



**Save money** by using a single multifunction device in place of separate copper, fibre and Power over Ethernet (PoE) testers

**Increase efficiency** through simplifying and accelerating cable installation including advanced Ethernet network troubleshooting

**Cost effective** way to test network links to Gigabit performance standards including IEEE 802.3ab

**Future-proof investment** with a cable qualifier that is already IPv6 and PoE+ compatible

- **Full Gigabit load cable test**
- **Excellent wiremapping by pin, with distance to fault**
- **Support for copper and fibre optic networks**
- **Simplified network load testing through hubs and switches**

## **SignalTEK II**

*Handheld cable and network qualifier designed to confirm correct installation of copper and fibre cabling capable of supporting voice, video, data and CCTV applications over 10/100 Megabit or Gigabit Ethernet.*

SignalTEK II is essential for all installers of data cabling whether working in residential premises, small to medium-sized offices, or industrial Ethernet environments.





## **SignalTEK II**

***A handheld tester for voice, video, data and CCTV applications over copper and fibre***

*SignalTEK II provides an alternative to a cable certifier for applications such as business or residential installations which do not require certification to EIA/TIA or ISO/IEC standards*

### ***Full Gigabit bi-directional load testing***

Save time and improve the reliability of your test results with full bi-directional testing

### ***Additional Ethernet troubleshooting capabilities***

Maximise Return on Investment with the added ability to identify Ethernet, Power over Ethernet (PoE) and PoE+ issues, in addition to verifying Ethernet connectivity

### ***Suitable for both copper and fibre***

Eliminate the need to purchase and carry multiple different testers by using one device to conduct active and passive testing across both copper and fibre networks

### ***Wiremapping by pin as well as pair***

Save time on the job and locate wiremap faults more quickly and accurately by testing via both pin and pair, detecting split pairs and identifying the distance to fault

### ***Reporting of test results***

Simplify customer reporting and create accurate documentation on jobs undertaken using SignalTEK II to generate and store test results in standards compliant XML format. Additionally, view and export results to enable report printing

### ***Load test through hubs and switches***

Save money by measuring available network speed without needing to purchase a separate transmission tester

## **Applications for SignalTEK II**

***Qualify new cabling installations*** to generate end-user confidence in the infrastructure to support desired applications such as Voice over IP (VoIP)

***Test that existing cabling*** can support Gigabit Ethernet

***Troubleshoot network issues*** by performing active network testing through hubs and switches all the way to the server

***Run transmission tests*** eg. network speed and confirm bandwidth requirements before, during and after moves, adds and changes

***Document network connectivity*** and generate detailed reports proving job completion to initiate end-customer payment



## SignalTEK II

SignalTEK II simplifies and accelerates routine tasks with intuitive controls, automatic functions and clear, colour screen

**Ports for both copper and fibre**

Save money by employing a single device to test entire networks

**User-exchangeable RJ45 inserts**

Reduce downtime by not needing to send tester to a service centre

**Virtual keyboard**

Work efficiently, quickly and easily input data

**Autotest function**

Reduce network downtime by speeding up testing of common applications

**A choice of power inputs**

Flexibility of working environment through options of rechargeable or alkaline batteries and mains power



**USB interface and internal memory**

Generate accurate customer reports more easily by exporting data via memory sticks

**2.8" colour screen**

Reduce the chance of false readings with a clear, bright and backlit screen

**Multifunction and cursor keys**

Intuitive interface minimises user training requirements, plus improves productivity in the field as tests can be completed in minimal time

**Durable rubber moulded housing**

Robust tester that stands up to demands of the user

### Clear results

|                    |             |      |
|--------------------|-------------|------|
| CCTV               | MyJob       | 6:03 |
| IN PROGRESS 0:0:10 |             |      |
| Link Rate          | 100 Mb/s-FD |      |
| Frame Size         | 1,518       |      |
| Frame Fill         | Random      |      |
| Tx                 | 72,371      |      |
|                    | 92%         |      |
| Rx                 | 62,405      |      |
|                    | 79%         |      |
| Error              | 9,966       |      |
|                    | 12%         |      |
| STOP               | SETUP       |      |

