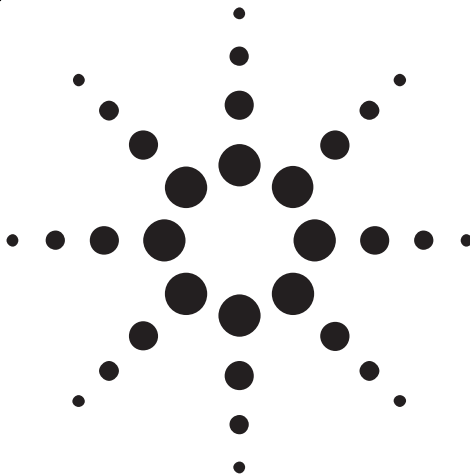# Agilent N2640A WireScope™ Pro

## Fastest LAN Cabling Certification and Practical Alien Crosstalk Measurement

### Features and Benefits

- Accelerated service deployment with the industry's fastest, automated LAN cabling and fiber certification.
- Unique, cost-effective Alien Crosstalk measurement technique to test cables to full 10 Gbit/s compliance.
- Future proof 1 GHz frequency range exceeding Augmented Cat 6 and Cat 7 for those who need to stand in for the quality of their leading edge links.
- DualRemote™ Pro unit operates fully unattended for work-flow optimized dual-ended testing.
- No fiber swapping. Dual-wavelength multimode and single mode Fiber SmartProbes perform truly bidirectional measurements.
- Truly field portable with extreme battery life, Color LCD and easy touch screen user interface.

### WireScope™ Pro – An Expandable Platform

Providing the fastest Category 6 cable and fiber certification on the market, the WireScope™ Pro is designed to meet present and future cabling standards. WireScope™ Pro supports cable certification to TIA Categories 3 to 6, Augmented Category 6 and Category 7 limits, and ISO Classes C through F. The WireScope™ Pro provides investment protection because it grows with its users' needs, offering a lower cost Category 6 product and supporting upgrades later as needed.

### Unique Alien Crosstalk Test Method

In combination with Agilent's newly developed Alien Crosstalk (AXTalk) Stimulators, the new SwiftAXT method implemented in the WireScope™ Pro secures critical cable installations and upgrades. It employs a new, extremely fast and cost-efficient field test methodology for AXTalk, based on real life conditions.

### Faster Measurements and Optimized Workflow

Once connected, the DualRemote™ Pro unit operates entirely remote controlled. User interactions, including restarting running tests, happen on the near end only. Re-designed Dual-wavelength Fiber SmartProbes eliminate the need to swap fibers for bidirectional testing and calibration, boosting the test throughput and accuracy.

### Future Proof Architecture

The Agilent WireScope™ Pro exceeds TIA Level IV Accuracy specifications, with compliance certified by ETL. Its 1 GHz of measurement frequency range covers today's fastest Ethernet standards and is ready for next generation cables.

WireScope™ Pro and DualRemote™ Pro can be remote controlled via any web browser for troubleshooting, monitoring, and reporting from anywhere in the network, eliminating costly dispatches.

**Agilent Technologies**

**User Friendliness Taken Seriously**
A bright color 6″ touch-screen simplifies navigation through easy-to-read menus and shows comprehensive test results. A high capacity battery allows for a full workday of continuous operation. Large internal memory and support for USB Flash Drive expand storage capacity, easing the transfer of test data and settings. The included ScopeData Pro software allows for professional quality graphical test reports.

Training times are reduced with the consistent user interface, built in help library and internal user manual. To reduce the risk of inadvertently testing to the wrong limits, a vendor managed database of fiber and cable parameters is provided. All settings can be pre-defined on a PC and downloaded to one or many instruments easily.

# WireScope™ Pro Technical Specifications

**Test Parameters**
• Supported frequency range:
  1 MHz to 1000 MHz
• TIA Level IV accuracy

**Supported Tests**
• Attenuation (Insertion Loss)
• Near End Crosstalk (NEXT) in pair to pair and/or PowerSum format
• Equal Level Far End Crosstalk (ELFEXT)
• Return Loss and Loop Resistance
• Ambient noise versus frequency
• Wiremap
• Cable length, Total propagation delay and delay skew between pairs
• PSANEXT, PSAELFEXT

**Test Standards**
• TIA/EIA-606-A and TIA/EIA-568-B Category 3 through 7
• ISO/IEC 11801, EN 50173 and Australia/New Zealand Classes C, D, E and F
• UTP, STP, and SCTP cabling
• IEEE 802.3 10BASE-T, 100BASE-TX, 1000BASE-T, 10GBASE-T
• IEEE 802.5 Token Ring and IBM Type 1
• UTP and fiber PMD interfaces

**Power Supply**
• Removable/Rechargeable LiIon batteries provide 5 to 8 hours of continuous operation.
• AC Power adapter: 100-240 V AC, plugs into the battery. Can be recharged separately.

**Dimensions**
• Size: 9.13″ x 4.96″ x 3.41″ (232 mm x 126 mm x 86.7 mm)
• Weight: approx. 3.0 lbs. (approx. 1.36 kg)

**Memory**
• 64 MByte internal flash memory
• 128 MByte USB Flash Drive included, allows for flexible test record storage

**Connectivity**
• Probe Interface Connector
• Auxiliary 10/100 Mbit/s Ethernet port, RJ-45
• Universal Serial Bus (USB 1.1) port
• Talkset interface: 3.5 mm stereo jack

**Software Upgrade**
Semi-automated software upgrade from Agilent ftp site, or using USB Flash Drive, or using USB connection to PC.

**Ordering Information**
All WireScope™ Pro Product Kits contain:
(1) WireScope™ Pro, (1) DualRemote™ Pro, (1) Category 6 Cable Test Software License, (2) AC Power adapters, (1) Soft Carrying Case, (2) Hanging Straps, (2) Category 6 Channel Probe, (2) Category 6 Universal Link Probe, (1) USB Cable, (1) ScopeData Pro Software, (1) ScopeData Pro User's Guide, (1) WireScope™ Pro User's Guide, (1) WireScope™ Pro Utilities CD Kit, (1) 128MB USB Flash Drive

**Test Kits**
N2640A-100 WireScope™ Pro Cat 6 Standard Test Kit

N2640A-130 WireScope™ Pro Cat 6 Multimode Fiber Test Kit

N2640A-140 WireScope™ Pro Cat 6 Single Mode Fiber Test Kit
N2640A-150 WireScope™ Pro Cat 6 Professional Test Kit
N2640A-230 WireScope™ Pro Cat 7 Multimode Fiber Test Kit
N2640A-240 WireScope™ Pro Cat 7 Single Mode Fiber Test Kit
N2640A-250 WireScope™ Pro Cat 7 Professional Test Kit

**Optional Probes and Accessories**
N2644A-100 Category 6 Channel Probe (set of two)

N2644A-101 Category 6 Universal Link Probe (set of two)

N2645A-134 Removable Battery Pack

N2605A-134 Hard Carrying Case

N2605A-137 Talkset Kit

N2605A-097 USB Cable

N2640A-080 Universal AC Adapter

N2604A-200 COAX Test Probe

N2644A-081 AXTalk Stimulator (1 unit)

N2644A-082 AXTalk Stimulator (6 unit multipack)

N2647A-030 Multimode Fiber Adapter (set of two)

N2647A-040  Single Mode Fiber Adapter (set of two)

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