Introducing CableIQ

Qualification Tester

- **The first cabling bandwidth tester for network technicians**
  - Troubleshoots **connectivity problems caused by insufficient bandwidth**
  - Qualifies **existing cabling for 10/100BASE-T, VoIP, and Gig**

Physical Highlights

Wiremap adapter doubles as protective end-cap

Large graphical display gives crystal clear results

Navigation buttons make learning easy

Powerful backlight

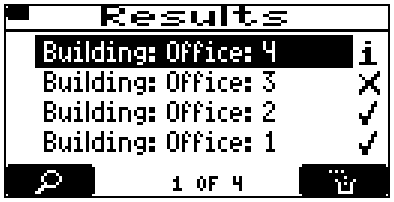
Dial interface means always knowing selected mode

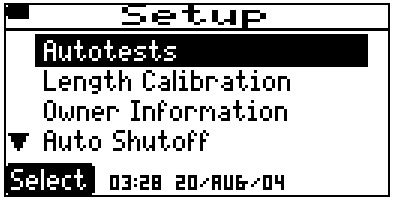
Protective boot makes it durable and attractive

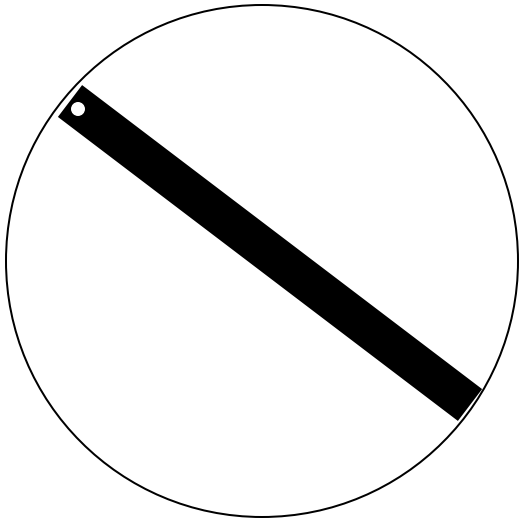
Test button provides cabling bandwidth in four seconds

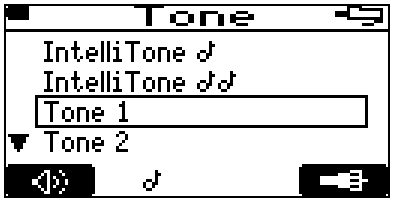
USB port for uploading qualification tests

