Data Cable & Ethernet
Testers & Certifiers
The new VDV II Series are easy to use cable testers that check the integrity of copper cables commonly found in domestic, commercial or industrial voice, data or video installations, including telephone wiring, data network and video/security cabling.

Employing state-of-the-art technology, VDV II offers functionality not previously available in a wiremapper.

The advanced wiremap engine accurately displays complex wiring faults instantaneously while TDR (Time Domain Reflectometry) aids troubleshooting and improves on-site productivity.

### VDV II

**FEATURES & BENEFITS**

- RJ45, RJ11/RJ12 and coax ports
- TDR technology pinpoints cable faults eliminating unnecessary guess work
- PoE service detection with voltage information
- Ethernet speed detection up to 1000 Mbps
- Ability to identify and trace cables with a compatible inductive tone probe (optional)
- Support for all common LAN cables (TIA 568A/B wiring schemes)
- Large backlit screen provides instantaneous, easy to read test results
- Identifies analog (PBX) and digital (ISDN) telephone services
- Displays network rate and duplex information
- Ability to identify a cable on an active network by blinking the switch’s link LED
- Protected from high voltage damage
- Fast Autotest provides proof of 1000Base-T network performance in seconds
- USB port enables rapid transfer of PDF and CSV (Excel) test results to flash drive
- Supports shielded and unshielded twisted pair cable including Cat 5e, Cat 6, Cat 6A and Cat 7
- Stores up to 5,000 tests in separate folders to accommodate even the largest jobs
- Identify and trace cables with a compatible amplifier probe

### SignalTEK® CT

SignalTEK CT allows cable installers to generate PDF test reports that prove installed links provide error-free performance at Gigabit speeds using real Ethernet data for absolute certainty.

Data transmission testing is a cost-effective way to prove LAN cabling is installed correctly and is capable of supporting Ethernet applications. By proving real world performance, SignalTEK CT confirms a professional job providing peace of mind and minimizing call-backs.

SignalTEK CT also gives network owners the assurance that installed cabling will support bandwidth hungry services like VoIP, IP CCTV and video streaming.

Use the free IDEAL AnyWARE™ app to view and send data/cable/network test reports to colleagues and clients anywhere.

### SignalTEK CT - Data Cable Transmission Tester

- Includes 1 x display, 1 x remote, 2 x NiMH batteries, 2 x patch cables - 30cm, Cat 5e STP, 2 x power supply with EU/UK/US adaptors, 1 x user manual, 1 x carry case
- Part No. Kit Contents
  - R156004

### SignalTEK CT - Recommended Accessories

- 150528 10 replacement RJ45 inserts with extraction tool
- 151052 One alkaline battery module to allow operation with 4 AA batteries
- 62-164 1 x IDEAL amplifier probe

Additional accessories listed on page 12.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>R156000</td>
<td>VDV II –Cox, 6 pin (RJ/11/12), 8 pin (RJ45) connectors for copper cable testing, wiremap for miswires, split pairs, shorts and opens, analog tone generator, voltage protection, shielded cable testing, single screen results. Includes remote #1 and #1 battery.</td>
</tr>
<tr>
<td>R156002</td>
<td>VDV II Plus - Includes everything in VDV II as well as large 2.8” screen, back light, hub links, cable length, distance to open, carry case &amp; cable kit (2 x 15in alligator clips, 2 x 6in RJ45 shielded patch cords, 2 x 4in RJ11/RJ12 patch cords, 1 x 1m F/06F patch cord, 1 x RJ45 bare interface 1 x BNC female to F male adapter 1 x RCA female to F female adapter), 1 x wiring reference card.</td>
</tr>
<tr>
<td>R156003</td>
<td>VDV II Pro - Includes everything in VDV II Plus as well as distance to open / short (TDR), PoE detection with voltage information, digital/analog phones and SCID detection, hub/switch port blink, Ethernet services detection with connection speed (10/100/1000 Mbps) and duplex information.</td>
</tr>
<tr>
<td>62-164</td>
<td>1 x IDEAL amplifier probe</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Recommended Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>150528</td>
<td>10 replacement RJ45 inserts with extraction tool</td>
</tr>
<tr>
<td>151052</td>
<td>One alkaline battery module to allow operation with 4 AA batteries</td>
</tr>
<tr>
<td>62-164</td>
<td>1 x IDEAL amplifier probe</td>
</tr>
</tbody>
</table>

