



## LANTEK<sup>®</sup> 7 LAN Cable Certifier



- *First cable tester fully compliant with emerging Category 7/ISO F standards, with a frequency range up to 750 MHz*
- *Full Category 7/ISO F AutoTest, with graphs in approximately 35 seconds*
- *Advanced link adapter method provides more versatility and reduces cost of ownership*
- *Built in TDR ready for copper and fiber*
- *First fiber accessory for a copper tester that traces fiber runs, displays distance to and magnitude of events*
- *Display unit comes with 1/4 VGA color screen, remote unit comes with two-line black and white LCD display*
- *Serial and USB ports for uploading tests and upgrading firmware*
- *Two full-function PCMCIA slots accept compact flash memory and provide for future capabilities*

LANTEK 7 is the first LAN cable tester capable of certifying installations up to 750 MHz, exceeding draft Category 7/ISO F specifications. Certifying these installations has required a combination of cable testers and network analyzers. Now you can certify these systems up to 750 MHz simplifying the task while reducing costs.

LANTEK 7 utilizes an advanced link adapter method to reduce cost of ownership. LANTEK 7 comes with a pair of Category 7/ISO F channel adapters. 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 extending beyond the end of the unit. By simply plugging in a Category 7/ISO F reference patch cord to the channel adapter, you can now perform Category 7/ISO F permanent link testing. Should the plug ever wear out the patch cord is replaced rather than the entire assembly reducing lifetime cost of ownership.

Among the LANTEK 7 accessories are the industry's most advanced fiber options, FIBERTEK and TRACETEK. FIBERTEK enables loss, length, bi-directional testing over two fibers, and talkset over fiber capabilities for 850 and 1300 nm Multimode and 1310 and 1550 nm Singlemode fiber.

TRACETEK is the first fiber accessory for a copper tester that will trace a fiber run, locate distance to events along the fiber, and measure the magnitude of the event. This capability can eliminate the need for a more costly OTDR in campus network environments.



*Certifying these higher performance systems has required a combination of cable testers and network analyzers. Now you can certify these systems up to 750 MHz with LANTEK 7, simplifying the task while reducing costs.*



# LANTEK<sup>®</sup> 7 LAN Cable Certifier

The LANTEK 7 display unit comes with the brightest 1/4 VGA color screen in the industry. The remote unit has a two-line black and white LCD display to enhance communications, and can initiate an AutoTest to increase productivity in one-person operations. Both units have an overmolded edge to function in the harshest environments.

Along with serial and USB ports, LANTEK 7 comes standard with two full-function PCMCIA slots to accept compact flash memory and provide for future capabilities. This allows for virtually unlimited test storage with graphs keeping your unit in the field. LANTEK 7 comes with LANTEK Reporter PC software that can upload stored tests from the serial or USB ports, or compact flash memory and can create brief, summary, or detailed certification reports for your clients.

Don't limit yourself to Category 6/ISO E. LANTEK 7 allows you to certify the most advanced installations.

LANTEK 7	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	1-750 MHz	0.1 dB	Level III*
NEXT	1-750 MHz	0.1 dB	Level III*
Return Loss	1-750 MHz	0.1 dB	Level III*
ELFEXT	1-750 MHz	0.1 dB	Level III*
Noise Floor	< -90 dB		
Dynamic Range	> 90 dB		

\* Level III only specified to 250 MHz

<b>Autotest Storage Capacity (Internal Memory)*</b>	
No Graphics	Up to 6,000 Tests
With Graphics	Up to 100 Tests
<b>Autotest Storage Capacity (External 32 MB Flash)*</b>	
No Graphics	Up to 24,000 Tests
With Graphics	Up to 400 Tests with 32 MB
* Depending on Autotest Categories	Up to 3,200 Tests with 256 MB
Autotest time (250 MHz)	Approx. 25 seconds
Autotest time (600 MHz)	Approx. 35 seconds
Standard Test Compliance	ANSI/TIA/EIA 568B, Category 6 (Draft), ISO C/D and ISO E/F (draft), AS/NZS 3080, IEEE 802.3 Ethernet, EN50173, EN50173.A1
Cable Types	UTP/ScTP/FTP CAT 3/5e/6/7; ISO C/D/E/F (Channel, Basic, and Permanent Link) IBM STP Type 1,2,6, Coax
Dimensions	10.1" x 5.0" x 2.3" Display & Remote 256mm x 127mm x 58mm Display & Remote
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 hrs
Max. Operating Temp.	0°C - 50°C
Max. Storage Temp.	- 20°C to + 70°C
Humidity	5-90 % noncondensing

LANTEK 7 comes standard with all the items necessary to certify your job and create certification reports:

	LANTEK 7	LANTEK 7P
Soft Carry Case	✓	
Display unit with battery	✓	✓
Remote unit with battery	✓	✓
LANTEK Reporter Software	✓	✓
Serial and USB cables	✓	✓
Two AC wall adapters	✓	✓
Two talksets	✓	✓
User manual	✓	✓
Quick Start Guide	✓	✓
Registration Card	✓	✓
<b>Included are the following adapters and Patch cords:</b>		
Two Category 7 channel adapters	✓	✓
Two Category 7 Reference Patch cords	✓	✓
Two Category 7 to Category 6 Reference Patch cords	✓	✓
<b>Premium Package:</b>		
Hard carry case		✓
PCMCIA adapter		✓
32 MB compact flash		✓
USB port flash reader for PC		✓
Offline battery charger		✓

Field calibration does not require a special adapter. It is accomplished through connecting a patch cord between the channel adapters.

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