CableIQ Major Modes



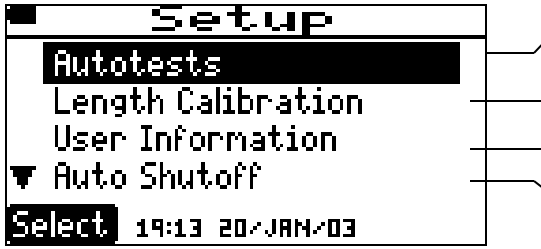


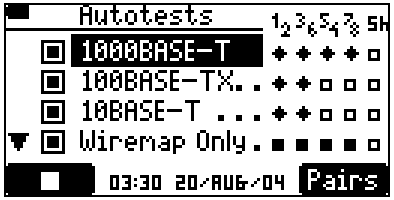




Setup Functions

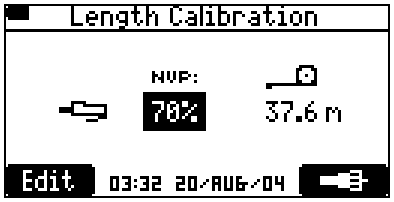
Basic Instrument Settings



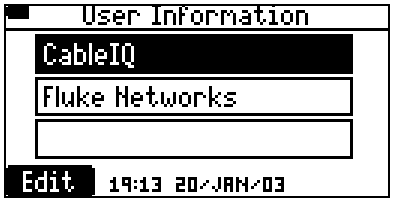


Enable/Disable Autotest and Pairs to test

1000BASET, 100BASETX 10BASET, VoIP, TELCO Wiremap Only (Verify), Coax



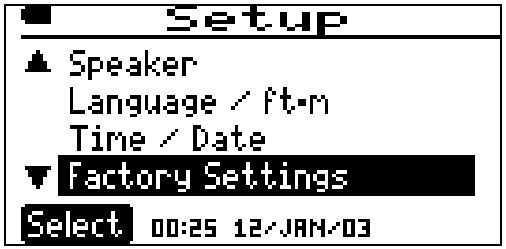
Set or Learn NVP



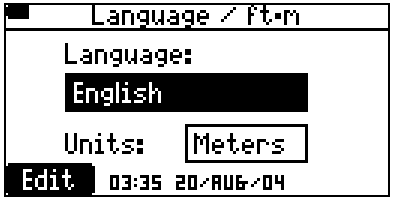
User or Site info to be included in report

Enable / Disable Auto Shutoff

Setup Functions (Cont)



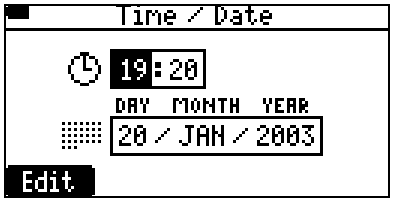
Enable / Disable Unit Sounds



Select Language:

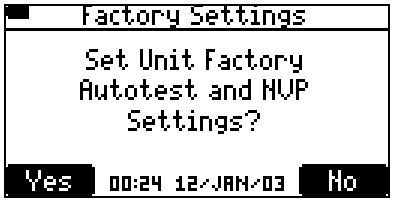
English, French, German, Ital. Spanish, Port, Japanese

