

## 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 far exceeds Augmented Cat 6 and Cat 7 limits 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 two-way measurements in a single step.
- 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.



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### 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 Lilon 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
- 256 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 6A Channel Probe, (2) Category 6A 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) 256 MByte USB Flash Drive

### Test Kits

N2640A-100 WireScope™ Pro Cat 6 Standard Test Kit

N2642A-130 WireScope™ Pro Cat 6 Multimode Fiber Test Kit

N2642A-140 WireScope™ Pro Cat 6 Single Mode Fiber Test Kit

N2643A-150 WireScope™ Pro Cat 6 Professional Test Kit

N2642A-230 WireScope™ Pro Cat 6A/7 Multimode Fiber Test Kit

N2642A-240 WireScope™ Pro Cat 6A/7 Single Mode Fiber Test Kit

N2643A-250 WireScope™ Pro Cat 6A/7 Professional Test Kit

### Optional Probes (set of two) and Accessories

N2644A-100 Category 6A Universal Channel Probe

N2644A-101 Category 6A Universal Link Probe

N2644A-104 Siemon Category 7 TERA Channel Adapter

N2644A-105 Siemon Category 7 TERA Link Adapter

N2644A-106 Nexans Category 7 Link Adapter

N2647MM Multimode Fiber SmartProbe Pro

N2647SM Single Mode Fiber SmartProbe Pro

N2643A-100 Category 6A/7 Upgrade License

N2644A AXTalk Stimulator

N2641A-134 Hard Carrying Case

N2641A-135 Rechargeable Battery Pack

N2595A-094 Auto Lighter DC Adapter

For more information refer to the WireScope Pro™ Data Sheet 5989-5203EN

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