



IDEAL NETWORKS

Proof of Performance



NOW WITH
TOUCHSCREEN



SignalTEK NT

Copper and Fiber Network Transmission Tester



IDEAL INDUSTRIES, INC.

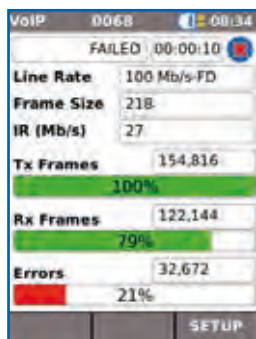
Proof of Performance

SignalTEK NT

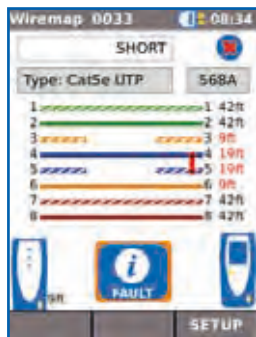
Network Transmission Tester More than a qualifier



No calibration required plus
replaceable RJ45 contacts



VoIP fail - 21% packet loss



Wiremap test displaying
open and short

If you install, maintain or troubleshoot data cabling and Ethernet networks, SignalTEK NT allows you to prove the performance up to Gigabit Ethernet transmission rates.

By simulating actual network traffic users are able to test and document network and data cable performance to Gigabit Ethernet standards.

Where system warranties are not required the SignalTEK NT is a cost effective way of proving your copper and fiber networks provide error-free performance.

Transmission testing proves real performance

There is no industry standard defining the testing requirements of cable qualifiers, consequently passing a qualification test does not prove that the installed structured cabling will provide flawless data transmission.

Uniquely, SignalTEK NT utilizes a test method known in wide area networks as transmission testing to prove the performance of a network by sending real Ethernet data frames through the cabling and/or network devices to compare the error rate against the IEEE802.3ab Gigabit Ethernet standard. This provides a clear standards based Pass/Fail of the link being tested.

SignalTEK NT requires no configuration from the user as the two handsets automatically pair ready for testing; just select a usage scenario to simulate the appropriate service, from VoIP to CCTV, Video and web traffic.

Installation testing

Cabling:

- Network traffic performance test on copper and fiber to IEEE802.3ab standard
- Wiremap test for open, shorts, miswires and split pairs to TIA-568 standard
- Gigabit link verification for copper and fiber cabling

Active network:

- Network load testing through switches simulating CCTV/IPTV/VoIP/Web traffic
- PoE/PoE+ verification that displays available voltage at device location
- Check Ethernet connectivity at device location to 10/100/1000 Mb/s
- Verify network configuration (device IP/gateway address/subnet mask)
- Switch port identification via LLDP/CDP protocols
- Use a list of wiremap templates for common Ethernet cable types including CAT 6A/7A/8, and non-Ethernet cable, such as Profinet and ISDN.

Troubleshooting/diagnostics

Cabling:

- Distance to fault using TDR technology (copper only)
- Ability to identify and trace cables with a compatible amplifier probe (62-164)
- Optical power indication (with compatible SFP modules)

Active network:

- Network load testing through switches simulating CCTV/IPTV/VoIP/Web traffic
- Stress test network before installing bandwidth hungry devices
- Port blink to visually trace cable from work area outlet to network switch
- Displays port ID of LLDP/CDP enabled switches to eliminate manual cable tracing
- Identify network connection problems as hardware, network or configuration faults
- Ping local network devices and Internet URL's
- Count number of hops between network points with traceroute tests
- PoE load testing to confirm available power meets PoE device requirements

Send test reports from anywhere using the free app



IDEAL
AnyWARE



Step 1 Test

- Create job folder
- Enter job site information
- Perform autotest on copper/fiber cabling and copper/fiber networks

Step 2 Connect

- Activate SignalTEK NT wireless hotspot
- Connect your mobile phone or tablet with the IDEAL AnyWARE App
- Transfer test reports to your mobile device
- View test reports

Step 3 Send

- Select reports (PDF or CSV) to send
- Select preferred transfer method – email, ftp, cloud storage etc.
- Send file
- Alternatively save test reports to USB key

Download the FREE App today



Network Performance Test

- Port speed 10/100/1000
- PoE/PoE+ detection
- Web data performance
- IP video performance
- IP CCTV performance
- VoIP performance



Cable Performance Test

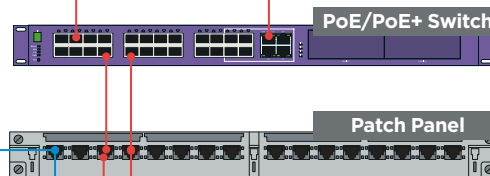
- TDR wiremap
- IEEE 802.3ab Gigabit data
- Custom wiremap for non-Ethernet cabling such as Profinet