Units: meter / feet

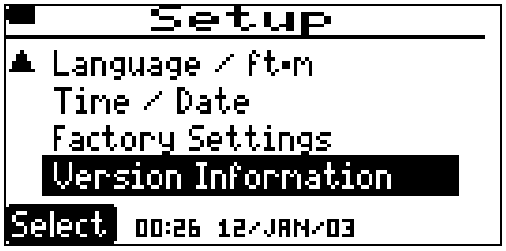


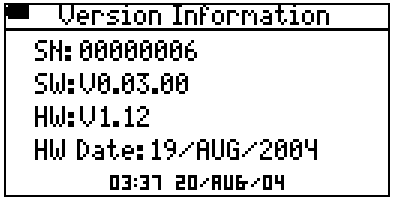
Set time and date

24 hr time



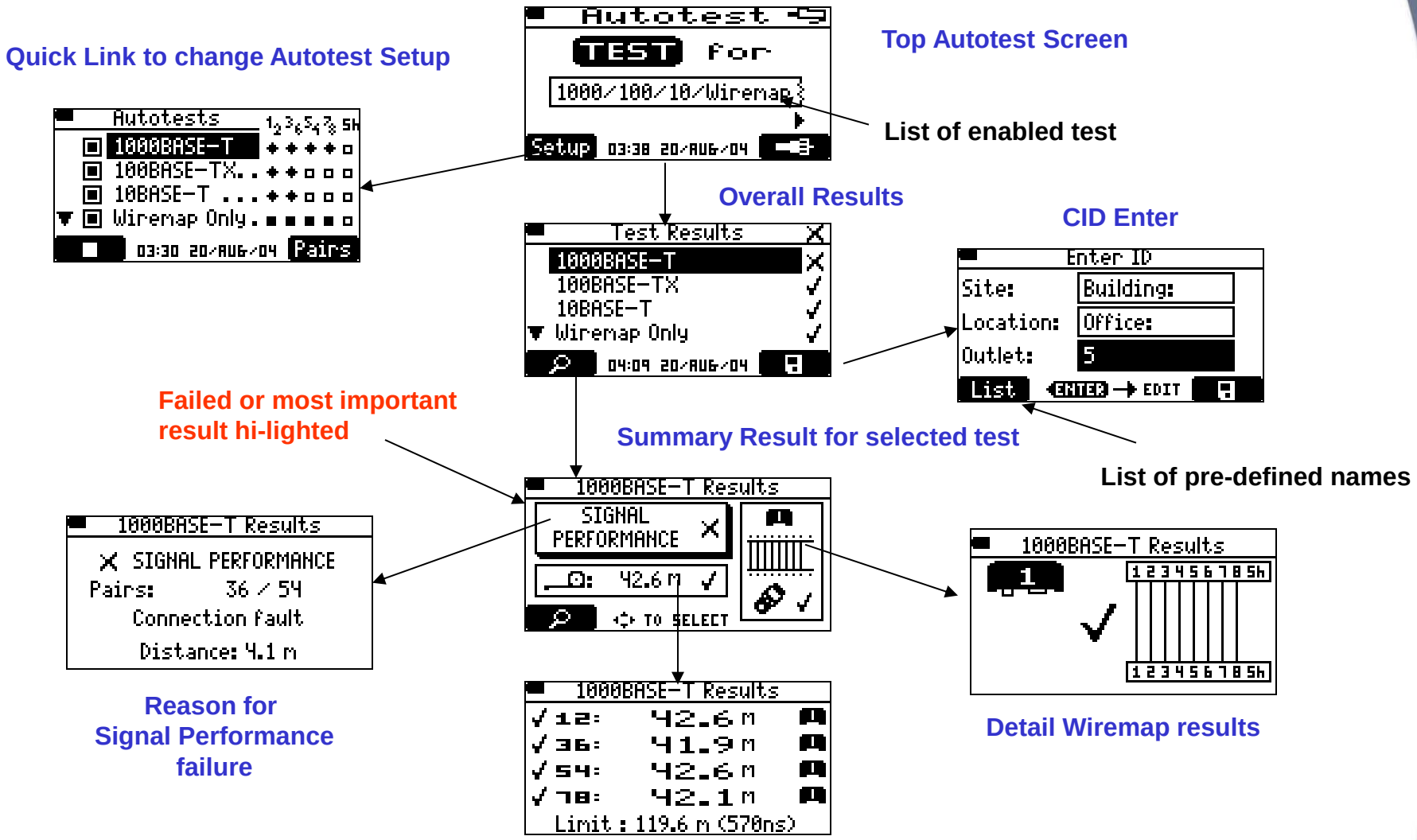
Return Autotest and NVPs Settings to factory default



