



TREND NETWORKS

# More than a qualifier

NOW WITH  
TOUCHSCREEN



## SignalTEK NT

Copper and Fibre Network Transmission Tester

1.888.610.7664



[www.calcert.com](http://www.calcert.com)

[sales@calcert.com](mailto:sales@calcert.com)

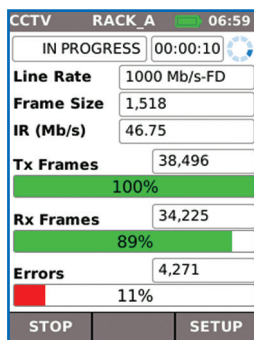
Depend On Us

# SignalTEK NT

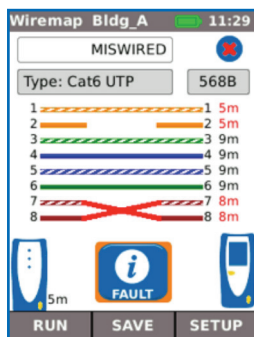
## Network Transmission Tester More than a qualifier



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<sup>®</sup>  
APP



## Step 1

### Test

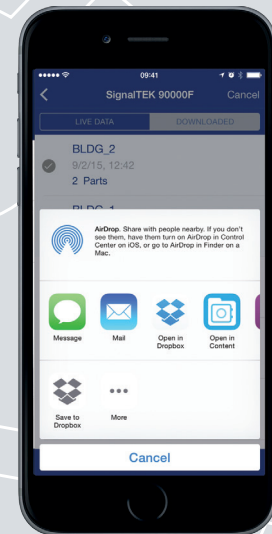
- Create job folder
- Enter job site information
- Perform autotest on copper/fibre cabling and copper/fibre networks



## 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



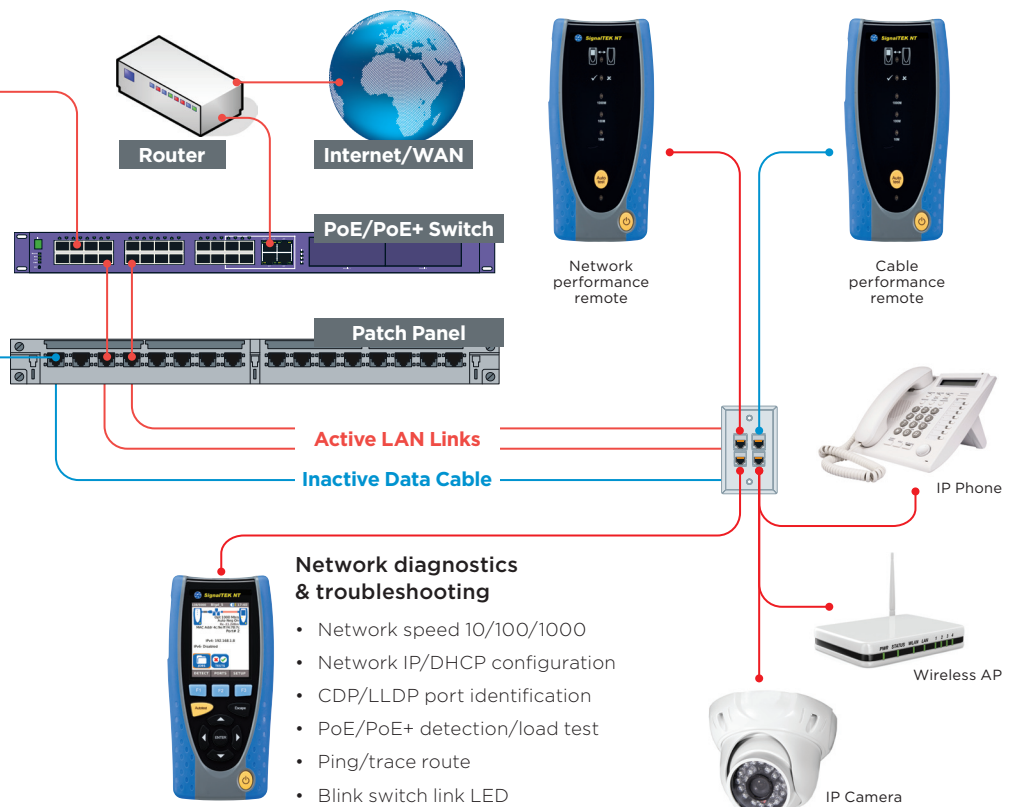
### Network Performance Test

- 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

1.888.610.7664



www.calcert.com

sales@calcert.com

Depend On Us



# 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  |
|----------------|---|
| <b>R156005</b> | <b>SignalTEK NT – Network Transmission Tester.</b><br>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   |
|---------------|---|
| <b>MGKSX1</b> | 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   |
| <b>MGKLX2</b> | 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 |
| <b>MGKZX3</b> | 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  |
| <b>62-164</b> | 1 x TREND amplifier probe   |
| <b>150058</b> | 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.



TREND NETWORKS

SignalTEK NT Test Report

Job Name: CAMFUS\_A  
 Date Tested: July 20 2015  
 Time Tested: 10:53  
 Info 1: 1st party unit  
 Info 2: City  
 Info 3: Building 5  
 Info 4: FL 7  
 Info 5: CAB 3  
 Info 6: DDF 4  
 Info 7: ROW 14  
 Info 8: PORT 23

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

EIN: 021656-084157

FAIL test0001

EIN: 021656-084157

Port 54V  
 Port 2

| Setup     |             | Results              |           |
|-----------|-------------|----------------------|-----------|
| Port      | Setup       | Results              |           |
| Line Rate | Auto        | 1545                 | Skew (ns) |
| Duplex    | Auto        | 1000 Mbps            |           |
| IPv4      | Full Duplex | 0                    |           |
| IPv6      | Disabled    | Assigned 192.168.1.8 |           |
|           |             | 1.2                  | 3.6       |
|           |             | 4.5                  | 7.8       |
|           |             |                      |           |
| Setup     |             | Results              |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |
|           |             |                      |           |