- Easy to see
- Easy to navigate
- Quick to test

### Faster faultfinding

|                 |       |       |
|-----------------|-------|-------|
| Wiremap         | MyJob | 00:31 |
| MISWIRED        |       |       |
| Type: Cat5e UTP | 568A  |       |
| 1 1m            |       |       |
| 2 1m            |       |       |
| 3 2m            |       |       |
| 4 2m            |       |       |
| 5 2m            |       |       |
| 6 2m            |       |       |
| 7 1m            |       |       |
| 8 1m            |       |       |
| 5               |       |       |
| 1m              | FAULT |       |
| RUN             | SAVE  | SETUP |

- Clearly see cabling faults
- Know where they are
- Validate repairs

### PoE+ and IPv6

|                                  |       |       |
|----------------------------------|-------|-------|
| Ethernet                         | MyJob | 00:25 |
| 10 Mb/s-HD Auto Neg Off PoE+ 48v |       |       |
| IPv4- 169.254.1.0                |       |       |
| IPv6- 2001:777:0db8:2::1/64      |       |       |
| JOBS                             | TESTS |       |
| DETECT                           | PORTS | SETUP |

- Be prepared for any challenge
- Test and validate any networks
- Test and validate PoE+ resources



## **SignalTEK II**

Working in environments where cable and network qualification is necessary to confirm correct installation, SignalTEK II is a cost-effective way to test network links to performance standards including IEEE 802.3ab. SignalTEK II is designed to test copper and fibre cabling capable of supporting voice, video, data and CCTV applications over 10/100 Megabit or Gigabit Ethernet.

With multiple network troubleshooting features including wiremap by pin with distance to fault, cable tracing and verifying Ethernet connectivity, SignalTEK II is a highly versatile and cost effective handheld tool.

The rubber moulded housing is perfect for the cabling installer whose workplace requires a rugged and robust tool. When working in poorly lit areas the bright, backlit colour screen displays test results clearly.

User-exchangeable RJ45 inserts and intuitive screen icons ensure the installer maximises productivity in the working day. Completed jobs can be reported upon, using the internal memory and USB interface to export results.

Capable of multiple performance testing, SignalTEK II enables the IT or network administrator to operate, with confidence in the accuracy of the results, both rapidly and with minimal user training.

SignalTEK II performs active network testing through hubs and switches all the way to the server.

Not only does it detect and run load testing on PoE and PoE+, SignalTEK II is specifically capable of running full bi-directional Gigabit tests, providing time savings and assurance of network performance.

Incorporating IPv6 compatibility, SignalTEK II provides a future-proof investment for all who need a cable qualifier.

Providing multiple benefits to all users, SignalTEK II is a handheld cable and network qualifier designed to confirm correct installation of copper and fibre cabling capable of supporting voice, video, data and CCTV applications over 10/100 Megabit or Gigabit Ethernet.