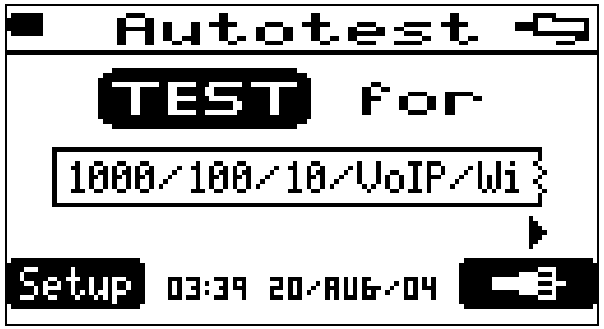


Unit Version information

Autotest with Far End Adapter Allows Full Qualification

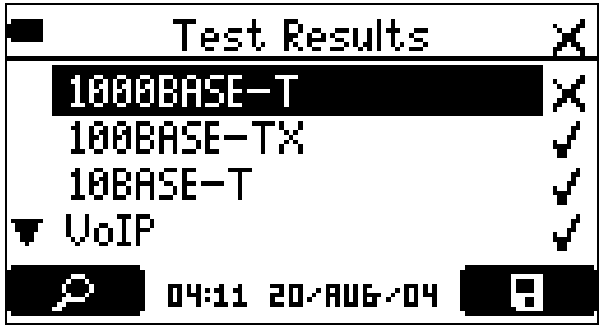


Bandwidth Qualification



Setup Qualification Test

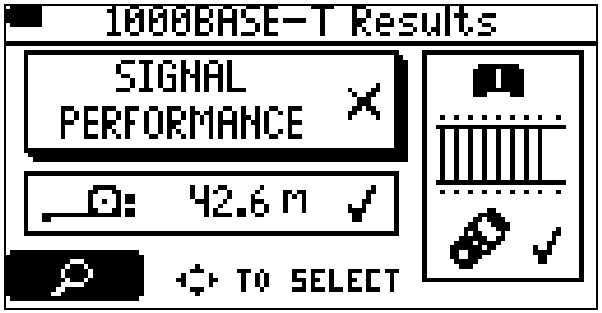
Select speeds and technologies to be included in qualification test



View results

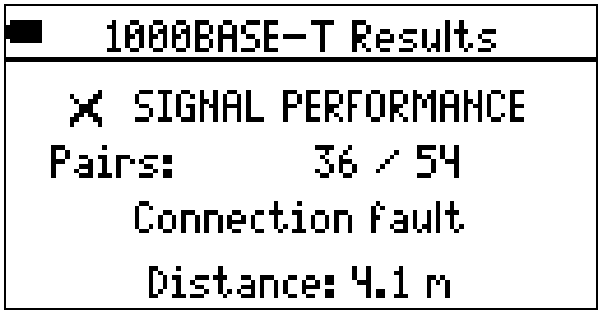
Check marks indicate which speeds and technologies the tested link qualifies to run

Cable Troubleshooting



Why didn't it qualify

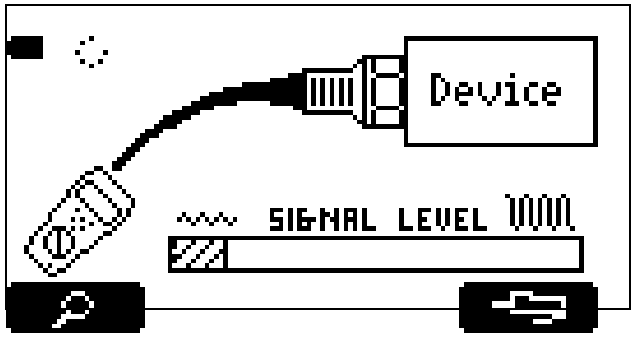
Drill down on qualification test components to find reason for failure



Find performance fault

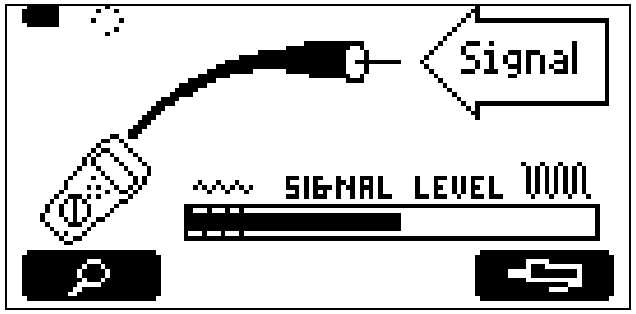
Drill down further to see distance to performance fault

Coax Video Testing



Detect a coax device

Plug into any coax outlet and verify a device at the far end



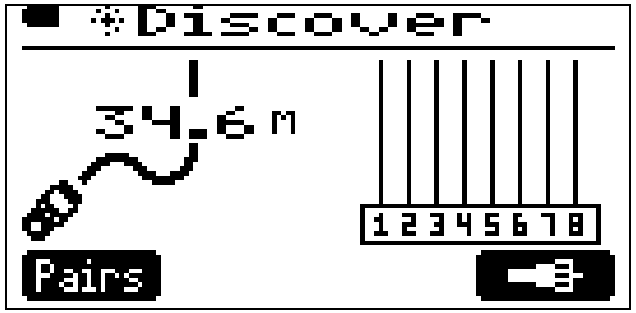
Verify signal

A bar graph display shows whether signal level is low, medium, or high

Mid approx. 10dBmV (normal)

