Operating Specifications

- **Display** 256 color active back lit LCD
- Power Source AC adapter/lithium ion rechargeable batteries
- Interfaces Serial port for direct printing from Validator™and 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 2.1 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 temperature: 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
- 32 MB compact flash card

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



Signal Quality Testing on Network Cable

- Wiremap up to 8 locations at a time
- Length of cable (TDR) distance to Opens and Shorts
- SKFW
- NEXT—All combinations on all pairs (12)
- Channel Response
- Echo Testing (Return Loss) impedance mismatches
- Signal to Noise Ratio
- Attenuation
- Amplitude
- Return Loss

Performance and Speed Certification

- Supports IEEE802.3 speed criteria up to 1 gigabit with full Bit Error Rate Test (BERT)
- 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. 100Mbit/gigabit speeds
- Real-time testing of the performance capability of the cable
- Measures signal quality in actual link environments that could account for cable inadequacies. Physical installation, kink, loops etc., physical terminations, dry shorts, miswires etc.

Specifications subject to change.

Validator™ Kit (NT950) includes

- Validator™ Main Unit and Smart Remote
- 2 lithium ion rechargeable long-life batteries
- 2 AC adapter/charger units
- 4 adapter cable assemblies
- USB cable assembly
- Compact flash card
- Plan-Um[™] design layout software
- Deluxe carrying case with cushioned sides

Test-Um Inc.

805-383-1500 • FAX 805-383-1595 • www.test-um.com

Network/Cabling Certifier

Creates and prints job reports

patent pending

- Tests to TIA 568/570 interconnect standards
- Certifies CAT5, CAT5E, and CAT6 cables to be IEEE compliant to 1 gigabit speed
- Tests coax, telephone, audio, and security cables
- Wiremap new or existing cable systems Simple to use



Validator

The 21st Century Certifier

Define the Job, Make the Tests, Print the Results, Store the Data...

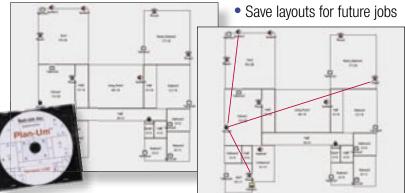


No other tester/certifier does so much, so easily and so economically.

Validator measures and presents fast and clear SPEED and PERFORMANCE results up to 1 gigabit. The included powerful Plan-Um™ software ties together all the different cable criteria that are found in complex voice/ data/video installations and presents concise information in printed reports, while storing data for future use.

1. Layout

- Create custom floor plans
- Show specific ports: network, telephone, cable
- Indicate cable runs



Powerful Plan-Um[™] software included

- Print or e-mail layout for approval
- Automatically creates cable test schedule

will then operate at maximum efficiency.

• Cable List shows run starting and end points

and attach them to your invoice. That's all there is to it.

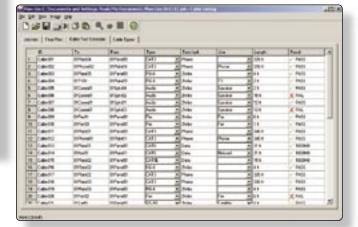
Speed certification assures your customer that the cabling will do the job it

is rated to do. Attached components, switches, hubs, routers and systems

Completing and billing a cable installation job has never been easier.

Simply layout your customer's requirements in a matter of minutes, then define cable types and runs. Test/certify each cable run. Print the results

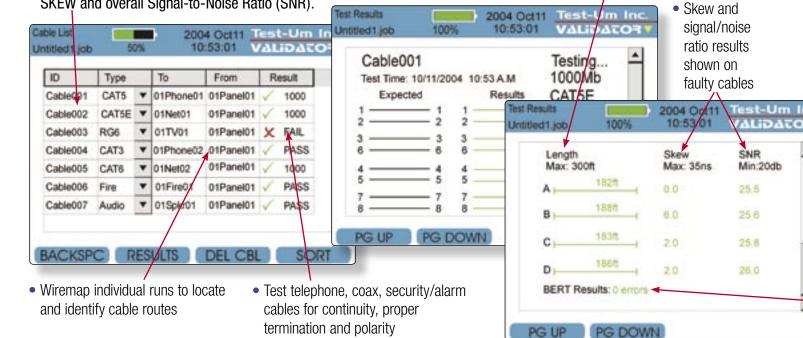
Each cable run is displayed for cross-checking



2. Certify

 Certifies to IEEE802.3 speed criteria. Test/certify network cables to 1 gigabit speed, using live digital data packets in a full Bit Error Rate Test (BERT). Other typical TIA568 measurements include NEXT, Attenuation, Return Loss, SKEW and overall Signal-to-Noise Ratio (SNR).

 Measure cable length and distances to opens and shorts using advanced TDR technology



2004 Oct11 Test-Um Inc VALIDATOR Cable001 Testing.. 1000Mb Test Time: 10/11/2004 10:53 A M Test Results PASS SNR Min:20db 25.5 25.6 PG DOWN PG UP 25.8 26.0 Clear test results Shows the actual error rate in the BERT test

3. Document & Archive

dedicated I/O ports for

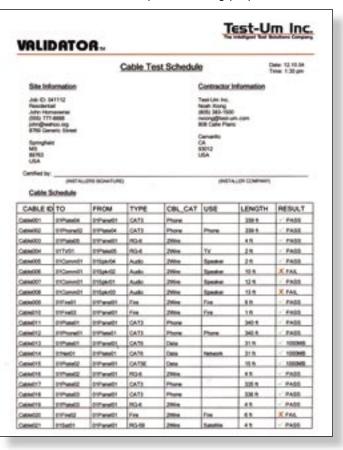
Verify all tests are done against the plan

network, telephone, coax and paired cables

Shows PASS/FAIL, cable length and speed rating

USB port

• Print End of Job Report for billing purposes



- Store finished jobs for reference in doing future adds, moves or changes
- Store data on either a laptop/PC or in flash card memory up to 2 GB. Thousands of jobs can be saved!
- Use archived info when upgrading or changing previously installed systems