* Separate numbered remotes allow multiple cables to be tested more quickly.
**SignalTEK® NT**

SignalTEK NT tests the performance of voice, data, video and CCTV applications on 10/100/1000 Mb/s Ethernet networks issuing a report to prove installed data cables or networks can carry Ethernet traffic at full speed without packet errors.

SignalTEK NT utilizes a method known as transmission testing to prove the performance of a network by sending real Ethernet data frames through the cabling and/or network devices and comparing the received data with the transmitted data to determine the error rate. This method stress tests the network to generate reports of real world 1000Base-T performance to the IEEE 802.3ab gigabit Ethernet standard.

In addition to data transmission testing, when connected to an active network, SignalTEK NT also uses CPD and LLDP to display the MAC address. SignalTEK NT supports IDEAL AnyWARE™, a new mobile app that wirelessly connects SignalTEK with the Internet and a smartphone.

FEATURES & BENEFITS

- Gigabit performance testing on passive cabling and active networks
- Tests for compliance with the IEEE 802.3ab standard and generates PASS/FAIL reports in PDF & CSV/Excel formats
- Simulates VoIP/CCTV/Video/ IP video network traffic
- Displays MAC address and port ID of connected switch with CPD/LLDP
- Detects presence of PoE and measures voltage on each pair
- Advanced PoE/PoE+ load testing ensures the network can deliver at least 8/16 watts to PoE/PoE+ devices
- Full Gigabit bi-directional load testing through hubs and switches
- RJ45 and SFP fiber optic ports
- Simulate network traffic generated by new IP devices to confirm network capacity before adding new devices like VoIP or CCTV
- Verify connection speed up to 1000 Mb/s
- Ping and trace route tests verify LAN connectivity and Internet access on IPv4 and IPv6 networks
- Locate wiremap faults more quickly and accurately by testing every pin and pair; detecting split pairs and identifying the distance to fault
- Field replaceable RJ45 contacts eliminate downtime from worn or damaged connectors
- Advanced cable testing to meet network coding installations meet performance standards from Cat 3 through Cat 7.

**LanTEK® III**

The LanTEK III is an easy to use cable certifier that ensures network cabling installations meet performance standards from Cat 3 through Cat 7. Enhanced troubleshooting functions pinpoint the distance to NEXT and Return Loss issues to quickly locate hidden or faulty connections.

With the free IDEAL AnyWARE app, technicians at the jobsite can send test data from their phones to the office, to save time and travel costs.

FEATURES & BENEFITS

- Ultra-tough permanent link (PL) adapters withstand bends, kinks and other abuse without affecting performance.
- Locate hidden connections, splices and cable faults using Time Domain Return Loss (TDRL) and Time Domain Crosstalk (TDX).
- Reduce down time and lower maintenance costs with field replaceable RJ45 contacts.
- New data management software creates powerful client reports quickly and easily from multiple testers using one PC application.
- Wireless transfer of test results to mobile phones and tablets

**FiberTEK® III**

FiberTEK III provides fast and simple Tier1 certification of single-mode and multimode fiber optic cabling including support for encircled flux testing. The simple graphical interface walks the user through the calibration and testing process reducing mistakes and ensuring tests comply with the latest TIA standards including the new multimode encircled flux.

To pinpoint fiber cabling faults every FiberTEK III adapter includes a built-in visible light source to help you visually pinpoint faults and locate fiber ports.