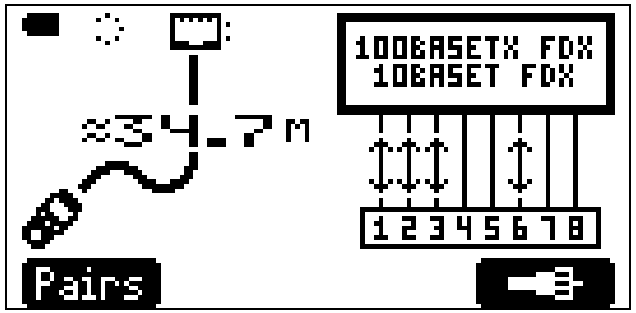
Low approx. 1 dBmV

Infrastructure Discovery



Open link

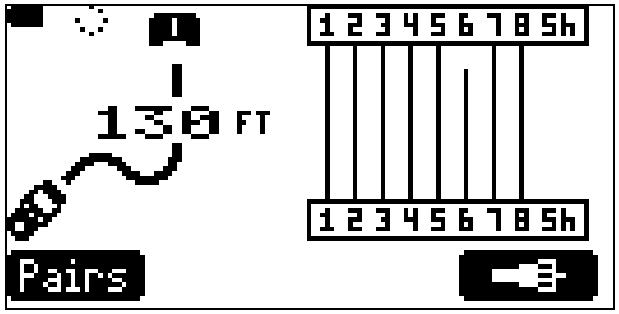
Plug into any cable, wall jack, or patch panel to see where cable leads



Far end device

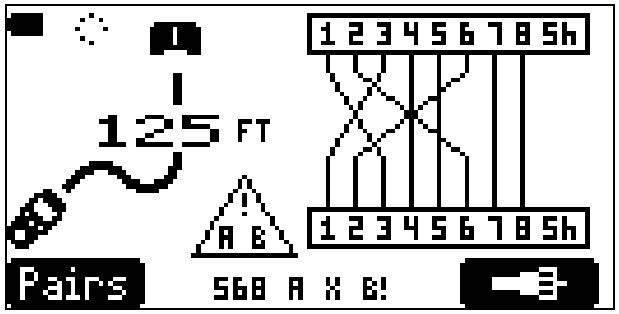
Detect connected devices and see speed/duplex settings

Intelligent Wiremapping



Open pin at far end

Proportionally-correct pin lengths indicate location of breaks

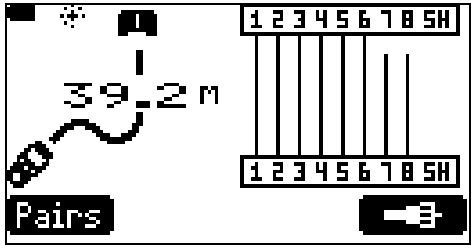


568A/B cross

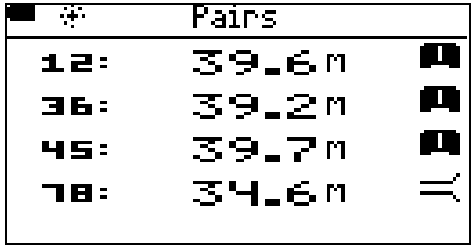
CableIQ's intuitive interface makes detecting common wiring faults easy

Other TWP Wiremap Functionality

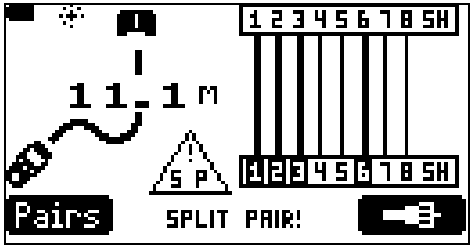
Proportional Drawing on wiremap immediately shows where the problem is



