

LANTEK™ PRO Series



LANTEK™ PRO Series meets or exceeds all TIA requirements for both Level I and Level II testing.

Electrical Specifications

Line Map

8-wire pin connectivity, cable destination and shield continuity.

DC Resistance

Range: 0 to 400Ω autoranging
Accuracy: ±(1% + 2Ω)
Resolution: 0.1Ω

Length

Range: 0-2000' (0-610 m)
Accuracy: ±(3% + 3' + NVP uncertainty)
Resolution: 0.1m (0.33')
Propagation Rate: 0.5-0.99c ± 0.01

Delay

Range: 0-4000ns
Accuracy: ±(3% + 1 ns)
Resolution: 0.1 ns

Average Impedance (Zo)

Range: 0-400Ω
Accuracy: ±(3% + 1Ω)
Resolution: 1Ω

TDR Plot (Impedance)

Range: 0-400Ω
Accuracy: ±(1% + 2Ω)
Resolution: 0.1 (0.33')

Capacitance

Range: 0pF-100nF
Accuracy: ±(2% + 20pF)
Resolution: 1pF min.

Average (wideband) Noise

Range: 0-1VRMS
Bandwidth: 50Hz - 30MHz
Resolution: 10mV

Attenuation

Swept Frequency Range: 1MHz-102MHz
Full Range: 70dB
Frequency Steps: TIA TSB-67
Dynamic Range: 50dB @ 1MHz to
 30 dB at 100MHz (Log Curve)
Accuracy: ±1.0 dB at channel or basic link limit
Resolution: 0.1dB

Note: All dB values shown are negative values. By industry convention, the negative sign is omitted.

*If Fault Find graphs are saved in memory, the 500 test limit may be reduced.

Near End Crosstalk

Swept Frequency Range: 1 MHz-102 MHz
Full Range: 70dB
Frequency Steps: TIA TSB-67
Dynamic Range: 70dB @1MHz to
 45dB @100MHz (Log Curve)

Residual NEXT:

Accuracy: 55dB @100MHz
 ± 1.6 dB at basic link limit
Resolution: 0.1dB

Return Loss

Swept Frequency Range: 1 MHz-102 MHz
Frequency Steps: TIA TSB-67
Dynamic Range: 30dB
Accuracy: ±1.0 dB
Resolution: 0.1dB

General Specifications

Autotest time: 35 seconds
Display: 160 x 160 graphical LCD
Memory: Stores 500 Autotest results*
Cable Types: 38 standard + 10 custom + manufacturer's
ACR: Yes

Environmental Specifications

Operating Temperature Range: 0-50°C
Temperature Coefficient: 0.1 x spec/°C
Storage Temperature Range: -20 to +70°C
Relative Humidity: 5-90%, noncondensing

Mechanical Specifications

Display Handset

Dimensions: 10" x 4.25" x 2.5"
Weight: 1.75 lb

Remote Handset

Dimensions: 10" x 4.25" x 2.5"
Weight: 1.6 lb

Charging Bay

Dimensions: 3.15" x 9.65" x 3.75"
Weight: 2.5 lb
Input Power: 110 volts ± 10% or 240 volts ± 10%
 50 or 60 Hz

Output Power: 9 VDC, 300 MA

Battery Management

Display Handset: 8 hours typical
Remote Handset: 14 hours typical
Recharging Time: 3 hours or less

Worldwide Sales Offices

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FEATURES	LANTEK PRO XL	LANTEK PRO
TSB-67 Level II Accurate	YES	YES
ISO11801 Compliant	YES	YES
Autotest Time	<30 seconds	<40 seconds
Dual NEXT™	YES	YES
Autotest Functions (reporting Pass/Fail for each)	Line Mapping Length DC Loop Ω Capacitance Attenuation Dual NEXT™ ACR Return Loss Average Impedance Delay	Line Mapping Length DC Loop Ω Capacitance Attenuation Dual NEXT™ ACR Return Loss Average Impedance Delay
Cable Expert™	YES	YES
Automatic Cable ID Assessment	YES	YES
TDR (Impedance vs. Length)	YES	NO
Average Noise (for EMI, RFI)	YES	NO
Test Storage	500	500
Graphical Display	YES	YES
Flash EEPROM	YES	YES
Cable Types supported	Over 150	Over 150
AutoSave/AutoPrint	YES	YES
Fiber Optic Support	Optional	Optional

Specifications subject to change.

LANTEK PRO / LANTEK PRO XL Options	included	LANTEK PRO kit	individual accessories
Display Handset (integrated with Dual NEXT and Battery Pack)	✓		
Remote Handset (with NEXT circuitry and Battery Pack)	✓		
Dual Bay Battery Charger	✓		
User's Guide	✓		
Test Lead Set	✓		
Serial Printer/PC Cable and adapter	✓		
Utility Software Package for Test Storage/Retrieval, Data Uploading, and Printing	✓		
Basic and Channel Link Adapters	✓		
Compact, Nylon Carrying Case (with shoulder strap)	✓		
Handbook of LAN Cable Testing	✓		
Two Spare Nickel Cadmium Battery Packs		✓	✓
110 Block Test Leads (568 A & B)		✓	✓
Additional Patch Cable Adapters		✓	✓
Cable Management System (CMS) Software		✓	✓
Rugged, Hardened Carrying Case		✓	✓
Portable Thermal Printer (with charger, battery and extra rolls of thermal paper)		✓	✓
Fiber Optic Light Sources (850/1300nm) and power loss meter			✓