**FIBER Certification**

- Tier 1 certification with attenuation/insertion loss (dB) measurements of 2 fibers.
- Measures length of each fiber
- Encircled flux compliant when used with EF launch cords
- Includes SC, ST and FC adapters

**COPPER Certification**

- Certification from 10 Mb/s - 1000 GBa for TIA/ISO/IEEE standards
- Reference grade test cords
- Built-in red laser visual fault finder at both ends of tester
- Active fiber detection to quickly identify polarity

**Features & Benefits**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>R164005</td>
<td>FiberTEK III Multimode (850/1300nm) kit SC test cords</td>
</tr>
<tr>
<td>R164006</td>
<td>FiberTEK III Single-mode (1300/1550nm) kit SC test cords</td>
</tr>
<tr>
<td>R164007</td>
<td>FiberTEK III Combination MM/SM kit</td>
</tr>
<tr>
<td>R164008</td>
<td>Multimode LC adapter set, 2 x transmit and 2 x receive</td>
</tr>
<tr>
<td>R164002</td>
<td>Single-mode LC adapter set, 2 x transmit and 2 x receive</td>
</tr>
<tr>
<td>R164050</td>
<td>MM encircled flux launch cord (SC-SC) Requires 2 with new tester</td>
</tr>
<tr>
<td>R164051</td>
<td>MM encircled flux launch cord (LC-SC) Requires 2 with new tester</td>
</tr>
</tbody>
</table>
VFF5

The Visual Fault Finder is a visible laser light source used to verify continuity, test and find breaks in fiber links, locate pinched fiber strands in enclosures, or anywhere fiber optic cables are terminated and subject to mechanical damage. The VFF5 is useful to a distance of approximately 5km (3.1mi) into multimode and single-mode fiber. Use it as a front-line troubleshooting tool, or in conjunction with an OTDR to pinpoint faults. Breaks will be seen as a glowing or blinking red light area.

The VFF5 can also be used when terminating mechanical splices or crimp connectors where leaking light is an indicator of a poor fiber cleave or other misalignment.

Features & Benefits
- Visual monitoring of fiber cable continuity
- Pinpoints breaks and crimps through light loss through the buffer
- Detect faulty splices
- Quick on-site checks of pre-terminated fiber cable assemblies
- Continuous and flashing signal modes
- Useful for single-mode and multimode fibers up to 5km (3 miles) length
- Non-roll design rugged metal housing protected by Santoprene® (rubber) non-slip sleeve

FiberMASTER

FiberMASTER is a simple and easy to use tester for fast certification and troubleshooting of fiber optic cabling systems, providing optical power loss (dB) measurements meeting Tier 1 certification requirements.

FiberMASTER measures power (dBm/mW) received from any device which aids troubleshooting equipment that may not be operating properly. The dB calibration feature allows the operator to set a reference level to the light source and directly read the loss of fiber optic links for instant certification testing. The unique form factor allows the light source to be docked neatly within the power meter making the kit compact for easy storage while still allowing full operation.

Features & Benefits
- Quickly measures cabling loss (dB) with calibration feature
- Measures fiber optic power for troubleshooting
- Power meter: universal 2.5mm slip-fit/FC connectors
- Light source: interchangeable SC/ST/FC connectors
- Multimode and single-mode options
- Power meter features: 850, 1300, 1310, 1490 and 1550 nm measurements
- Absolute power measurement in dBm and mW, power loss display in dB
- Auto Power Off
- Multimode kit: 850/1300 nm light source
- Multimode/single-mode kit: 850/1300/1310/1550 nm light source
- Light source docks in the bottom of the power meter for easy storage
- Operates on AA batteries, 3 each for power meter and light source
- Low battery indication
- Includes padded carry pouch
SecuriTEST® Pro

SecuriTEST® Pro is the most versatile all-in-one installation and troubleshooting tool for the CCTV professional. It brings CCTV camera testing to a higher level with integrated IRE testing of sync and video levels to ensure the best possible video quality.

CCTV installers often need to carry a variety of testing tools to complete their work. SecuriTEST Pro combines eight essential tools in one easy-to-carry package: a CCTV video monitor, IRE signal level meter, PTZ camera controller, digital multi-meter, UTP wire map cable tester, video test pattern generator, PTZ protocol analyzer and Camera Programmer in a single compact package.