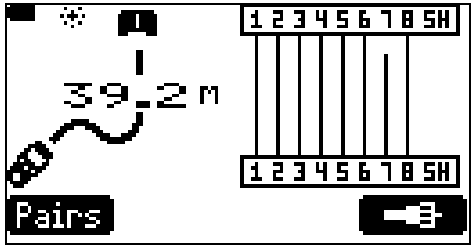
Press Pairs to see details of length and termination of each pair



Split Pair Detection



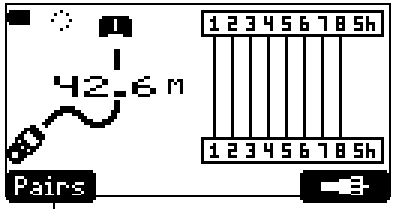
Wire Based Mapping shows Single Wire Faults

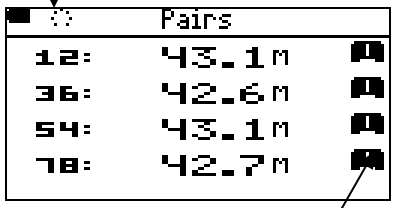


TWP Discover Finds What is at the End

Wiremap Adapter

Length and map

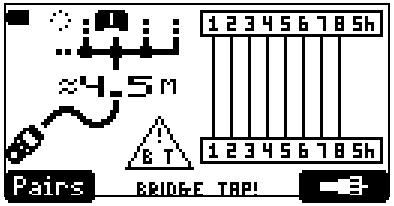


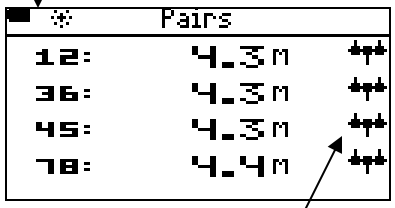


Wiremap Adapter

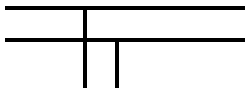
Wiremap Adapter with Bridge Tap

Distance to BT and map





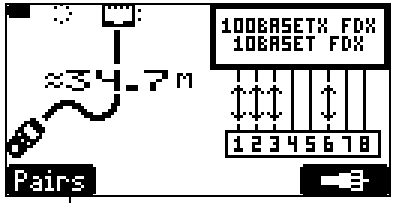
Bridge Tap Termination Condition

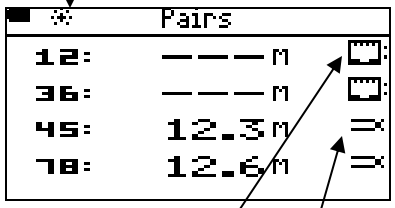


Bridge Tap Common in phone wiring

Active Ethernet Port

Port capability and distance to port

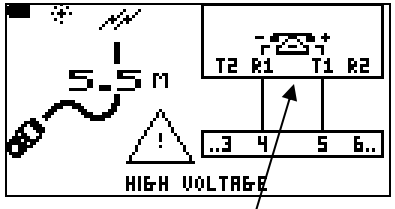




Pairs 12 and 36 are terminated

45 and 78 are shorted in Port

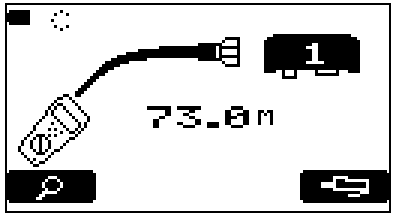
Live Phone Line



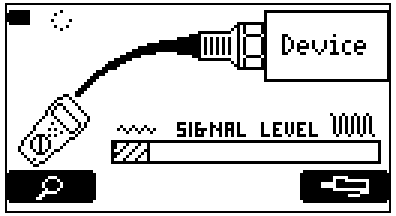
45 is detected as the Active Phone Line