Router



Internet/WAN



PoE/PoE+ Switch

Patch Panel



Network performance remote



Cable performance remote

Active LAN Links
Inactive Data Cable

Network diagnostics & troubleshooting

- Network speed 10/100/1000
- Network IP/DHCP configuration
- CDP/LLDP port identification
- PoE/PoE+ detection/load test
- Ping/trace route
- Blink switch link LED



IP Phone



Wireless AP



IP Camera

SignalTEK NT

Network Transmission Tester

More than a qualifier

Test Reporting

SignalTEK NT automatically generates test reports in PDF or CSV format.

The summary page of each report can be customized to include logo, company and operator details. Choose between 3 different reports that can show either passed, failed or all test reports in each report:

- Summary
- Brief
- Full (see example on the right side)

Ordering Information

Part No.	Kit Contents
R156005	SignalTEK NT – Network Transmission Tester. Includes 1 x display with touchscreen, 1 x remote, 2 x NiMH batteries, 2 x patch cables - 12 inch, Cat 5e STP, 2 x power supply with EU/UK/US adapters, 1 x USB Wi-Fi adapter, 1 x quick reference guide, 1 x carry case

For the copper only version without network troubleshooting, please check out our SignalTEK CT. 

Optional Accessories

Part No.	Description
MGKSX1	1 x 1000BASE-SX Fiber kit. Includes 850nm SFP (Small Form factor Pluggable) SX transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex adapter. 2 required for Gigabit transmission testing.
MGKLX2	1 x 1000BASE-LX Fiber kit. Includes 1310nm SFP (Small Form factor Pluggable) LX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adapter. 2 required for Gigabit transmission testing.
MGKZX3	1x 1000BASE-ZX Fiber kit. Includes 1550nm SFP (Small Form factor Pluggable) ZX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adapter. 2 required for Gigabit transmission testing.
62-164	1 x IDEAL amplifier probe
150058	1 x RJ45 insert extraction tool, 10 x lifejack RJ45 inserts

For more accessories including numbered wiremap remotes please visit our website.

Basic Specifications

Max. No. of Jobs	Max. No. of Stored Test	Max. Measured Length	Battery Life	Dimensions per handset in inches	Weight per handset
50	5000	593 ft.	5 hours	6.9 x 3.2 x 1.6	0.88 lbs

For detailed specifications, please visit our website.



Company
Logo

Job Name: C:\NT\A
Date Tested: 10/20/2012
User Name: 10/20/2012
Info 1: 10/20/2012
Info 2: 10/20/2012
Info 3: 10/20/2012
Info 4: 10/20/2012
Info 5: 10/20/2012
Info 6: 10/20/2012
Info 7: 10/20/2012
Info 8: 10/20/2012
Info 9: 10/20/2012
Info 10: 10/20/2012

Device: 10/20/2012
Computer: C:\NT\A
Device: 10/20/2012
Device: 10/20/2012
Device: 10/20/2012
Device: 10/20/2012
Device: 10/20/2012
Device: 10/20/2012
Device: 10/20/2012
Device: 10/20/2012
Device: 10/20/2012

SignalTEK NT Test Report

FAIL
10/20/2012

Test	Unit	Value	Pass/Fail
Link Rate	1000 Mbps	1000 Mbps	Pass
Link Latency	100 ms	100 ms	Pass
Link Error Rate	0.000000	0.000000	Pass
Link Signal Level	-100 dBm	-100 dBm	Pass
Link SNR	20 dB	20 dB	Pass
Link BER	0.000000	0.000000	Pass
Link Jitter	100 ns	100 ns	Pass
Link Loss	0.000000	0.000000	Pass
Link Power	0.000000	0.000000	Pass
Link Temperature	25.000000	25.000000	Pass
Link Voltage	1.200000	1.200000	Pass
Link Current	0.000000	0.000000	Pass
Link Resistance	0.000000	0.000000	Pass
Link Capacitance	0.000000	0.000000	Pass
Link Inductance	0.000000	0.000000	Pass
Link Impedance	0.000000	0.000000	Pass
Link Phase	0.000000	0.000000	Pass
Link Frequency	0.000000	0.000000	Pass
Link Wavelength	0.000000	0.000000	Pass
Link Velocity	0.000000	0.000000	Pass
Link Acceleration	0.000000	0.000000	Pass
Link Deceleration	0.000000	0.000000	Pass
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