



## LANTEK® 6 and 7G LAN Cable Testers



- **High-Performance LANTEK 7G** – sweeps to 1 GHz and supports testing requirements for CAT 6/6a/7/ISO-F and beyond
- **Level IV Accuracy** – independently verified by ETL for baseline, channel and permanent link
- **DUALmode Testing to Save Time** – reports channel and permanent link test results simultaneously
- **Test with Patchcords to Save Money** – performs CAT 6/5e/ISO-D/E testing with standard patchcords to reach the lowest cost of ownership
- **Largest Internal/External Memory Capacity** – makes record management easy
- **Convenient FIBERTEK Accessory** – simultaneously tests two fibers for attenuation and length
- **Innovative TRACETEK Accessory** – performs advanced fiber fault location and troubleshooting functions

### LANTEK 6 and 7G

LANTEK 7G is the world's first independently verified Level IV accurate LAN cable tester capable of certifying installations up to 1 GHz, exceeding requirements for CAT 6/6a/7/ISO-F specifications. LANTEK 7G combines the accuracy and bandwidth of a laboratory network analyzer with the legendary durability and quality that you have come to expect from IDEAL INDUSTRIES, INC. LAN cable certification testers.

LANTEK 6 is a 350 MHz Level III verified LAN cable tester designed to support CAT 6/ISO-E cable testing. Both the LANTEK 6 and 7G use the IDEAL patented measurement system that removes the effects of ordinary patchcords. Therefore both channel and permanent link certification of CAT 6/ISO-E cabling are possible without changing adapters and reconfiguring the tester. By eliminating bulky and expensive adapters, total ownership costs are lowered.

This same technology enables our LANTEK users to use DUALmode to get channel and permanent link test results simultaneously. It also makes it possible to obtain a combination of CAT 6 and ISO-E test results with a single push of the AUTOTEST button to save time and money.





Whether you are just getting into the business or a seasoned veteran, IDEAL has a LAN cable tester for you. LANTEK® 6 and LANTEK 7G are the most advanced testers in the industry



FEATURES	LANTEK 6 Premium	LANTEK 7G Premium
Frequency Range	350 Mhz	1 GHz
Support CAT 3/5/5e/6	✓	✓
Support CAT 6a/7	Upgradable	✓
Test Time with Save CAT 5e	15 sec	15 sec
Test Time with Save CAT 6	21 sec	21 sec
Accuracy Verified by 3rd Party	ETL	ETL
Support DUALmode Testing to Save Time	✓	✓
Test with Patchcords to Save Money	✓	✓
Screen Display Area	Best	Best
Cat6 Test Storage with Graphs	500*	500*
Expansion Slots	2 PCMCIA	2 PCMCIA
Standard External Memory	64MB	64MB
USB/Serial Port	✓	✓
Copper Trace (TDR)	✓	✓
Fiber Optic Distance to Break (TRACETEK)	Option	Option
Fiber Loss Measurement (FIBERTEK)	Option	Option
Fiber Length Measurement (FIBERTEK)	Option	Option
Talk over Fiber (Full Duplex)	Option	Option
Talk over Copper (Full Duplex)	✓	✓
Display Screen on Remote	✓	✓
Toner Button on Remote	Configurable	Configurable
Extra Removable Quick Change/ Quick Charge Batteries	2	2
External Rapid Battery Charger	✓	✓

\*Note: The expanded internal memory is supported in all LANTEK factory shipments after 11/04.

### The Only Tester in the World to Support DUALmode Testing to Save Time and Labor

Save time and money by simultaneously conducting a combination of two tests with LANTEK 6/7G. For example, you can select a combination of channel/permanent link or CAT 5e/6 or CAT 6/ISO-E testing and get both test results in virtually the same amount of time as a single test.