FEATURES & BENEFITS

- Analog CCTV installation and troubleshooting tool
- Compatible with 20+ PTZ protocols
- Test, aim, focus and program cameras when working alone. Save time by not having to walk back to the control center to verify operation of each camera.
- Sharp, bright 2.5in (6.3cm) color LCD screen with on-screen displays for PTZ control/diagnostics and DMM readouts.
- PTZ protocol analyzer

LanXPLORER Pro

LanXPLORER Pro is an In-line tester for diagnosing problems in active and passive networks. Capabilities include troubleshooting for Ethernet connectivity and identifying faults in copper cables. Networks can be accessed through copper, fiber and Wi-Fi interfaces.

LanXPLORER Pro includes advanced PoE and PoE+ (802.3at) detection capabilities to measure power available to devices at the end of long runs when troubleshooting. Example, know when only 11 watts of power are available to a device that requires 13 watts. The In-line mode also measures the power consumption of PoE and PoE+ devices in real-time displaying the wattage drawn by the powered device.

LanXPLORER Pro enables monitoring of VoIP calls to measure Quality of Service (QoS) statistics including Real Time Transport Protocol (RTP) and jitter. When placed between any two points in a network, the MAC and IP addresses and name of the top 10 bandwidth consuming devices is displayed to identify sources of network slow-downs. It also displays the external IP address (website) that devices inside the LAN are connected to allowing administrators to identify the source of the traffic, ex. video or music streaming.

FEATURES & BENEFITS

- In-Line feature (RJ45) allows monitoring of network traffic between any two points in the network to diagnose Ethernet issues that cannot be detected by software tools running on a PC or managed switch
- Identifies top 10 bandwidth consuming devices (both transmitting and receiving) on the network to help troubleshooting
- Monitor total network bandwidth throughput
- Identify band width consumed per device
- Voice over IP (VoIP) QoS testing
- Identify MAC and IP address of all devices on network
- Identify sources of network congestion
- Identify new, missing or rogue network devices
- Troubleshoot PoE/PoE+ devices
- Determine cause of VoIP quality issues
- Locate Wi-Fi dead spots
- Determine whether source of network connectivity issue is the LAN or PC/Network device
- Cable installation testing – i.e. wiremap/length/TDR
- Port profiling – check ID and services provided at each port of a switch
- Network auditing – i.e. document devices connected to LAN

### FEATURES & BENEFITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>35-092</td>
<td>SecuriTEST® Pro – CCTV tester with carrying pouch, lithium battery pack, 120/240V power adapter/charger, UTP wire map test remote, BNC cord and user manual</td>
</tr>
<tr>
<td>35-092-1P</td>
<td>Replacement lithium polymer battery pack</td>
</tr>
</tbody>
</table>

**Part No.** | Kit Contents
---|---
RS10001 | LanXPLORER Pro – PREMIUM package includes 1 x LanXPLORER Pro test unit, 1 x Remote unit #1, 1 x High Sensitivity WiFi Antenna, 1 x IDEAL amplifier probe 62-164, 1 x RJ45 insert extraction tool plus 10 x replacement RJ45 inserts. Additional content: 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 12m/35ft RJ45 cable, 1 x Quick reference guide (English), 1 x User manual C5, 1 x Carrying case. Additional accessories listed on page 12.
NaviTEK® NT

NaviTEK NT is a versatile network technician’s tester for troubleshooting and maintenance of active and passive networks across copper and fiber, helping to pinpoint and solve networking issues quickly. Decreases device downtime by allowing field technicians to discover the root cause of network connectivity issues such as incorrect IP configuration, rouge network services and network bandwidth issues.

