



## LAN ProNavigator™

UTP/Coax Cable Tester with Remote

### AUTO-OFF Power Save Circuit:

1. The main tester has an automatic power shut down circuit to save battery life. The power to the unit will turn off after approx. 20 seconds of non-use during normal testing and fault check operations, and 30 minutes in tone mode. To prevent power shut down, periodically press the "Fault Check/Tone" switch.
2. Pressing the "On/Test" switch after a test will turn the unit off.

**Warning: Do not use on live lines or energized circuits!**

### READ BEFORE USE:

1. Connect battery prior to use.
2. Never open the case of the main tester. Access battery through the battery door provided.
3. Do not use in high moisture environments.
4. Use the provided screw to attach the belt clip to the main test unit. Use the case screw on the Remote to attach the belt clip.
5. The One Year Limited Warranty covers materials and workmanship. Normal wear and tear, or damage due to misuse is not covered under the warranty.
6. This test system does not test for network frequency, cross talk (NEXT), decibel level, data packets, transmission rate, or live circuit line indication.
7. Split Pair detection requires a minimum cable length of 6 feet (2 meters). Cables of less length may have incorrect test results indication.

### Technical Data:

Type	Main Tester	Remote
Power Requirements	9-volt Battery	None
Operating Temp.	32° - 110°F	32° - 110°F (0° - 43°C)
Storage Temp.	10° - 120°F	10° - 120°F (-12° - 48°C)
Output Signal	dc-2Mhz Pulse	None
Weight	5.6 oz.	1.6 oz.
Battery Life	1000 tests	n/a
Battery life based on standard non-alkaline batteries.		

OnQ Technologies, Inc.  
301 Fulling Mill Road  
Middletown, PA 17057  
Phone: (800) 321-2343  
Fax: (717) 702-2546  
website: [www.onqtech.com](http://www.onqtech.com)



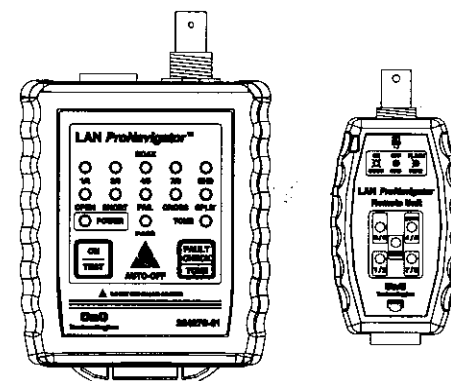
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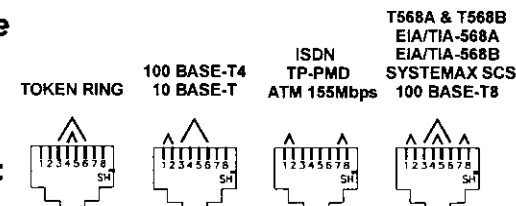
### Operating Instructions

Part Number 364276-01

IS-0082 Rev. B



**Warning: Do not use on live or energized circuits!**



### Tests common network types:

- \* THE FASTEST AND EASIEST TESTER YOU WILL EVER USE!
- \* Tests data, telephone, and coaxial cable continuity up to 320 feet (100 meters).
- \* Split Pair detection is 6 feet (2 meters) to 320 feet (100 meters).
- \* Tests proper pairing to EIA/TIA-568 A & B for Cat-4, Cat-5, Cat-5e, Cat-6, ISDN, Token Ring, 10 Base-T, 100 Base-T, 258A, and other common network types.
- \* Test status reported at both ends of the cable: Main and Remote unit indicators.
- \* Tests Unshielded Twisted Pair (UTP) and Shielded Twisted Pair (STP) cables.
- \* Tests 50-ohm and 75-ohm coaxial cables.
- \* Generates oscillating audio tone for tracing cables using remotes or tone probes.
- \* Detects opens, shorts, crossed connections, transposed pairs, and split pairs.
- \* QUICK TESTING - Simple "Pass" or "Fail" indication in one second. Or user optional "Fault Check" function for troubleshooting cable failures.
- \* Auto-off power shut down conserves battery life.
- \* Uses standard 9-volt batteries (included).
- \* Belts clips and patch cables provided.
- \* One Year Limited Warranty



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## Operating Instructions

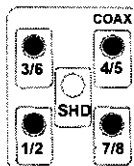
Indicator Light Reference: ● = ON ○ = OFF ◐ = FLASHING

### Testing UTP Cables:

1. Connect the main tester to the hub using a patch cord. Connect the remote unit to the wall jack using a patch cord. If testing cables, attach units directly to cable ends.

2. Press = ● **POWER "ON"**
3. Press = ● "ON/FLASH" + ● "ON" (Cable Good)
- OR = ● "ON/FLASH" + ● "ON" (Cable Faulty)

Remote Indications for a good UTP cable



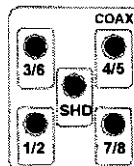
4. Test complete. Go to the next cable test, or perform a "Fault Check" operation to troubleshoot faulty cables. Do not press the "ON/TEST" button. This will turn off the tester and prevent a "Fault Check" from being performed.

