



## LANTEK® 6/6A/7G LAN Cable Certification Testers



### LANTEK 6/6A/7G

LANTEK offers a family of high performance cable certification testers to support a full range of LAN cable testing. The LANTEK family of certification testers uses the IDEAL patented measurement system that removes the effects of ordinary patchcords, thus making channel and permanent link certification of a cable standard such as CAT6a or ISO-F possible without changing adapters. The same patented technology also makes DUALmode Testing possible so the users can get any two test results simultaneously. As a result, the LANTEKs save you money and time on the job.

- **LANTEK 7G 1GHz** is the world's first independently verified Level IV accurate LAN cable certification tester capable of testing installations up to 1 GHz, exceeding the requirements for CAT6a/7/ISO-F.
- **LANTEK 6A 500MHz** is designed to support the emerging CAT6a Standard to certify LAN cabling to support applications up to 10G Ethernet.
- **LANTEK 6 350MHz** is a Level III verified LAN certification tester designed to support up to CAT6/ISO-E cabling.

- **High-performance LANTEK 7G/6A/6**—sweeps up to 1GHz and supports testing requirements up to CAT6/6a/7/ISO-F and beyond
- **Level IV/IIIe/III 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 CAT6/6a/5e/ISO-D/Ea testing with standard patchcords to achieve 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



### IDEAL DataComm

CUT

STRIP

TERMINATE

TEST

CERTIFY





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



FEATURES	LANTEK 6 Basic	LANTEK 6A Premium	LANTEK 7G Premium
Frequency Range	350 MHz	500 MHz	1 GHz
Supports CAT7 & ISO-F	Upgradeable	Upgradeable	✓
Supports CAT6a	Upgradeable	✓	✓
Support CAT6/5e/3 and ISO-E/D/C	✓	✓	✓
Accuracy Level III/IIIe (Draft)/IV (LANTEK6/6A/7G) verified by	ETL	ETL	ETL
Support DUALmode Testing to Save Time	✓	✓	✓
Test with Patchcords to Save Money	✓	✓	✓
Screen Display Area	Best	Best	Best
CAT6 Test Storage with Graphs	500	500	500
Expansion Slots	2 PCMCIA	2 PCMCIA	2 PCMCIA
Standard External Compact Flash Memory	Option	64MB	64MB
USB/Serial Port	✓	✓	✓
Copper TDR Trace	✓	✓	✓
Fiber Loss Measurement (FIBERTEK)	Option	Option	Option
Fiber Distance to Break (TRACETEK)	Option	Option	Option
Talk over Fiber & Copper (Full Duplex)	✓	✓	✓
Display Screen on Remote	✓	✓	✓
Troubleshooting Tone Generator on Remote	✓	✓	✓
External Rapid Battery Charger & Extra Batteries	Option	✓	✓

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

Save time and money by simultaneously conducting any combination of two tests with LANTEK 6/6A/7G. For example, you can select a combination of channel/permanent link or CAT6a/ISO-F standards and get both test results in virtually the same amount of time as a single test. DUALmode can be used as either a troubleshooting tool or to provide an extra level of confidence to your customers by performing certification to additional test standards that demonstrate the quality of your work.

Autotest			
64	12:21	10/08/05	✓
Cat 6-250 UTP Perm IDEAL INDUSTRIES INC			
C6-250 U PL	C5E U PL		
10/08/2005	2.500B02		
✓	Margin	✓	
4.2	NEXT	14.9	
1.8	Return Loss	2.4	
25.3	ACR	32.1	
1.5	Attenuation	1.6	
Print			



## Unique Adapter Scheme Reduces Cost of Ownership

LANTEK® cable testers utilize an advanced link adapter method to reduce cost of ownership. All 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.



