

Validator™ NT955

Overview

The Validator NT955 offers active network testing, digital performance and speed certification for CAT5, CAT5e, and CAT6 Ethernet cables. The Validator provides signal quality testing for coax, telephone, audio and security cables in the installation and maintenance of local premise networks.

Key Features

- Software creates a complete topology of the network with cables, equipment, and connections that you can save, print and update as changes are made to the network
- Import existing Visio/AutoCAD images for your network layout
- Dedicated I/O ports for network, telephone, coax and paired cables
- Download to computer via USB port and save/print cable test results and layouts

Applications

- Speed test individual Ethernet cable runs up to 1 Gigabit
- Test for TIA568 interconnect problems
- · Qualify lines for VoIP usage
- Determine fault locations, cable length and delay or noise conditions
- Identify hubs, NIC, or Auto MDI/MDI-X devices
- · Identify port services: POTS, Ethernet, IDSN, token ring
- Configuration links between nodes at Gigabit speeds



Kit Includes:

Validator-NT Main Unit and Smart Remote • 2 lithium-ion rechargeable long-life batteries • 2 AC adapter/charger units

- 4 adapter cable assemblies Set of 8 wiremap remotes
- USB cable assembly Compact flash card Plan-Um[™] design layout software Deluxe carrying case with cushioned sides

Order Number: NT955 VIAS Number: NT955







Plan-Um[™] Software



Validator NT955 Kit



Technical Information

Signal Quality Testing on Network Cable

- Wiremap up to 8 locations at a time with remote kit (included)
- Length of cable (TDR) distance to opens and shorts
- SKEW
- · Channel response
- Echo testing (return loss)impedance mismatches
- Signal-to-Noise Ratio including attenuation, amplitude, NEXT [all combinations on all pairs (12)]

Performance and Speed Certification

- Supports IEEE802.3 speed criteria up to 1 Gb with full Bit Error Rate Test
- Test interconnect specifications per TIA568/570
- Measures the quality of the signal through the cable against set criteria on cable data-carrying capability in real time. 100 Mb/Gb speeds
- Real-time testing of the performance capability of the cable qualifies VoIP lines
- Measures signal quality in actual link environments that could account for cable inadequacies: physical installation, kink, loops, physical terminations, dry shorts, and miswires

Active Network Capabilities

- Detects voltages on the port and classifies it as phone, legacy phantom power over Ethernet or unknown
- Ethernet equipment and displays advertised speeds, actual linked speed, hub/switch-NIC-auto, signal-to-noise ratio (100 Mb and 1 Gb), timing skew (1 Gb) and crystal frequency error between NT and other device
- Cable not terminated at other end, reporting length of each pair and any shorts, split-pairs or opens in the cable
- Cable test results on Validator-NT remote end
- Manual or DHCP modes supported
- Pings up to four manually-entered ping target addressed in dottedquad or URL formats, DNS server, routers/gateway and default internet address
- Reports number of packets sent/ received and last response time
- Flashes hub/switch's link indicator to locate link with Validator-NT connected to it

Operating Specifications

Display 256 color back-lit LCD Power Source AC adapater/lithiumion rechargeable batteries Interfaces USB port for uploading/ downloading files to/from a laptop/PC

Operating System Linux
Keypad Full navigation set with easy
alphanumeric data entry and soft
key functions

Physical Characteristics

Physical Dimensions

Main Unit

Size 22.9 x 11.4 x 5.3 cm (9 x 4.5 x 1.8 inches); Weight 710 grams (1 lb 9 oz) with battery

Remote

Size 14.2 x 11.2 x 4.4 cm (5.6 x 4.4 x 1.8 inches); Weight 341 grams (12 oz) with battery

Environmental

Operating temperatures 0 to 50°C (32 to 122°F) Storage temperature -20 to 70°C (-4 to 158°F) Humidity 10% to 85%, non-condensing

Interfaces

- · USB cable assembly
- Compact flash card (included)

Test Connectors

- 8-position shielded modular jack (data)
- 6-position modular jack (telephone)
- F-coax (video) and dual banana jack (security, speaker, etc)

Cable Types

- Shielded or unshielded CAT3, 5, 5E, 6
- Telephone, coax, speaker wire, security, fire, and alarm

Battery Type

Rechargeable, removable lithium-ion packs

Maximum cable length for testing for split pairs

Up to 1500 feet, depending upon cable type