Coax Discover Finds What is at the End

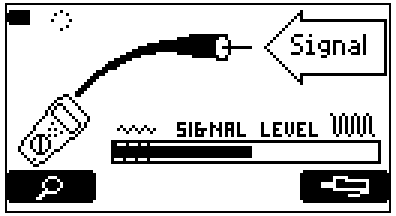
Coax attached to Wiremap Adapter



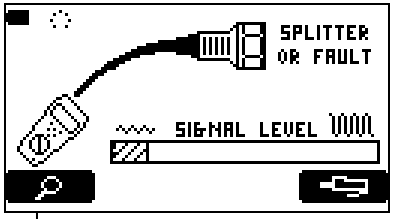
Coax attached to something: TV, Antenna, etc



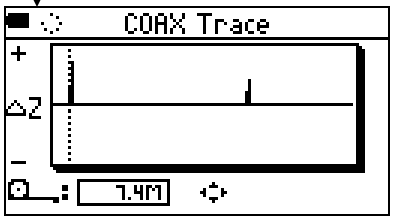
Live RF Cable Signal Detected



A significant fault or possible splitter is detected

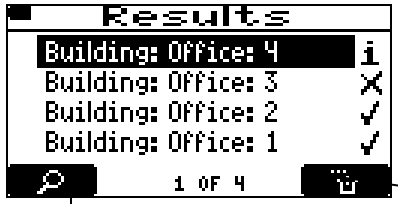


Use Coax Trace Function to view TDR results

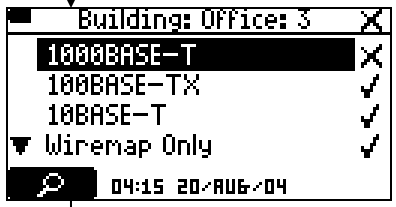


Results Viewing

Viewing stored Results screens similar to Autotest Results



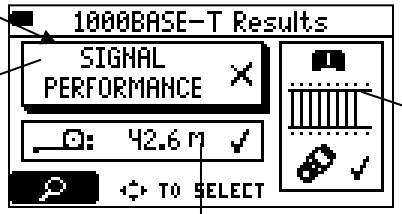
Delete Selected or All Stored Tests

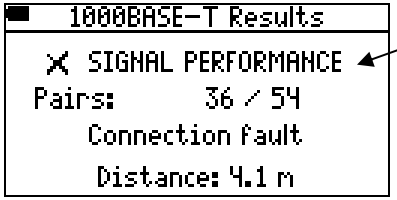


Overall Results

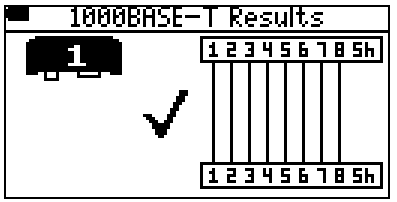
Failed or most important result hi-lighted

Summary Result for selected test

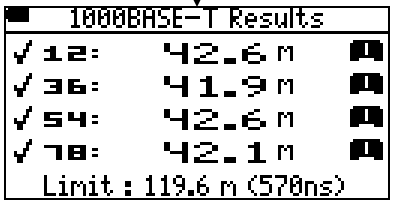




Reason for Signal Performance failure



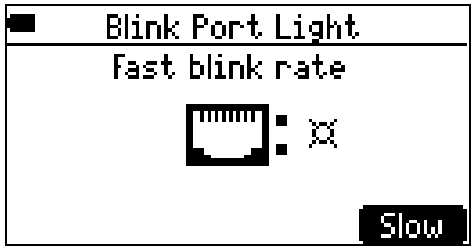
Detail Wiremap results



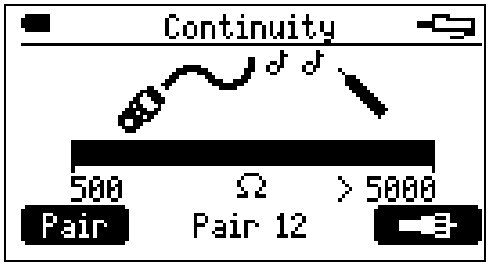
Detail Pairs length and pair termination

