



## SIGNALTEK™ Cable Performance Tester



- **Gigabit Performance Qualification** – Test to IEEE 802.3 standards
- **Selectable Performance Testing** – qualify performance of Data, Voice over IP, and IP Video applications
- **Performs Gigabit Ethernet link establishment test in 10 seconds**
- **Data Monitoring** to detect intermittent network problems
- **Smart Autotest Function** detects the presence of the SIGNALTEK remote, active network device or open ended cable and automatically runs the appropriate test suite
- **Intuitive Graphical User Interface** for fast and easy operation
- **Internal and USB Data Storage** – store 20,000 tests internally or unlimited on USB drive
- **Prints Easy-to-Read Pass/Fail Qualification Reports**

### Document Performance of Twisted Pair Voice and Data Cabling

SIGNALTEK™ provides a technically innovative method to test and document the performance of voice, data, and video applications for cabling installers and network technicians.



**IDEAL DataComm**

CUT

STRIP

TERMINATE

TEST

CERTIFY



## SIGNALTEK™ – High-Performance Gigabit Ethernet Testing

SIGNALTEK™ is the most cost-effective Gigabit Ethernet cable performance tester in the world. It tests the link's ability to support applications by transmitting Ethernet packets on the link and measuring performance according to the IEEE 802.3ab Gigabit Ethernet standard, the ultimate performance indicator for any network.

- Provides comprehensive cable testing for voice, data, and video applications
- Performs complete wiremap and length tests of: 1, 3, and 4 pair UTP/STP, and series 6/59 coaxial cable to TIA-568 A/B and TIA-570 standards
- Performs a full IEEE 802.3ab compliant Gigabit Ethernet packet test in about 35 seconds with 97% performance certainty
- Includes a TDR (Time Domain Reflectometer) for accurate length measurements and to aide in locating cabling faults by providing distance to short/open information
- Supplied alligator clips allow testing of speaker, alarm, thermostat, home automation devices, and nearly any other type of control wire

## SIGNALTEK™ – a technically innovative performance, monitoring and network troubleshooting tool

In addition to cable performance qualification, SIGNALTEK™ can be configured to run for several minutes or hours at a time. While stress testing critical network links, SIGNALTEK™ transmits hundreds of Gigabits of information across the network while looking for dropped packets. This monitoring mode allows SIGNALTEK™ to be used to isolate intermittent network problems that are difficult to detect. Adopting the latest generation of Gigabit Ethernet technology, IDEAL's innovation brings the best performance to this new class of affordable testers.

- Offers service detection to verify true 10/100/1000 Mbps Ethernet operations
- Provides Bit Error Rate test for VoIP, data, and video-over-IP applications
- User-defined data logging and network monitoring to detect problems that may cause network outages
- Selectable test modes to qualify cabling support of Data, Voice over IP, and IP Video transmissions



## SIGNALTEK™ – a flexible tool to test any IP device

Internet Protocol (IP) is fast becoming the standard communications protocol for every type of network and home technology device. SIGNALTEK™ leverages its tri-speed (10/100/1000) Ethernet processor to provide performance and activity testing of any addressable IP device in the network.

- IP pinging can be used to verify the communication of many devices including IP cameras, home automation, and A/V control panels
- Offers network diagnostic tools such as link establishment, port LED blink, and ping
- Supports static and dynamic (DHCP) IP configuration
- Allows multiple target IP and web addresses for pinging several network devices and confirming operation of network switches and routers

JOB NAME	Remote	Link	No-Link
Auto-Test Preferences			
Wiremap	✓	✓	✓
Link Establishment	✓	✓	✓
Cable Performance	✓	✓	✓
VoIP Performance	✓	✓	✓
Web Performance	✓	✓	✓
Video Performance	✓	✓	✓
DHCP		✓	✓
Ping		✓	✓

Run Save Setup

## SIGNALTEK™ makes reporting and data storage easy

The SIGNALTEK™ reporting and data storage system is designed for installers and network technicians with ease-of-use and flexibility in mind.

