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 alpha/numeric 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

Specifications subject to change.

Signal Quality Testing on Network Cable

- Wiremap up to 20 locations at a time
- Length of cable (TDR) distance to Opens and Shorts
- SKEW
- 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 IEEE 802.3 signal speed carrying specifications to 1 gigabit
- 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.

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

Network/Cabling Certifier

- 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
- Powerful Plan-Um™ design software included
- Creates and prints job reports
- Wiremap new or existing cable systems
- Simple to use

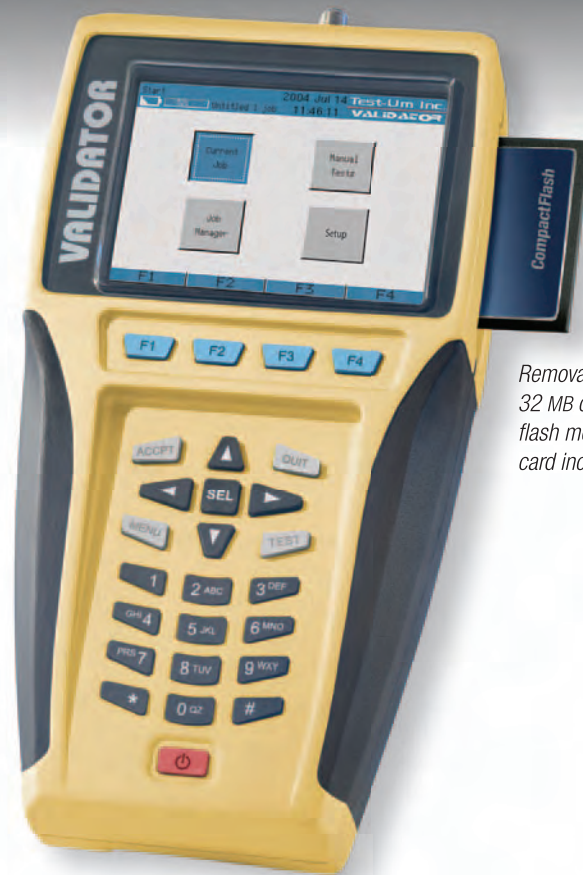**Validator™ gives you 4 steps to more professional, productive and profitable installations...**

Validator™
The 21st Century Certifier

Test-Um Inc.
The Intelligent Test Solutions Company

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

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.

Speed certification assures your customer that the cabling will do the job it is rated to do. Attached components, switches, hubs, routers and systems will then operate at maximum efficiency.

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

serial port

USB port

dedicated I/O ports for network, telephone, coax and paired cables

Removable 32 MB compact flash memory card included

1. Layout

- Create custom floor plans
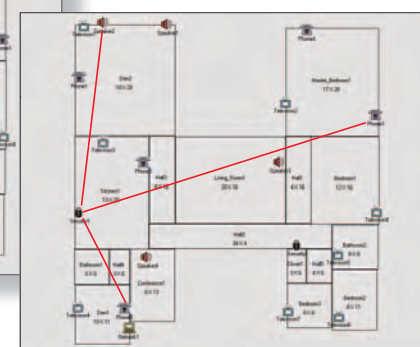- Show specific ports: network, telephone, cable
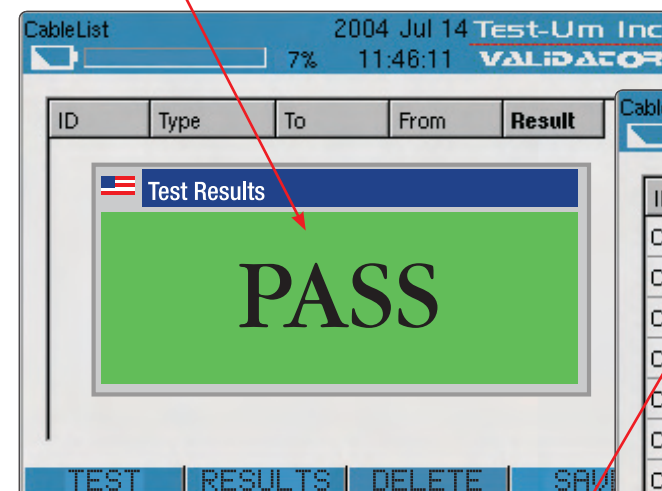- Indicate cable runs
- Print or e-mail layout for approval
- Save layouts for future jobs
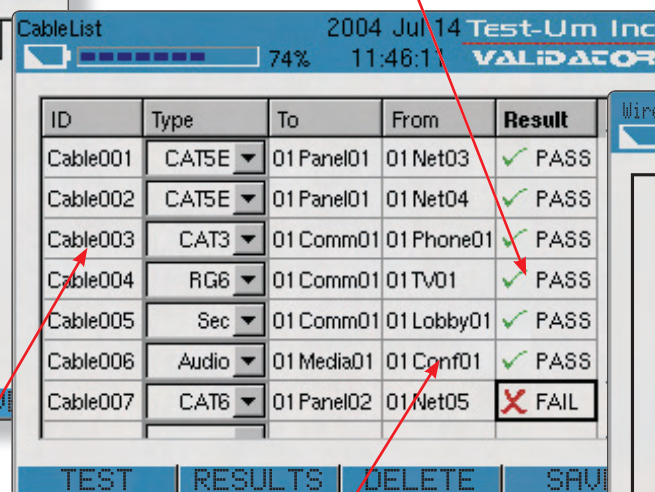- Automatically creates cable test schedule

