



More than a qualifier

NOW WITH
TOUCHSCREEN



SignalTEK NT

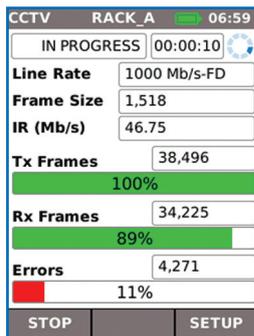
Copper and Fibre Network Transmission Tester

SignalTEK NT

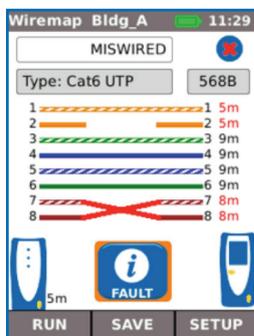
Network Transmission Tester More than a qualifier



No calibration required plus replaceable RJ45 contacts



CCTV video fail - 11% data 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 fibre 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 utilises 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 fibre to IEEE802.3ab standard
- Wiremap test for open, shorts, miswires and split pairs to TIA-568 standard
- Gigabit link verification for copper and fibre cabling
- 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.

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

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)

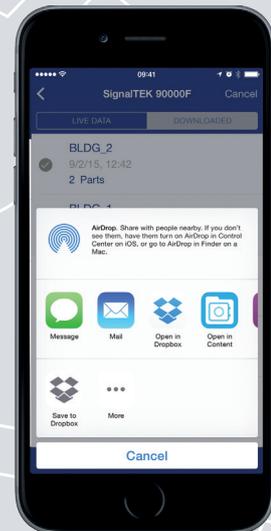
Active network:

- 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



TREND
AnyWARE[®]
APP



Step 1

Test

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

Step 2

Connect

- Activate SignalTEK NT wireless hotspot
- Connect your mobile phone or tablet with the TREND 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



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

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 customised 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 - 30cm, 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 Fibre kit*. Includes 850nm SFP (Small Form factor Pluggable) SX transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex adapter |
| MGK LX2 | 1 x 1000BASE-LX Fibre kit*. Includes 1310nm SFP (Small Form factor Pluggable) LX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adapter |
| MGKZX3 | 1x 1000BASE-ZX Fibre kit*. Includes 1550nm SFP (Small Form factor Pluggable) ZX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adapter |
| 62-164 | 1 x TREND amplifier probe |
| 150058 | 1 x RJ45 insert extraction tool, 10 x lifejack RJ45 inserts |

For replacement accessories, please visit our website.
*2 required for Gigabit transmission testing.

Basic Specifications

| Max. No. of Jobs | Max. No. of Stored Test | Max. Length | Battery Life | Dimensions per handset in mm | Weight per handset |
|------------------|-------------------------|---------------|--------------|------------------------------|--------------------|
| 50 | 5000 | 181 m/593 ft. | 5 hours | 175 x 80 x 40 | 0.4 kg |

For detailed specifications, please visit our website.

SIGNALTEK NT Test Report

Job Name: CAMFUS_A
Date Tested: July 20 2015
Time Tested: 10:53
Info 1: 10.0.0.1
Info 2: City
Info 3: 10.0.0.5
Info 4: FL 7
Info 5: CAB 3
Info 6: 0004
Info 7: ROW 14
Info 8: PORT 23

Client: Tester
Company:
Address 1: Stokenchurch
Address 2:
City: High Wycombe
State:
Zip: HP14 3SX
Country: UK
Phone1:
Phone2:

ESN: 021606-884157
ESN: 021606-88413C

FAIL test0001
PUE 56V
Port # 2

| Port | Line Rate | Duplex | IPv4 | IPv6 | Setup | Results | Skew (ns) |
|------|-----------|--------|---------|----------|--|---------|-----------------|
| Auto | Auto | Auto | Enabled | Disabled | BASS 1000 Mb/s Full Duplex Assigned 192.168.1.8 | 0 | 1.2 3.6 4.5 7.8 |

| Setup | Results |
|---|--|
| VoIP Data No. of Calls (Frames) 0 Info Rate (Mb/s) 0 Frame Size 256 | Tx 309,633 100 Rx 309,633 100 Lost 0 0 Errored 0 0 |
| Web Data No. of Sessions (Frames) 0 Info Rate (Mb/s) 0 Frame Size 1538 | Tx 222,312 100 Rx 222,312 100 Lost 0 0 Errored 0 0 |
| Video Data No. of Streams (Frames) 0 Info Rate (Mb/s) 0 Frame Size 1538 | Tx 514,538 100 Rx 514,538 100 Lost 0 0 Errored 0 0 |
| CCTV Data No. of Cameras (Frames) 0 Info Rate (Mb/s) 0 Frame Size 1538 | Tx 280,128 100 Rx 280,128 100 Lost 0 0 Errored 0 0 |
| POE Load Type DW Port 5 | Pair 12-36 Voltage (V) 0 Current (mA) 0 Power (W) 0 |
| NetScan Host Address 192.168.1.8 Scan Range Class C/24 | Hosts Found 0 |
| Ping Destination Address www.google.com Port 80 | Tx (Frames) 0 Rx (Frames) 0 Min RTT (ms) 0 Avg RTT (ms) 0 Max RTT (ms) 0 |
| Trace Route Destination Address www.yahoo.com Port 80 | Total Hops 0 Time 0 (ms) Time 0 (ms) Time 0 (ms) |

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