- Generates easy pass/fail reports of link performance in accordance with IEEE 802.3ab standards
- Stores 20,000+ records on internal memory
- Accepts USB memory drives for unlimited storage
- Direct printing to supported USB printers
- No special software required, view reports with any web browser

TEST SUMMARY							
Cable ID	Date	Time	Wdscomp	Link	Performance	BICP	Ping
ROOM_A1	16-Jan-2006	12:22	PASS	PASS	PASS		
ROOM_A2	16-Jan-2006	12:25	PASS	PASS	PASS		

  

TEST DETAILS					
Cable ID: ROOM_A1 Cable Type: Cat6UTP					
WIREMAP TEST					
Pair	Length	Show	Status	Polarity	Crossed
1,2	30	3	Good	Positive	None
3,6	30	4	Good	Positive	None
4,5	30	2	Good	Positive	None
7,8	30	0	Good	Positive	None

  

LINK TEST			
Status	Rate	Speeds	MS
Up	1000baseT	FLB	NDKX

  

PERFORMANCE TEST					
Type	Threshold	Duration	Transmit	Receive	Error
HTTP	0	30	250000	250000	0

  

BICP TEST					
Type	Address	Mask	Server	Subnet Mask	Timeout

  

PING TEST							
Address	Interval	Size	Count	Transmitted	Received	Errors	Target

## Specifications

### Cable Types

- Voice/phone cable – USOC/RJ11/RJ12 interface
- Data cable – (STP/UTP) RJ45 for CAT 3/5e/6/6a/7 cabling
- Coax cable – via RJ45-to-F patchcord, series 58, 59, 6 cabling (75 ohm)

### Cable Length Measurement

- Exceeds IEEE 802.3 specifications

### Battery Life: Standard AA Alkaline Batteries

- Standby – 90 days
- Cable testing – 30 hours
- Network monitoring – 4 hours

### Ports/Connections

- RJ45 test interface port
- Mini-USB “A” device port
- Standard USB “B” host port
- DC power input for long-term network monitoring

### Physical Dimensions

- Display Handset: 7.9” L × 3.6” W × 1.5” D (20.1cm × 9.1cm × 3.8cm)
- Remote Handset: 6.8” L × 3.5” W × 1.5” D (17.3cm × 8.9cm × 3.8cm)
- Near-end Weight: 12.5 oz. (354g) *Weight without batteries*
- Remote-end Weight: 9 oz. (255g) *Weight without batteries*

2.8” (7.1cm) ¼ VGA Color Display with backlighting for use in low light condition

Multi-color LEDs indicate link status, loopback mode, 10/100 and Gigabit device detection, Autotest pass/fail, and battery condition

Autotest key to initiate tests from the remote end for one person operation

Port status function detects 10/100 or Gigabit Ethernet devices

Compact design and soft over-mold sides fit well into any sized hand

Displays result for last autotest via red or green LED indication

Single button push for active network testing and monitoring

Single button cable testing

Context sensitive softkeys

Quick navigation key returns to Job Manager screen

Easy-to-navigate user interface



# SIGNALTEK™ Standard Kit

Catalog No. 33-974

- 1 SIGNALTEK™ Near-end and remote-end handset
- 1 Black Nylon carrying case
- 2 12" (30.5cm) RJ11 silver satin cables
- 2 24" (61cm) RJ45-to-F patchcords
- 2 12" (30.5cm) RJ45 shielded patchcords
- 2 12" (30.5cm) RJ45-twin alligator clip cords
- 8 AA alkaline batteries
- 1 USB cable
- 1 Quickstart guide
- 1 CD-ROM User Manual



No. 33-974



SIGNALTEK™ Optional  
Power Adapter – 4010-00-0136

DESCRIPTION	CAT NUMBER
SIGNALTEK™ Cable Performance Tester	33-974
Replacement cable accessory kit – Contains all original cables in SIGNALTEK™ kit	1219-91-0003
RJ45 to 8 head alligator clip	K-7920
<b>OPTIONAL</b>	
Universal (120-240V) AC-DC power adapter (1)	4010-00-0136

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