



SIGNALTEK™-FO Multimedia Gigabit Certifier



- **Gigabit Certification and Active Network Diagnostics** – Certify passive cabling to support Gigabit Ethernet and perform active network diagnostics such as DHCP, Ping and ARP (address resolution protocol) tests.
- **Multimedia Gigabit Certification to TIA & IEEE Standards (Certify copper, multi-mode and single mode fiber)** – Certify to TIA 568-B interconnect and IEEE 802.3ab Gigabit performance standards
- **BERT and Optical Attenuation Measurements** – Perform Bit Error Rate Testing and decibel (dB) loss measurements of optical links.
- **Dual Wavelength Capability** – available in both 850nm and 1300nm wavelengths to support virtually all LAN and campus fiber applications.
- **Small Form factor Pluggable (SFP) modules** are compact, light-weight and field changeable.
- **Storage and Reporting for Thousands of Reports** – Store and print Certification reports for copper and fiber jobs using internal memory or USB “thumb-drives”.

The World's First Fiber and Copper Gigabit Certifier

SIGNALTEK-FO is the first Certification tester that offers both copper and fiber optic testing on passive and active network links; and SIGNALTEK-FO does it for less than the price of an Optical Test Set alone.



IDEAL DataComm

- CUT
- STRIP
- TERMINATE
- TEST
- CERTIFY

SIGNALTEK™-FO

Capabilities beyond the typical Gigabit Ethernet Certifier

SIGNALTEK-FO allows complete testing and documentation of cabling links to support Gigabit Ethernet and provides comprehensive diagnostic tests on active networks for additional diagnostics or troubleshooting. Unlike other Ethernet Certifiers, SIGNALTEK-FO can perform these task on copper & fiber networks.

Traditional power meter/light source kits only measure the attenuation of fiber optic links. As Gigabit Ethernet is becoming the standard for backbone and zone fiber optic cabling, attenuation tests alone may not be enough to guarantee error-free performance.

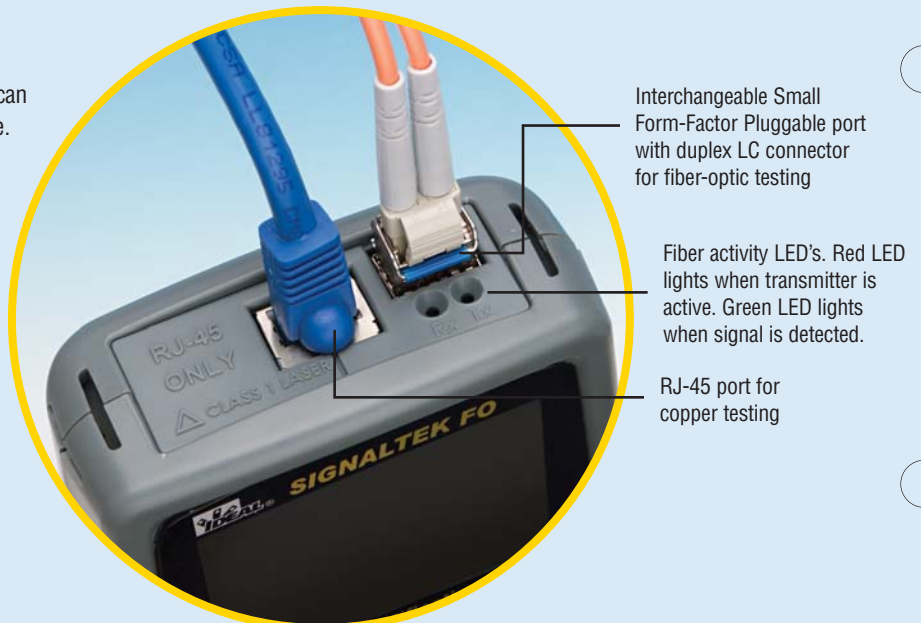
SIGNALTEK-FO's Bit Error Rate testing, adds assurance that fiber optic links can actually support high-speed data in accordance with IEEE 802.3ab standards.

- Multimode and single mode capability
- Available in 850nm and 1300nm wavelength configurations
- Measure cable attenuation with a dynamic range of up to 20dB
- Guarantee link operation at 1Gbps within IEEE error tolerances



Specifications

In addition to cable performance certification, SIGNALTEK™ can be configured to run for several minutes or hours at a time. While stress testing critical network links, SIGNALTEK™ transmits hundreds of Gigabits of information across the network while looking for dropped packets. This monitoring mode allows SIGNALTEK™ to be used to isolate intermittent network problems that are difficult to detect. Adopting the latest generation of Gigabit Ethernet technology, IDEAL's innovation brings the best performance to this new class of affordable testers.



