

Agilent Technologies
WireScope™ Pro N2640A
Frequently Asked Questions

Q1. How can the WireScope Pro test better and faster for me?

A1. WireScope Pro executes Autotest measurement time in 9 seconds for a 1 MHz to 1 GHz sweep. WireScope Pro's efficient user interface optimized factors, like time to prepare the setup, perform testing, perform post processing, and saving results. WireScope Pro offers high efficiency test modes like Auto Continuous Testing where the processes of initiating a test and saving test result are automated to save technician's time.

Q2. How long does it take to charge up the battery pack?

A2. Typically 6 hours of charging reaches more than 95% of charge capacity using one of the following setup

- a) Charging the battery pack without attaching it to the WireScope Pro or DualRemote Pro.
- b) Charging the battery pack while attached to WireScope Pro or DualRemote Pro which are powered off.

Q3. How long can a fully charged battery operate on a WireScope Pro?

A3. Typically a fully charged battery will operate for 6 hours with an Autotest performed every two minutes.

Q4. How long can a fully charged battery operate on a DualRemote Pro?

A4. Typically a fully charged battery will operate for 9½ hours with an Autotest performed every two minutes.

Q5. Is there an independent report proving that WireScope Pro's standards compliance?

A5. WireScope Pro is certified by ETL and UL. ETL certifies WireScope Pro Level IV compliant as per IEC61935. UL certifies EMC and safety tests.

Q6. How large are each test results file saved?

A6. Full plots results are 97kB and Summary only results are 3.3 kB.

Q7. What is the maximum number of full measurement that can be stored in the internal memory and the USB flash drive?

A7. With 15.6MB of usable internal memory we can store 160 records (full plots) and 4800 (summary) respectively. With the 256MB USB flash drive we supply, the number will be 2600 and 77,500 respectively.

Q8. Is there any protection against continuous voltage and current overloads up to 100 mA?

A8. Yes, there is over voltage (above 5.5V to 60V) and over current protection (upon detection of voltage, circuit goes open circuit)

Q9. How many charging cycles can the battery pack last?

A9. Typically 300 cycles

Q10. What is new in the Fiber SmartProbes?

A10. The new Fiber SmartProbes now support dual wavelengths (850 & 1300 nm, 1310 & 1550 nm). This eliminates the need to swap SmartProbes and Fiber, which speeds up the test by a factor of 3.

Q11. Can the Fiber SmartProbes test both 62.5 μm and 50 μm fiber?

A11. Yes. Our lab test shows that the measurement has 0.1 dB difference between the two.

Q12. How often should the WireScope Pro be calibrated?

A12. The WireScope Pro and the DualRemote Pro is due for calibration at Agilent's Service Center every 12 months. There is generally no need to perform calibration between the WireScope Pro and DualRemote Pro before every single test.

Remote Calibration (user-performed) is required under the following conditions

- When you are using a different DualRemote from the one originally shipped with the WireScope Pro.
- After upgrading the software of the WireScope Pro.
- Before any Fiber measurements, except power meter.
- When transitioning from CAT7/Class F copper cable test to a CAT6A/Class E or lower performance categories.
- When transitioning from CAT6A/Class E or lower performance categories to a CAT7/Class F copper cable test

Q12. Does the WireScope Pro come with optional calibration cable like WireScope 350?

How is field (user) calibration done on the WireScope Pro and DualRemote Pro?

A12. For CAT6A/Class E or lower categories, Remote Calibration requires the following set-up

- Connect a CAT6A Permanent Link Adapter to WireScope Pro and a CAT6A Channel Adapter to DualRemote.
- Connect the RJ-45 connector of the CAT6A permanent Link Adapter to the RJ-45 jack of CAT6A Channel Adapter on the DualRemote
- Follow the onscreen instructions in *Calibration*.

For Class F testing, Remote Calibration requires the following setup

- Connect a Siemon Tera Channel Adapter on WireScope Pro and DualRemote Pro
- Connect the two devices through a Siemon Tera patch cord 2 m or shorter in length
- Follow the onscreen instructions in *Calibration*.

Q13. Does WireScope Pro measure characteristic impedance?

A13. No, but WireScope Pro measures Return Loss and characteristic impedance can be derived from it. Return loss is usually more informative measurement than characteristic impedance.

Q14. Can Foil Twisted Pair (FTP) cable be tested on WireScope Pro?

A14. Yes, provided the foil is connected to the shield of the plug.

Q15. What type/grade of connector is used on the Link SmartProbe?

A15. The connector is Medium grade from SMP.

Q16. How reliable are the Link SmartProbe? How many insertions can it last?

A16. The reliability is subjected to how each and every customer uses it in the field. .

Q17. Can the WireScope Pro test Patch Cords?

A17. At the release of this document, this feature is not available.

Q18. Can the WireScope Pro test Coax cables?

A18. At the release of this document, this feature is not available.

Q19. Can the WireScope Pro generate tones which can be detected by a tone probe/detector? The tones will be generated in all pairs and for the frequency range of 440 – 831 Hz.

A19. No. WireScope Pro does not have tone generation. The WireScope does the measurements in frequency domain and converts necessary information to time domain parameters (e.g. length). This is the same principle as the bench top Vector Network Analyzers.

Q20. Can WireScope 350 probes be used on WireScope Pro?

A20. No. The WireScope Pro and the new probes are re-engineered and re-design to provide utmost robustness and reliability.

Q21. What is the difference between ScopeData Pro and ScopeData Pro II?

A21. The operations between the two are identical. ScopeData Pro II now support up to 1GHz range. This version also supports both WireScope Pro and WireScope 350 databases and measurement results.

Q22. WireScope 350 used to have different SmartProbes for different wavelength. There are a total of 4 types. What has changed in WireScope Pro?

A22. By achieving the ability to test two wavelengths in one probe, WireScope Pro now only requires two probes (MM and SM). This also eliminates the need to swap fibers during tests.

Q23. Does WireScope Pro support TLS2000 Bradly Printer?

A23. At the release of this document, printer support is not available on the WireScope Pro.

Q24. Do the WireScope Pro kits come with hard carrying case?

A24. Professional Kits N2643A-xxx are supplied with hard carrying case. Other options are supplied with soft carrying case. Hard carrying case (N2641A-134) can also be order separately..

Q25. Why is 10GBase-T *Certify Network* feature not available?

A25. We will release and finalize the feature once the 10GBase-T requirements are finalized in the standards.

Q26. Is POE testing available on the WireScope Pro?

A26. At the release of this document, this feature is not available.