Diagnostic Functions

- Blink Port Light
- Continuity
- Find NEXT Fault
- Find Impedance Fault
- Speaker Test



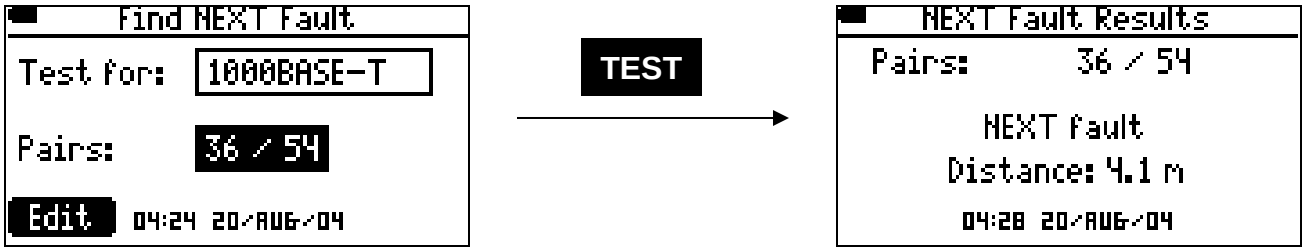
Blinks the port activity light and analog tones to aid locating the port.
Does not function with ports configured for non-negotiation (fixed rate).



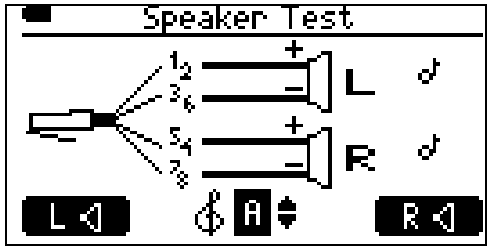
Analog Tones while measuring continuity. Tone frequency and rate is a function of measured resistance. Bar graph provides indication of resistance between 500 and 5000 ohms

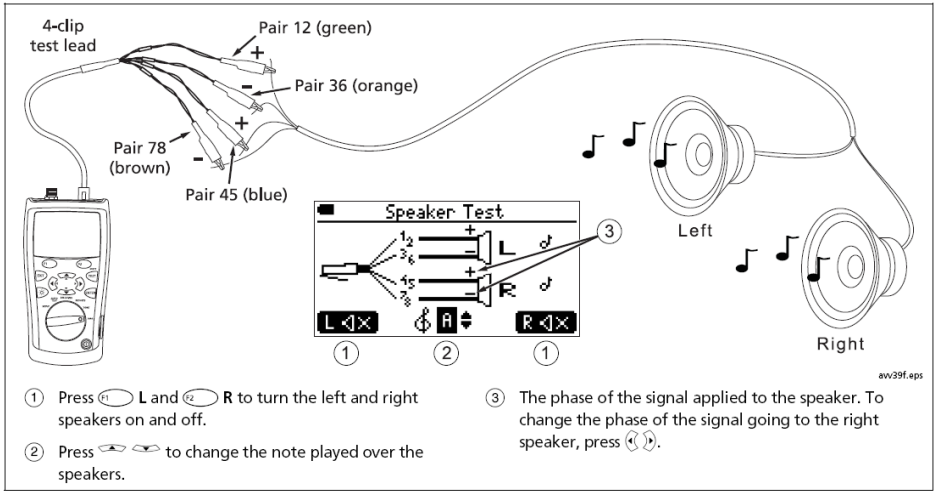
Diagnostic Mode Cont.

Find NEXT and Impedance Fault



If the cable fails, Find NEXT and Impedance Fault identify fault type and location.
Fault types are point (generally connectors) or distributed (generally cable)





User can check speakers with a simple audio test.
Left / Right speaker and phasing controls allow easy checkout.
Use speaker adapter cable between CableIQ and speaker wiring.