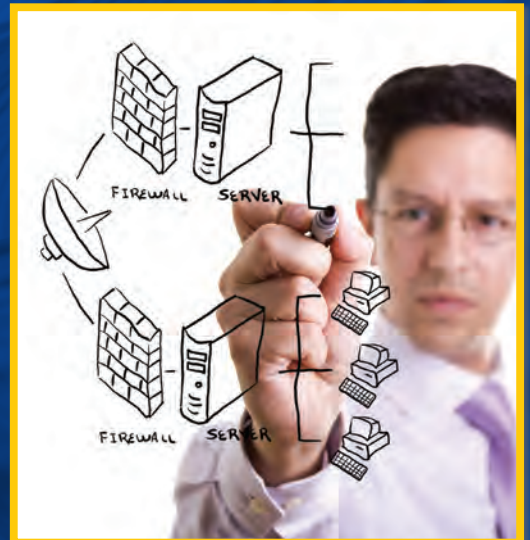
### **Cable installers**



### **IT admin/security, troubleshooters & consultants**



### **Systems integrators**





# SignalTEK II

## Specification Comparison

| Functions   | SignalTEK II | SignalTEK II FO |
|---|--------------|-----------------|
| Endpoint LAN testing over copper                    | ✓            | ✓               |
| IPv4  | ✓            | ✓               |
| IPv6  | ✓            | ✓               |
| Advanced wiremap including length                   | ✓            | ✓               |
| Wiremap for cross-over cables (copper)              | ✓            | ✓               |
| Wiremap for 2 pair copper cables                    | ✓            | ✓               |
| Wiremap for industrial cables                       | ✓            | ✓               |
| PoE/PoE+ detection                                  | ✓            | ✓               |
| PoE/PoE+ load current test                          | ✓            | ✓               |
| Tone generator                                      | ✓            | ✓               |
| Ping test   | ✓            | ✓               |
| Traceroute test                                     | ✓            | ✓               |
| Hub blink   | ✓            | ✓               |
| Choice of power sources                             | ✓            | ✓               |
| DHCP client   | ✓            | ✓               |
| 10/100/1000 Mb/s                                    | ✓            | ✓               |
| Network scan  | ✓            | ✓               |
| Results storage/export                              | ✓            | ✓               |
| Near-End and remote loopback units supplied         | ✓            | ✓               |
| Compatible with NavITEK II/LanXPLOER active remotes | ✓            | ✓               |
| Full Gigabit cable performance test                 | ✓            | ✓               |
| VoIP performance test through hubs and switches     | ✓            | ✓               |
| Web performance test through hubs and switches      | ✓            | ✓               |
| Video performance test through hubs and switches    | ✓            | ✓               |
| CCTV performance test through hubs and switches     | ✓            | ✓               |
| User-exchangeable RJ45 inserts                      | ✓            | ✓               |
| Backlit colour screen                               | ✓            | ✓               |
| Fibre performance test                              |              | ✓               |
| Optical power indication                            |              | ✓               |
| Endpoint LAN testing over fibre                     |              | ✓               |

For further information visit

**[idealnwd.co.uk](http://idealnwd.co.uk)**



# SignalTEK II

## Versions to suit all requirements

SignalTEK II is available in two models with specifications to meet all user needs



**SignalTEK II FO**

### Ordering Information

#### SignalTEK II - Operates on copper networks

| Part No. | Kit Contents   |
|----------|--|
| R156000  | <b>SignalTEK II</b><br>1 x Near-End unit (copper only), 1 x Remote unit (copper only), 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case |

#### SignalTEK II FO - Operates on both copper and fibre optic networks

| Part No. | Kit Contents  |
|----------|---|
| R156001  | <b>SignalTEK II FO</b><br>1 x Near-End unit (copper and fibre), 1 x Remote unit (copper and fibre), 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case |

### Optional Accessories

| Part No.  | Description  |
|-----------|--|
| 150054    | 1 x Active remote No. 1  |
| 150050    | 1 x Active remote set No. 2 – 12   |
| 151053    | 1 x NiMH power module  |
| 150055    | 2 x Patch cables - 30cm, Cat. 5e STP   |
| 151051    | 1 x Power supply with EU/UK/US adaptor   |
| 151052    | 1 x Alkaline battery module  |
| 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 adaptor   |
| MGKLX2    | 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 adaptor |
| MGKZX3    | 1 x 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 adaptor |
| 62-164    | 1 x IDEAL amplifier probe  |
| 33-963-10 | 1 x Fibre cleaning pen for SC, ST and FC adaptor   |
| 33-963-11 | 1 x Fibre cleaning pen for LC and MU adaptor   |
| 150056    | 1 x Optical fibre multimode 2m duplex cable with LC-LC connectors  |
| 150057    | 1 x Optical fibre singlemode 2m duplex cable with LC-LC connectors   |
| 150059    | 1 x Active remote set No. 2 to No. 6   |
| 156050    | 1 x Carry case   |
| 150058    | 1 x RJ45 insert extraction tool, 10 x Lifejack RJ45 inserts  |

**Dealer Stamp**

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