## Kit Includes

PACKAGE AND ACCESSORIES	LANTEK6B Basic	LANTEK6ABAS Basic	LANTEK6APREM Premium	LANTEK6ATRV Travel	LANTEK7GBAS Basic	LANTEK7GPREM Premium	LANTEK7GTRV Travel
Soft Carrying Case	✓	✓	—	—	✓	—	—
Deluxe Hard Shell Case	—	—	✓	—	—	✓	—
Airline Grade Travel Case with Wheels	—	—	—	✓	—	—	✓
PCMCIA Adapter Card & Reader	—	—	✓	✓	—	✓	✓
64MB Compact-Flash Memory Card	—	—	✓	✓	—	✓	✓
Category 6 Universal Adapters & Reference Cables	✓	—	—	—	—	—	—
Category 6a Universal Adapters & Reference Cables	—	✓	✓	✓	✓	✓	✓
CAT7 (TERA) Adapters & Reference Cables	—	—	—	—	✓	✓	✓
Batteries	2	2	4	4	2	4	4
DUAL Bay Rapid Battery Charger	—	—	✓	✓	—	✓	✓
Headsets (2), AC Adapters (2), Hanging Straps (2), Serial Cable (1), USB Cable (1), LANTEK Reporter Software (1)	✓	✓	✓	✓	✓	✓	✓

**Note:** Delivery content may vary outside of US. Please contact your local IDEAL sales office for details.  
The airline grade Travel Case fits in most airline overhead storage compartments.

## Specifications

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

Standard Test Compliance	ANSI/TIA/EIA 568B, CAT7/6a(Draft)/6/5e/3, ISO-F/Ea(Draft)/E/D/C, AS/NZS 3080, IEEE 802.3 Ethernet, EN50173, EN50173.A1
Cable Types	UTP/ScTP/FTP CAT 3/5e/6/6a(Draft)/7; ISO-C/D/E/Ea(Draft)/F (Channel and Permanent Link) IBM STP Type 1,2,6 Coax, 110/66/210 Block
Dimensions (Display and Remote)	10.1" $\times$ 5.0" $\times$ 2.3" 256mm $\times$ 127mm $\times$ 58mm
Weight	2.3 lb (1050g) – Display 2.0 lb (914g) – Remote 1.2 lb (548g) – Battery
Battery Packs	NiMH (rechargeable)
Typical Operating Life (Battery)	8 hours
Maximum Operating Temperature	0°C – 50°C
Maximum Storage Temperature	–20°C to + 70°C
Humidity	5–90% noncondensing

**Note:** The list of Standard Test Compliance is not exhaustive, IDEAL adds and updates new standards regularly. For more information, please contact your IDEAL sales office.



### 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

## FIBERTEK™ & TRACETEK™ Fiber-Optic Accessories

### 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) Gigabit Ethernet certification.

### 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.

## Fiber Accessories

FIBERTEK/TRACETEK Packages	FIBERTEK MMB	FIBERTEK MMP	FIBERTEK SMB	FIBERTEK SMP	FIBERTEK ALLB	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				•		•		•

## Test Adapters and Other Accessories



DESCRIPTION	PART NUMBER
CAT7/ISO-F NEXANS Testing Kit	1019-00-1100



DESCRIPTION	PART NUMBER
CAT7/ISO-F TERA Testing Kit	1019-00-1105



DESCRIPTION	PART NUMBER
110 Block Testing Adapter Kit for CAT5e	1019-00-1112



DESCRIPTION	PART NUMBER
Coax Testing Adapter Kit for ANSI/SCTE 74 2003 Cable TV Drops up to 100 or 300 ft (BNC-Connector)	1019-00-0343



DESCRIPTION	PART NUMBER
BIX Block Testing Adapter Kit for CAT5e	1019-00-1114



DESCRIPTION	PART NUMBER
66 Block Testing Adapter Kit for CAT5e	1019-00-1115



DESCRIPTION	PART NUMBER
Patchcord Testing Adapter Kit for CAT6	1019-00-1116

## Other Accessories

Soft Carry Case	3010-12-0036
Deluxe Hard Shell Case	3010-12-0092
Airline Grade Travel Case with Wheels	3010-12-0105
Batteries	1219-00-1604
Serial Cable	6011-50-0031

PCMCIA Adapter Card	2112-27-0603
64MB Compact Flash Card	2112-27-0605
Compact Flash Card Reader for PC	2112-27-0604
LANTEK CAT6A Enhanced Adapters (2)	0012-00-0656
LANTEK CAT6A Reference Patchcords (2)	6011-50-0029



DESCRIPTION	PART NUMBER
Airline Grade Travel Case with Wheels	3010-12-0105

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Form No. P-2218  
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ISO 9001:2000 QMS

01/06  
 Printed in U.S.A.