



## Welcome to WireScope Pro!

### Important Note for WireScope Pro Customers

Please refer to the WireScope Pro User's Guide and Software Upgrading Guide for detailed installation instructions. The notes below describe important information about this release.

As all test results stored in the WireScope Pro will be deleted, please backup all test results before performing any software upgrade.

### IMPORTANT:

1. **Use a USB thumb drive to upgrade software from version 1.x/2.x/3.x to version 4.0.9. Do not connect the WireScope Pro to your PC with a USB cable when upgrading to version 4.0.9.**
2. All users of **version 2.4.3** please perform the following upgrade instructions:  
Deviation from the recommended procedure will **erase calibration data** required for Alien Crosstalk and External Noise testing. Users of other versions, please follow the instructions given by the Software Upgrading Guide.
  1. Backup all test results.
  2. Without formatting the internal memory of the WireScope Pro, upgrade the software to a higher version.
  3. Format the internal memory of the WireScope Pro.
  4. Re-install software of a higher version.
  5. Perform a User Calibration between WireScope Pro and DualRemote Pro to upgrade the DualRemote Pro.

## WireScope Pro Release Notes for Version 4.0.9

WireScope Pro software release 4.0.9 introduces the many new features in both Cable and Network Test where some of which are software licenses. Please contact your Agilent sales representative for details on acquiring a software license for your instrument. Please have your instrument's serial number available.

This document is divided into Cable Test and Network Test sections. Users should refer to the respective sections for corresponding new features, enhancements and defect fixes.



## Cable Test

### New Features, Updates and Enhancements

1. Enhanced troubleshooting *Locator* tool for Return Loss now shows an event list that pin-points the location along the cabling with poor performance.
2. LCD brightness control which enables up to one additional hour of battery life.
3. Fiber types in *Fiber Autotest Settings* are defaulted by the type of Fiber SmartProbe inserted. Users can still select a specific vendor cable part number as required.
4. ScopeData Pro II report now includes indication if cable under test is PoE enabled.
5. Adds Software revision of WireScope Pro used in the test in the *Summary-Overview* screen of ScopeData Pro II.
6. Adds time-stamps up to the seconds in ScopeData Pro II test reports for better records differentiation and management.
7. Adds support for simplex fiber configuration.
8. Standards related updates:
  - a. Terminology Update: *ACR-F* replaces *ELFEXT*, *Insertion Loss* replaces *Attenuation*.
  - b. Includes ISO/IEC 11801 Edition 2 Amendment 1 and 2(Draft). Adds Class E<sub>A</sub> permanent link limit.
  - c. PSAACRF shall be for information only when PSAFEXT loss is greater than  $72-15\log(f/100)\text{dB}$  or 67 dB as specified in TIA/EIA 568B-AD10.

### Defects Resolved

1. Rare occasions of Fiber SmartProbe reported undetected while workaround was to re-insert the SmartProbe.
2. ScopeData Pro II now correctly shows 3dB/4dB rule (ISO/IEC 11801) and 3dB rule (EIA/TIA 568B) in the *Test Options* of each test records.
3. Duplicated test results on USB drive when mounted/merges with WireScope Pro with the same set of test results.

### Known Issues in this release and workaround

- 1) When removing a MM or SM Fiber SmartProbe and inserting a copper SmartProbe, on rare occasion the unit may freeze.  
*Power cycle the unit if this happens.*
- 2) USB Flash Drive may not be detected if attached prior to system boot up.  
*Re-attach the USB Flash Drive after the WireScope Pro has booted up completely.*



- 3) Attenuation curve of long cables will show abnormal results at frequencies higher than 600 MHz.  
*For frequency above 600 MHz, data are for information only.*
- 4) USB Flash Drive cannot be formatted using the WireScope Pro.  
*Format USB Flash Drive using PC.*
- 5) Auxiliary Network Port remote control will disconnect during Measurements and reconnect back after completion.  
*No action required*
- 6) If the WireScope Pro is powered up with Fiber SmartProbes inserted, the Main Menu may not switch to the Fiber Menu.  
*Re-insert the Fiber SmartProbe to activate the Fiber Menu*
- 7) Limitations in testing cables with less than four (4) pairs:
  - a) *Certify Network* feature is not available for cables with less than four (4) pairs as only single-ended measurements are carried out.
  - b) Single ended measurements are carried out on cabling parameters. LED on DualRemote Pro will not report correct indications.
  - c) Testing cable pair (4,5), only Wiremap is reported correctly.  
*For accurate length measurement, users are advised to use the **Measure Length** tool.*



## **Professional Network Test Suite**

The WireScope Pro Professional Network Test Suite adds network testing tools like Auto Network Discovery, Auto Network Test, Ping, TraceRoute, SNMP Query, Traffic Statistics, VoIP QoS Testing, Traffic Generator and many more. These are optional license activated feature which enables users to certify network cablings as well as network services.

### **New Features**

- 1) Adds Traffic Generator capability via optional software license N2640A-011.
- 2) Adds VoIP QoS Test capability (RFC 3261) via optional software license N2640A-030.
- 3) Activates Auxiliary Network Port via optional software license N2640A-041.

### **Issues fixed in this release:**

- 1) The occurrence of blank screen when moving to new GUI screens is reduced when the system is operating in demo mode.
- 2) The default settings of boot password and restore default MAC are now restored after resetting the system to factory default settings.
- 3) The network link can now be established after restarting the system and turning off the demo mode.
- 4) In the NT file server Autotest setup, the "No File Access" option can now be re-selected after selecting other options.

### **Known Issues in this release and workaround**

- 1) The "IP unconfigurable" warning message may be displayed after changing the network link duplex type.  
Workaround: None. Ignore the warning.
- 2) The Traffic Generator tool only supports full-duplex links.
- 3) The Traffic Generator tool does not support transmitting undersized (short) frames.



**Special Notes**

- 1) The Traffic Generator may not reach line rate if error insertion is enabled.
- 2) Observations on the LED of the Test Port:
  - a. When Copper media is connected, the lower LED will light up and when there's a link activity, this LED will blink.
  - b. When Fiber media is connected, the upper LED will light up and when there's a link activity, the lower LED will blink.

For the full sets of test functions and specifications, please refer to the Technical Specifications available on <http://www.agilent.com/find/wirescope>, publication no. 5989-5203EN.

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