

## 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  
**Resolution:** ± 1.6 dB at basic link limit  
 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

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Specifications subject to change.

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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

\* Includes, but is not limited to UTP and STP for Category 3-5, ISO (Class B, C and D), CATV and user-specified cabling.

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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			✓