Autotest		
29	11:29	✓
Cat 6 Perm/ISO E Perm		18/13/04
DUAL MODE CAT6-ISOE		
CG-250 U PL		ISO E U PL
✓	Margin	✓
2.5	NEXT	2.5
8.5	Return Loss	8.5
23.5	ACR	23.1
2.1	Attenuation	2.7
Print		



## Unique Adapter Scheme Reduces Cost of Ownership

LANTEK® cable testers utilize an advanced link adapter method to reduce cost of ownership. Both testers come with universal link adapters that are used for basic, channel, and permanent link testing. These channel adapters fit into the case of the unit and are locked in place. This creates a stable and repeatable testing platform while eliminating bulky adapters that extend beyond the end of the unit. Simply plug in the appropriate reference patchcord to the channel adapter, to perform permanent link testing.



### LANTEK Reporter Software

LANTEK Reporter Software allows the installers to upload test results and print reports to meet customer reporting requirements. The Reporter can upload stored tests from LANTEK's internal memory or compact flash card. The software is designed to produce three different kinds of reports based on the required level of detail:

- **Single Line Report** – one line per test
- **Brief Report** – a summary of test results with graphical report
- **Detailed Report** – complete test results with graphs for all tests and cable pairs

In addition to copper cable testing, LANTEK's flexible adapter bay allows a full range of plug-and-test capabilities: FIBERTEK, TRACETEK, Coax, 110/66/BIX Blocks and Patchcord Testing Kits.

#### FIBERTEK Accessory – Attenuation/Length Measurement

FIBERTEK supports testing of attenuation and length simultaneously over two fibers. The technician can use the talkset to communicate over the fiber link under test. FIBERTEK is available in both multimode (850 nm VCSEL & 1300 nm Fabry Perot Laser) and singlemode (1310 nm and 1550 nm Fabry Perot Laser) to support gigabit ethernet testing.

#### TRACETEK Accessory – Fiber Distance to Fault Troubleshooting

TRACETEK is an innovative OTDR-like troubleshooting tool. It is the first fiber accessory to enable a copper tester to trace a fiber run using back reflections to measure the distance to poor quality terminations and cable breaks. TRACETEK can save installers money and time by pinpointing the location of the fiber break without an expensive OTDR.

#### Patchcord/Coax/110/66/BIX Block Testing Kits

With the flexible adapter bay design, the installers can purchase additional testing kits to support all their testing needs. To support testing of legacy networks, the 110/66/BIX Block adapters are designed to adapt LANTEK to test these systems easily. The Coax Testing Kit enables LANTEK to test coax runs for security, data backbone, or CATV applications. Finally, installers can use the Patchcord Testing Kit to evaluate the quality of patchcords before deployment.

## Specifications

LANTEK	Range	Resolution	Accuracy
Length (50 – 100 Ω cable)	0 – 2000 ft	1 ft	± (3% + 3 ft)
Delay	0 – 8000 ns	1 ns	± (3% + 1 ns)
Average Impedance	35 – 180 Ω	0.1 Ω	± (3% + 1 Ω)
Capacitance (Bulk)	0 – 100 nF	1 pF or 3 dig	± (2% + 20 pF)
Capacitance	0 – 100 pF/ft	0.1 pF	± (2% + 1 pF)
DC Loop Resistance	0 – 200 Ω	0.1 Ω	± (1% + 2 Ω)
Attenuation	1 MHz – 1 GHz	0.1 dB	Level III/IV
NEXT	1 MHz – 1 GHz	0.1 dB	Level III/IV
Return Loss	1 MHz – 1 GHz	0.1 dB	Level III/IV
ELFEXT	1 MHz – 1 GHz	0.1 dB	Level III/IV
Noise Floor	< -90 dB		
Dynamic Range	> 90 dB		

<b>Standard Test Compliance</b>	ANSI/TIA/EIA 568B, Category 3/5e/6/6a, ISO C/D/E/F, AS/NZS 3080, IEEE 802.3 Ethernet, EN50173, EN50173.A1
<b>Cable Types</b>	UTP/ScTP/FTP CAT 3/5e/6/7; ISO C/D/E/F (Channel and Permanent Link) IBM STP Type 1,2,6 Coax, 110/66/210 Block
<b>Dimensions</b>	10.1" × 5.0" × 2.3" (256mm x 127mm x 58mm) Display and Remote
<b>Weight</b>	2.3 lb (1050g) – Display 2.0 lb (914g) – Remote 1.2 lb (548g) – Battery
<b>Battery Packs</b>	NiMH (rechargeable)
<b>Typical Operating Life (Battery)</b>	8 hours
<b>Maximum Operating Temperature</b>	0°C – 50°C
<b>Maximum Storage Temperature</b>	-20°C to + 70°C
<b>Humidity</b>	5–90% noncondensing