Specifications (continued)

■ Tests Available

- Wiremap - UTP/STP per TIA 568-B standard
- Bit Error Rate Test (BERT) - per IEEE 802.3ab standard with default and user selectable rates
- Standard, VoIP, IP Video and Web BERT selections
- Link Speed (10/100/1000 Mbps)
- Link Status - Full/Half Duplex, straight/cross-over
- Length Measurement (copper only)
- Decibel Loss (fiber only)
- DHCP Service Test (fiber & copper)
- Ping Test with IP and URL entry (copper & fiber)
- ARP Device Discovery (copper & fiber)

■ Ports/Connections

- USB A/B, DC power input
- Shielded RJ-45 Port :Supports 10/100/1000Mbps Ethernet connections
- Small Form-factor Pluggable (SFP): Supports SFP modules sourced through IDEAL Industries in 850nm and 1300nm wavelengths, 1000Mbps Ethernet

■ SFP-850 – 850nm Module

- Class 1 Laser EN60825-1
- Compatible fiber types: 50/125 μ m or 62.5/125 μ m graded index multimode fiber
- Power Output (dBm): -9.5min, -3max
- Receiver Power Range (dBm): 0 to -20
- Max Link Length: 550m (1800ft) on 50/125 μ m fiber; 300m (985ft) on 62.5/125 μ m fiber
- Operating Temperature: -10 to 85°C (14 to 185°F), 85%RH non condensing

■ SFP-13X0 – 1300nm Module

- Class 1 Laser EN60825-1
- Compatible fiber types: 50/125 μ m or 62.5/125 μ m graded index multimode fiber and 9/125mm step index single mode fiber
- Power Output (dBm): -9min, -2.5max
- Receiver Power Range (dBm): 0 to -22
- Max Link Length: 550m (1800ft) on 50/125 μ m fiber; 300m (985ft) on 62.5/125 μ m fiber; 10km (6.2mi) on 9/125 μ m fiber
- Operating Temperature: -10 to 85°C (14 to 185°F), 85%RH non condensing

■ Length Measurement

- RJ-45 Port: TDR length measurement of 1-4 pair cables to 140m/460ft
- SFP Port: No length measurement of fiber optic cables

■ Bert Error Rate Measurements

- Copper: 10/100/1000Mbps. Error rates tested to IEEE 802.3ab standard
- Fiber: 1000Mbps. Error rates tested to IEEE 802.3ab standard.

■ Battery Life: Standard AA Alkaline Batteries

- Copper Testing: Approx 15 hours @ 22 tests per hour (45s Autotest)
- Fiber Testing: Recommend use of AC adapters when testing fiber



SIGNALTEK™-FO Multimedia Certification Tester Kit

SIGNALTEK-FO Included Accessories

- 1 SIGNALTEK fiber ready near-end and 1 remote-end handset
- Carrying case
- Copper cable accessory kit with interfaces to RJ45, RJ11, Coax F-Type cables, and alligator clips
- Fiber optic cable accessory kit: 2 duplex LC-SC 50/125 μ m (2m/7ft) cables, 2 duplex LC-SC 62.5/125 μ m (2m/7ft) cables, 1 duplex SC-SC adapter.
- 8 AA alkaline batteries
- 2 AC power adapters with international plugs
- USB interface cable
- 1 CD-ROM User Manual
- 1 Training DVD

DESCRIPTION	CAT NUMBER (US/INT'L)
SIGNALTEK-FO W/ 2 850nm MODULES	33-981/33-984
SIGNALTEK-FO W/ 2 13X0nm MODULES	33-982/33-985
SIGNALTEK-FO W/ 2 850nm & 2 13X0nm MODULES	33-983/33-986
SIGNALTEK-FO (FIBER READY-NO MODULES)	33-987/33-988
PAIR OF 850nm SFP MODULES	SFP-850
PAIR OF 13X0nm SFP MODULES	SFP-13X0



SIGNALTEK™ Standard Kit

Catalog No. 33-974

- 1 SIGNALTEK™ near-end and 1 remote-end handset
- Carrying case
- Copper cable accessory kit with interfaces to RJ-45, RJ11, Coax F-Type, and alligator clips.
- 8 AA alkaline batteries
- USB cable
- 2 AC power adapters with international plugs
- CD-ROM User Manual
- Training DVD
- Can be upgraded to fiber optic version by IDEAL service center

DESCRIPTION	CAT NUMBER (US/INT'L)
SIGNALTEK™ Copper Performance Tester	33-974/33-975

SIGNALTEK™ Cable Certification Tester Kit

Save time and money troubleshooting fiber

The Visual Fault Finder is a light source used to locate breaks, poor mechanical splices and damaged connectors in fiber optic cables.

It's perfect to verify continuity, test and find breaks in fiber links, locate pinched fiber strands in termination cabinets, or anywhere fiber optic cables are terminated and subject to mechanical damage.



VFF5 Visual Fault Finder

Laser light source used to locate breaks, faulty splices and crimps

- **NEW** 2.5mm Universal Adapter for all ST®, SC and FC connectors
- Useful over a distance of 5km (3miles)
- Two AA batteries provide over 30 hours of continuous use
- Slim, pocket-sized tool in rugged metal housing
- Nylon carrying case with belt loop included



DESCRIPTION	CAT NUMBER
Visual Fault Finder	VFF5

Note: ST® is a registered trademark of AT&T.

Fiber Inspection Microscope



- 100X magnification for viewing multimode connectors
- Includes 2.5mm connector "Universal Adapter" for FC, ST® and SC style connectors
- Oblique illumination provides excellent view of ferrule cleanliness and core condition
- Rugged, rubberized metal housing, precision glass optics and a built-in laser safety filter
- White LED illumination delivers 100,000 hours bulb life
- Soft padded carrying case included
- Battery life 48+ hours
- Compact size 7.5 in. x 1.96 in. x 1.18 in.
- Optional 200X Conversion Eyepiece threads on for viewing finish/polish of singlemode connectors

DESCRIPTION	CAT NUMBER
Fiber Inspection Microscope	45-332
1.25mm Connector Adapter	45-334
MTRJ-Style Connector Adapter	45-335
200X Conversion Eyepiece for Singlemode Connectors	45-336

Note: ST® is a registered trademark of AT&T.

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