiency on LAN cable management, LAN Cable Tester<sup>Plus</sup> also has a pairing check function used for pinpointing the ill connection of LAN connectors (open, short, reversed, crossed and splitted) and a tone probing function used for tracing cable in the walls, floors and ceilings.

LAN Cable Tester<sup>Plus</sup> is ideally suited for work on installation of networks and for ongoing maintenance and service to any type of paired (shielded or twisted) metallic cables such as category 5/6 UTP cables, Telephone lines, Coaxial cables and LAN systems. Its' all-in-one testing capabilities meets the needs of every cable contractors, installers and technicians at lowest cost.

LAN Cable Tester<sup>Plus</sup> is housed in a rugged ABS enclosure designed to deliver water-resistant performance and provides technicians with the added convenience of being hand-held. It is powered by four AA(NEDA 15A or LR6) batteries, which are stored in a compartment on its back.



### • Features

- ▶ Low cost hand-held LAN Cable Tester
- ▶ High resolution and high accuracy
  - Resolution : 5cm(2 in)
  - Accuracy :  $\pm 1\%$  of reading  $\pm 10\text{cm}$  (4 in)
- ▶ TCP/IP protocol analysis
  - Service of the environment of static IP address or DHCP(Dynamic Host Configuration Protocol)
  - Service of assigning MAC address by itself
- ▶ LAN cable fault detection for open, shorted, crossed, split and reversed pair
- ▶ Built-in tone generator included a free inductive probe allows you to verify cable's continuity and trace the cable in walls, floors and ceilings
- ▶ Auto fitting function for the various cable measurement
- ▶ Extra-large backlit (icon type 7 segment) LCD
- ▶ Easy-to-use test modules
- ▶ 20 additional library memory spaces for new VOP settings
- ▶ Overload voltage protection : Displays "OUCH" alert message with sound when line voltage exceeds 6.5V
- ▶ Low power consumption with long battery life : 5,000 tests

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<b>Performance</b>	Measurable cable	UTP Cable ( CAT 3, 4, 5, 5e & CAT 6 ), Coaxial and Telephone cable
	Minimum display resolution	5cm
	Accuracy	±1% of reading ±10cm
	Measurement range	300m (984ft)
	TCP/IP protocol analysis	Service of the environment of static IP address or DHCP(Dynamic Host Configuration Protocol)
	LAN pair check	Service of assigning MAC address by itself
	Additional library	Open, Short, Crossed, Split, Reversed pair
	VOP	20 additional library memory spaces for new VOP settings
	Tone Generation	Adjustable from 0.1% to 99.9% ( in 0.1% step) 1kHz, 5V pulse
		Free inductive probe allows you to verify cable's continuity and trace the cable in walls, floors and ceilings
		Upon 10 minutes of inactivity
		Automatic power off
<b>Interface</b>	Connector type	RJ45 & BNC
	LCD display	Extra-large backlit(ICON type 7 segment) LCD
<b>Power supply</b>	Battery	4LR6(AA)
	Battery life	Approx. 5,000 tests
<b>Safety</b>	EMC	BS/EN 61326-1
	Safety	Complies with IEC 61010-1
<b>Environment</b>	Operating temperature	-18°C ~ +60°C
	Storage temperature	-20°C ~ +70°C
	Humidity	85% at 35°C
<b>Dimensions</b>	Height	235mm
	Depth	44mm
	Width	100mm
	Net weight	450g

\* NanoTronix Co., Ltd. reserves the right to change the specification or design without prior notice.

### 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



### Applications

- UTP cable (CAT 3/4/5/5e/6)
  - Telephone line and coaxial cable
  - Any paired (shielded or twisted) metallic telecom cable
- NanoTronix LAN Cable Tester<sup>Plus</sup> (Model No.: mTDR-030) is primarily designed for LAN installer, cable wholesalers, retailers, contractors, electricians, cable installers and alarm installers needing to troubleshoot and measure individual line faults (open and short), pairings, and their distances.

### Optional Accessories

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