## Kit Includes

PACKAGE AND ACCESSORIES	LANTEK 6B Basic	LANTEK 6P Premium	LANTEK 7G Basic*	LANTEK 7G Premium*
Soft Carry Case	✓	N/A	✓	N/A
Deluxe Hard Carry Case	N/A	✓	N/A	✓
Batteries	2	4	2	4
Hanging Straps (pair)	✓	✓	✓	✓
LANTEK Reporter Software	✓	✓	✓	✓
Serial Cable	✓	✓	✓	✓
USB Cable	✓	✓	✓	✓
PCMCIA Adapter Card	Option	✓	Option	✓
64 MB CompactFlash Card	Option	✓	Option	✓
CompactFlash Card Reader for PC	Option	✓	Option	✓
LANTEK CAT 6/5e Channel Adapters (2)	✓	✓	✓	✓
LANTEK CAT 6/5e Reference Patchcord (2)	✓	✓	✓	✓
LANTEK CAT 7 (TERA) Channel Adapters (2)	N/A	N/A	✓	✓
LANTEK CAT 7 (TERA) Reference Patchcords (2)	N/A	N/A	✓	✓
AC Adapters (2)	✓	✓	✓	✓
Headset (2)	✓	✓	✓	✓
Dual Bay Battery Charger	Option	✓	Option	✓

\*Upgrades available for LANTEK7 users, call IDEAL Customer Service for details

## Other Accessories

	LANTEK 6/7G
Soft Carry Case	3010-12-0036
Deluxe Hard Carry Case	3010-12-0092
Batteries	1219-00-1604
Serial Cable	6011-50-0031
PCMCIA Adapter Card CompactFlash	2112-27-0603
64 MB CompactFlash Card	2112-27-0605
Compact Flash Card Reader for PC	2112-27-0604
LANTEK CAT 6/5e Channel Adapters (2)	0012-00-0629
LANTEK CAT 6/5e Reference Patchcord (2)	6011-50-0029

	LANTEK 6/7G
Talkset (2)	3010-70-0015
User Manual	6510-00-5000
Dual Bay Battery Charger	0012-00-0642
LANTEK CAT 7 TERA Testing Kit	1019-00-1105
LANTEK CAT 7 NEXANS Testing Kit	1019-00-1100
COAX Testing Adapter Kit	1019-00-0343
NEW – 110 Block Testing Adapter Kit	1019-00-1112
NEW – BIX Block Testing Adapter Kit	1019-00-1114
NEW – 66 Block Testing Adapter Kit	1019-00-1115
SOON – Patchcord Testing Adapter Kit	1019-00-1116

## Fiber Accessories

FIBERTEK/TRACETEK Packages	FIBERTEK MMB	FIBERTEK MMP	FIBERTEK SMB	FIBERTEK SMP	FIBERTEK ALB	FIBERTEK ALLP	TRACETEK MM	TRACETEK SM
FIBERTEK – 850nm MM Adapter	✓	✓			✓	✓		
FIBERTEK – 1300nm MM Adapter	✓	✓			✓	✓		
FIBERTEK – 1310nm SM Adapter			✓	✓	✓	✓		
FIBERTEK – 1550nm SM Adapter			✓	✓	✓	✓		
TRACETEK – 1300nm MM Adapter		✓				✓	✓	
TRACETEK – 1310nm SM Adapter				✓		✓		✓
Fiber Cleaning Starter Kit	✓	✓	✓	✓	✓	✓	✓	✓
62.5/50µm, MM, ST-ST Cable Kit	✓	✓			✓	✓		
62.5/50µm, MM, FC-ST/FC-SC Cable Kit		✓				✓	✓	
9µm, SM, FC-ST Cable Kit			✓	✓	✓	✓		
9µm, SM, FC-ST/FC-SC Cable Kit				✓		✓		✓

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Form No. P-2218 Rev. 10/04  
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Printed in U.S.A.