LAN Cable Tester

User's Guide Part#: LANTESTPRO

Specifications

- 1. LCD Display: 2 lines by 12 characters with LED back light
- 2. Connectors: (2) RJ-45 (8P8C) jack with shield
- 3. Controls keys (3): MODE/SEL, ESC, and ENTER buttons.
- 4. Power: (1) 9V dry cell battery.
- 5. Size: 15.0(H) x 6.5(W) x 3.5(D) cm.
- 6. Weight: 180g

Cable Types

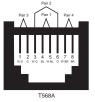
- 1. Unshielded Twisted Pair (UTP 100Ω , Cat 3, 4 & 5)
- 2. Foil screened Twisted Pair (FTP 100Ω and 120Ω , Cat 3, 4 & 5)
- 3. Shielded Twisted Pair (STP 150 Ω IBM Type 1 & 6)
- 4. RG-58 Coaxial cable (LCT-400 ONLY)

Cable Locator

Cable location may be accomplished by using multiple LCT-T terminators. The LCT-T terminators incorporate factory set I.D. numbers and are available in IDs from 1 to 16.

Recognized Wiring Schemes

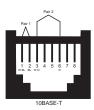
- 1. 10(100)Base-T
- 2. Token Ring
- 3. TP-PMD
- 4. AT&T 258A
- 5. EIA/TIA-568A/B
- 6. USOC
- 7. 10(100)Base/HUB
- 8. BNC/10Base-2
- 9. 4 User Defined



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Features

- 1. Hand-held and easy to operate.
- 2. Easy to read LCD display, with back light.
- 3. Easy to diagnose RJ-45 cables (and BNC types with LCT-400) with preset wiring schemes.
- Easy to read cable status, verify cable continuity: open, short, and mismatches.
- 5. Scan pin assignment.
- 6. Automatic cable identification. (Cable type search.)

- 7. Standard pin configurations and 4 user defined cable wirings memorized in CPU.
- 8. Can save user defined cable directly after testing.
- 9. Test for both shielded and unshielded cable types.
- 10. Review the captured pin assignment and failure status.
- 11. Maximum testing length is up to 3000 feet.
- 12 Identify and trace the other end's ID. (With up to 16 individual ID LCT-T)
- 13. BLow battery indicator.
- 14. Automatic power-off function.

Automatic Power Saving Features

The LANTESTPRO has built in power management features intended to extend battery life. By far, the LCD back light is the most power-hungry component in the LANTESTPRO. Use of the LCD back light should therefore be limited to low ambient light applications. The back light may be toggled ON/OFF by simultaneously pressing the MODE/SEL and ESC function keys. If there is no further menu selection or function testing within 30 seconds, the back light will be automatically extinguished. Additional power management functions include both a "sleep" mode and an auto "power off" mode. If there is no key activity for 3 minutes, the unit will automatically enter "sleep" mode. All interface circuitry and the LCD display will be powered down. In this mode the unit draws very little power. Presing any key will cause the unit to "wake up" to a full functioning state. However, if there is no key activity for 10 minutes, the unit will automatically "power off". To recover from the "power off" mode, the unit must have its power switch cycled OFF and then ON. In the "power off" mode the power usage remains low. This feature is especially useful if the unit is inadvertently left powered on. The battery should be replaced when the battery low icon on the LCD display becomes visible during normal use of the LANTESTPRO. Additionally, if a low battery is swapped within 1 minute with a new one, the user defined memory contents will be retained. Just remember to turn the unit OFF before swapping the battery.

Operation

 $1. \ Connection: The \ LANTESTPRO \ is \ capable \ of \ testing \ cables \ in \ any \ one \ of \ four \ modes.$

1. Local Test mode is accomplished by connecting both ends of the cable being tested to the LANTESTPRO'S OUT and LOOPBACK IN ports. Local unit displays an ID equal to zero.

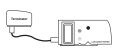


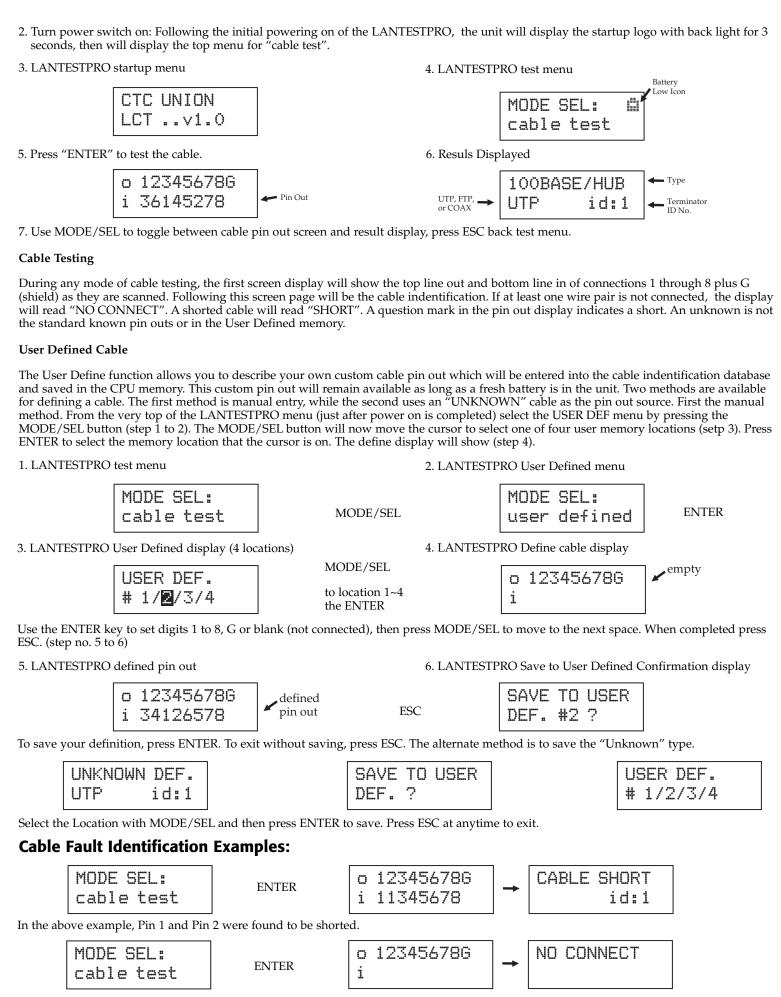
2. Remote Test mode uses 2 LANTESTPRO units, with the cable connected between on unit's OUT and the other unit's LOOPBACK IN ports. Remote unit displays an ID equal to zero.



- **3. Terminator Loopback** mode uses the supplied terminator ID block connected at the remote end of the cable, while the other end of the cable is connected to the LANTESTPRO'S OUT port.
- **4. 10BASE-2 Test** uses the supplied RJ-45 to BNC. The adapters may both be placed in the LANTESTPRO's RJ-45 jacks for local test or on may be placed at the LANTESTPRO's OUT port while the other is placed on the terminator for Terminator Loopback testing.







In the second example, if a least one pair of the wires is not connected, the test result will show as "NO CONNECT".