FEATURES & BENEFITS

• Detailed network statistics including Protocol, Frame, IP analysis and switch speed 10/100/1000 Mb/s information simplify device configuration and aid troubleshooting
• Determines speed capability of PC and other Network Devices
• Identifies switch name, MAC address and port number with CDP/LLDP/EDP to simplify troubleshooting
• Configurable by DHCP or static IP with VLAN capability
• IPv4 and IPv6 compatible
• PBX/SDN/analog (POTS) - displays type of service and voltage/polarity on each pair
• Network/internet connectivity with Ping/Traceroute to IP address and URL
• Network DNS by resolving URL to IP address
• Ntain counts number of devices on subnet
• Network connectivity/DHCP/CDP/LLDP
• PoE 802.3af service detection
• Test storage and reporting
• Transfers report to phone/tablet with free IDEAL AnyWARE app.
• Wi-Fi adapter included with Plus/Pro models
• Cable tracing/distance to fault (TDR)

Tone & Probe Kit

Professional quality Amplifier Probe designed to identify and trace wires or cables within a group without damaging the insulation allowing for pin point identification even in the most congested cable bundles. one generator injects tracing signal onto any type of wire for cable tracing. Troubleshoot wire and telephone problems with integrated continuity testing and analog telephone polarity indicator.

FEATURES & BENEFITS

• Three selectable tones

IDEAL AnyWARE™

IDEAL AnyWARE is a free app for iOS and Android devices that wirelessly connects to AnyWARE compatible IDEAL Networks testers allowing users to transfer PDF & CSV test reports or individual test results to the mobile device. Once on the device the reports can be sent to colleagues via email or cloud based file sharing services.