Powerful Plan-Um™ software included

3. Document

- List cable runs against a defined job
- Each cable run is displayed for cross-checking
- Verify all tests are done against the plan
- Cable List shows run starting points and end points
- Pass/fail
- Print End of Job Report for billing purposes

2. Certify

- Clear test results
- Test telephone, coax, security/alarm cables for continuity, proper termination and polarity
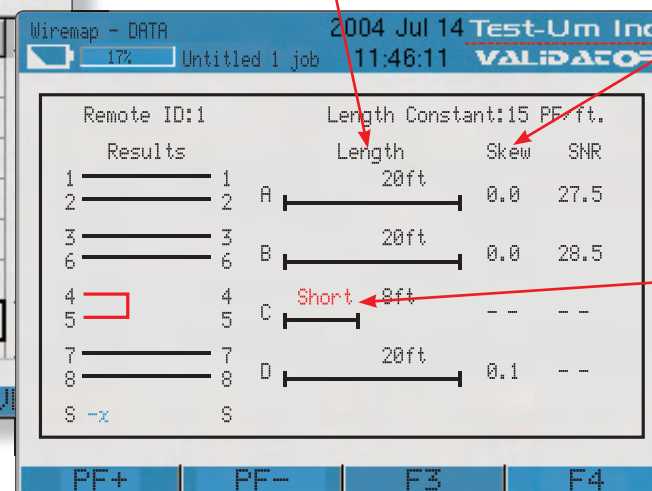- Measure cable length and distances to opens and shorts using advanced TDR technology
- Test/certify network cables to 1 gigabit per IEEE 802.3 speed criteria. Typical measurements include NEXT, signal/noise ratios, attenuation, return loss and bit error rates to determine cable carrying capability
- Wiremap individual runs to locate and identify cable routes
- Skew and signal/noise ratio results shown on faulty cables
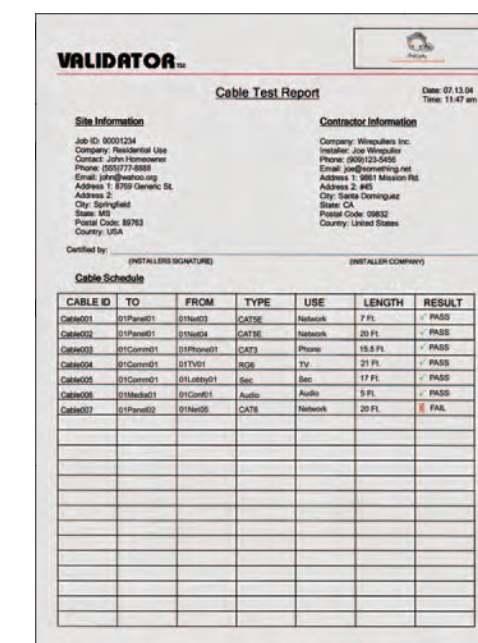- Test interconnect specifications per TIA 568/570, including opens, shorts, miswires, split pairs, etc.

4. Archive

- 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