### Testing STP Cables:

1. Connect the main tester to the hub using a patch cord. Connect the remote unit to the wall jack using a patch cord. If testing cables, attach units directly to cable ends.

2. Press = ● **POWER "ON"**
3. Press = ● "ALL ON" + ● "ON" (Cable Good)
- OR = ● "ALL ON" + ● "ON" (Cable Faulty)

Remote Indications for a good STP cable



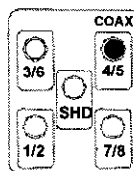
4. Test complete. Go to the next cable test, or perform a "Fault Check" operation to troubleshoot faulty cables. Do not press the "ON/TEST" button. This will turn off the tester and prevent a "Fault Check" from being performed.

### Testing COAXIAL Cables:

1. Connect the main tester to the hub using a patch cord. Connect the remote unit to the wall jack using a patch cord. If testing cables, attach units directly to cable ends.

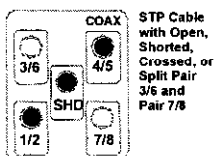
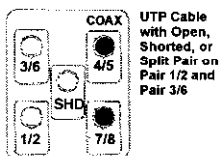
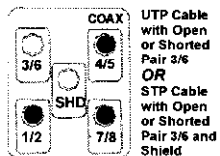
2. Press = ● **POWER "ON"**
3. Press = ○ "COAX/SHD" + ● "ON" (Cable Good)
- OR = ○ "COAX/SHD" + ● "ON" (Short-Bad)
- OR = ● "ON/FLASH" + ● "ON" (Open-Bad)

Remote Indications for a good coax cable



4. Test complete. Go to the next cable test, or perform a "Fault Check" operation to troubleshoot faulty cables. Do not press the "ON/TEST" button. This will turn off the tester and prevent a "Fault Check" from being performed.

### Examples of faulty cable indications on the remote units:



The remotes will only show lights for pairs without faults

## FAULT CHECK for Troubleshooting Faulty Cables:

1. Do not turn off the tester after performing a test. The tester must remain on to retain test results.

2. Press = ● "First Pair to be Checked" + ● "ON" (Pair 1/2 Good)

3. Press = ○ "Second Pair to be Checked" + ● "ON" (Pair 3/6 Bad)

4. Step through the pairs 1/2 through SHD by continuously pressing the "Fault Check/Tone" button. View the test status of each pair as shown by the examples above. The various test result status indications are as follows:



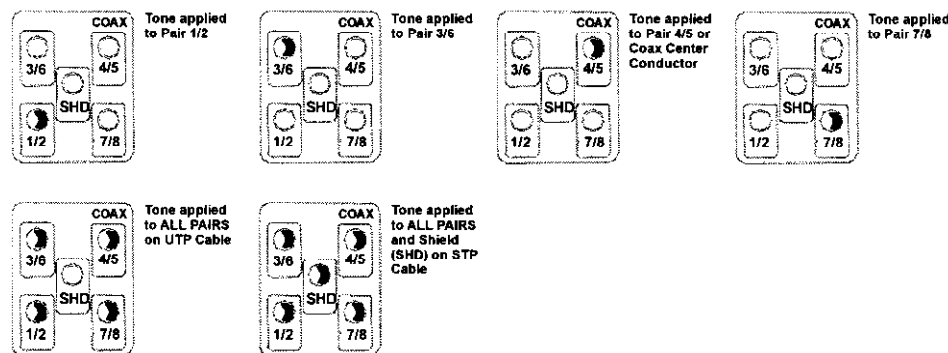
*Note: An indication of "Cross" means the pairs are either swapped, transposed, crossed with another pair, or has one wire of the pair swapped with a wire of another pair. A "Split" indicates split pair: one wire of one pair is switched with one wire of another pair, occurring at both ends of the cable, but is still wired through on a 1-to-1 basis. Split Pair is an indication of excessive cross-talk (noise) due to unmatched pairs.*

### TONE mode for pair identification, cable tracing, and troubleshooting:

1. An oscillating audio tone is selectively applied to individual pairs or all lines for tracing.

2. Press = ◐ "Tone Applied to Pair 1/2"
3. Press = ◐ "Tone Applied to Pair 3/6"
4. Press = ◐ "Tone Applied to Pair 4/5 or COAX Center Conductor"
5. Press = ◐ "Tone Applied to Pair 7/8"
6. Press = ◐ "Tone Applied to All Pairs and Shield (SHD)"

#### Remote Indications:



*Note: Due to the low signal output level of the tester, tone applied to individual pairs is lower in volume (when using a tone probe to hear the signal) than when applying the tone to all pairs. For highest volume level to trace cables, it is recommended to apply the tone to all pairs (see step 6 above).*

7. To trace individual pairs for troubleshooting, apply tone only to the required pair as shown in steps 2 through 5.