

Nemo Intelligent Device Interface

5G NR Drive Test and Benchmarking Solution

Nemo Intelligent Device Interface, from Keysight Technologies Inc., is a revolutionary device control solution for 5G NR and LTE-A QoS and QoE measurements. Nemo Intelligent Device Interface can be used together with our drive test and benchmarking tools Nemo Outdoor and Nemo Invex II.

The platform offers a future-proof solution with an easy upgrade path for new devices. With Nemo Intelligent Device Interface, you can perform true QoE measurements using unmodified antennas of real consumer devices. It is easily expandable from a single handheld unit to a large-scale benchmarking system providing significant CAPEX savings as the same modules and accessories can be reused over years, for several phone models.



Features

- Device control solution for 5G NR and LTE-A QoS and QoE measurements
- Easily expandable from a single handheld unit to a large-scale benchmarking system
- Support for LTE-A and 5G NR devices with internal massive MIMO antennas
- True QoE measurements with on-device OTT applications
- POLQA voice quality testing over analog or Bluetooth audio
- Highly modular with a wide range of mounting options for all usage scenarios
- Uniform RF and thermal conditions for all smartphones ensure comparable test results
- Unique self healing feature ensures recovery and maximized uptime
- Support for up to nine devices with Nemo Outdoor and up to 24 devices with Nemo Invex II
- ETSI and P3 compatible test scripts and report templates included



Make the Leap to 5G NR

Customers require the ability to reliably verify the 5G NR promise of gigabit speed and millisecond latency from the end-user perspective using the latest commercial devices. In 5G NR, massive MIMO and beamforming use high-gain directional antenna arrays, which requires the use of the smartphone's own unmodified antennas in order to measure true QoE from the end-user perspective. With Nemo Device Interface Module, this is now possible, speeding up the time-to-market of your 5G NR devices, services, and networks.

Nemo Device Interface Module is a revolutionary new device control solution for QoS and QoE measurements – ensuring wireless network operators can successfully run optimized 5G NR networks.

Next-Generation Drive Testing and Benchmarking for Mobile Networks

Nemo Intelligent Device Interface brings existing drive testing and benchmarking systems to the 5G NR era. It enables the benchmarking and drive testing of all cellular technologies ranging from legacy 2G to 5G NR, considering the unique characteristics of each technology.

Nemo Intelligent Device Interface collects KPIs from the services that the end-users are using. With the Nemo Intelligent Device Interface you can test, for example, the voice quality of OTT services with any device that supports analog or Bluetooth audio.

Flexible and Reliable

Nemo Intelligent Device Interface offers a wide range of flexible mounting options for drive testing, from a window-mountable lightweight rack to a sturdy thermo-controlled casing that can be mounted outside the test vehicle. Uniform RF and thermal conditions for all smartphones ensure comparable test results. Same modules and accessories can be reused for several phone models and its self-healing features ensure maximized measurement uptime and performance, saving up to 20% of drive test-related OPEX.

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