FEATURES & BENEFITS

• Instantly send data from the job site to project managers and customers

Proof of Performance
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Tester Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIFI-ADPT</td>
<td>USB Wi-Fi adapter allows tester to connect to IDEAL AnyWARE iOS and Android mobile app</td>
<td>All except standard NaviTEK model R153001</td>
</tr>
<tr>
<td>MGKSX1</td>
<td>1000BASE-SX multimode fiber optic option - Includes one (1) multimode 850nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex coupler. <strong>Order 2 for use with SignalTEK NT/FO.</strong></td>
<td>SignalTEK NT/FO NaviTEK NT Pro model LanXPLORER Pro</td>
</tr>
<tr>
<td>MGKLX2</td>
<td>1000BASE-LX multimode/single-mode fiber optic option - Includes one (1) multimode/single-mode 1310nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex single-mode cables and SC/SC duplex coupler. <strong>Order 2 for use with SignalTEK NT/FO.</strong></td>
<td>SignalTEK NT/FO NaviTEK NT Pro model LanXPLORER Pro</td>
</tr>
<tr>
<td>MGKZX3</td>
<td>1000BASE-ZX single-mode fiber optic option - Includes one (1) single-mode 1550nm SFP (Small Form factor Pluggable) transceiver, transceiver, LC/LC and LC/SC duplex single-mode cables and SC/SC duplex coupler. <strong>Order 2 for use with SignalTEK NT/FO.</strong></td>
<td>SignalTEK NT/FO NaviTEK NT Pro model LanXPLORER Pro</td>
</tr>
<tr>
<td>150058</td>
<td>RJ45 connector insert kit - Replace worn or damaged connectors. Eliminates need to send testers in for repair of common wear item. Includes 10 replacement RJ45 inserts, 1 x RJ45 removal tool.</td>
<td>SignalTEK - all models NaviTEK NT - all models LanXPLORER</td>
</tr>
<tr>
<td>150054</td>
<td>Active wiremap remote ID# 1 - Advanced 2-sided wiremap testing, P/F LED indicator</td>
<td>SignalTEK - all models NaviTEK NT - all models LanXPLORER</td>
</tr>
<tr>
<td>150059</td>
<td>Active wiremap remote kit ID# 2-6 - Advanced 2-sided wiremap testing, P/F LED indicator</td>
<td>SignalTEK - all models NaviTEK NT - all models LanXPLORER</td>
</tr>
<tr>
<td>150050</td>
<td>Active wiremap remote kit ID# 2-12 - Advanced 2-sided wiremap testing, P/F LED indicator</td>
<td>SignalTEK - all models NaviTEK NT - all models LanXPLORER</td>
</tr>
<tr>
<td>151051</td>
<td>Power adapter/battery charger - with US/UK/Euro plugs. 120-240V, 50/60Hz (each)</td>
<td>SignalTEK - all models NaviTEK NT - all models LanXPLORER</td>
</tr>
<tr>
<td>151052</td>
<td>AA Battery module - holds 4 x AA alkaline non-rechargeable batteries, each</td>
<td>SignalTEK - all models NaviTEK NT - all models LanXPLORER</td>
</tr>
<tr>
<td>151053</td>
<td>Rechargeable NiMH battery pack - with charging input port, each</td>
<td>SignalTEK - all models NaviTEK NT - all models LanXPLORER</td>
</tr>
<tr>
<td>150062</td>
<td>AA Battery module - holds 4 x AA alkaline non-rechargeable batteries, each</td>
<td>LanXPLORER</td>
</tr>
<tr>
<td>150053</td>
<td>Rechargeable NiMH battery pack - Replacement battery pack with plug, each</td>
<td>LanXPLORER</td>
</tr>
<tr>
<td>VDV II Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td>158050</td>
<td>RJ45 Wiremap remote kit ID# 1-12 (provides ID, wiremap test results and length measurement)</td>
<td>VDV II - all models</td>
</tr>
<tr>
<td>158051</td>
<td>RJ45 Identifier kit ID# 1-25 (provides ID and length only)</td>
<td>VDV II - all models</td>
</tr>
<tr>
<td>158053</td>
<td>Coax F connector remote kit ID# 1-12 (ID, wiremap result, length)</td>
<td>VDV II - all models</td>
</tr>
<tr>
<td>LanTEK III Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LANTEK-III-Y</td>
<td>CarePlan for LanTEK III - includes annual calibration, free repair with loaner tester for repairs</td>
<td>LanTEK III - all models</td>
</tr>
<tr>
<td>LANTEK-III-2Y</td>
<td>CarePlan for LanTEK III - Extends total warranty to 2 years, includes annual calibration, free repair with loaner tester for repairs</td>
<td>LanTEK III - all models</td>
</tr>
<tr>
<td>LANTEK-III-3Y</td>
<td>CarePlan for LanTEK III - Extends total warranty to 3 years, includes annual calibration, free repair with loaner tester for repairs</td>
<td>LanTEK III - all models</td>
</tr>
<tr>
<td>LANTEK10GBK1T</td>
<td>Alien crosstalk kit to test Cat 6 and Cat 6A cabling for 10 Gigabit performance</td>
<td>LanTEK III - all models</td>
</tr>
<tr>
<td>R160050</td>
<td>Industrial Ethernet testing kit with M-12 adapters</td>
<td>LanTEK III - all models</td>
</tr>
<tr>
<td>R161054</td>
<td>Siemon TERA adapter for Cat 7 testing. Each, order 2 with new tester.</td>
<td>LanTEK III 1000</td>
</tr>
<tr>
<td>R161057</td>
<td>Coax adapter with BNC connectors. Each, order 2 with new tester.</td>
<td>LanTEK III - all models</td>
</tr>
<tr>
<td>R161058</td>
<td>Li-Ion battery pack, each</td>
<td>LanTEK III - all models</td>
</tr>
<tr>
<td>R161059</td>
<td>LanTEK III power supply/charger with US/UK/Euro plugs - 110-240V, 50/60Hz</td>
<td>FiberTEK III MM or SM</td>
</tr>
<tr>
<td>R164060</td>
<td>FiberTEK III adapter set, 1 each SC, SC and FC</td>
<td>FiberTEK III MM or SM</td>
</tr>
<tr>
<td>R161059</td>
<td>LanTEK II power supply/charger with US/UK/Euro plugs - 110-240V, 50/60Hz</td>
<td>FiberTEK III - all models</td>
</tr>
<tr>
<td>WIFI-ADPT</td>
<td>Replacement USB Wi-Fi adapter to connect with IDEAL AnyWARE iOS and Android mobile app</td>
<td>LanTEK III - all models</td>
</tr>
</tbody>
</table>