

# Nemo Handy

## Fast, Efficient, On-the-Go Network Measurement and Troubleshooting

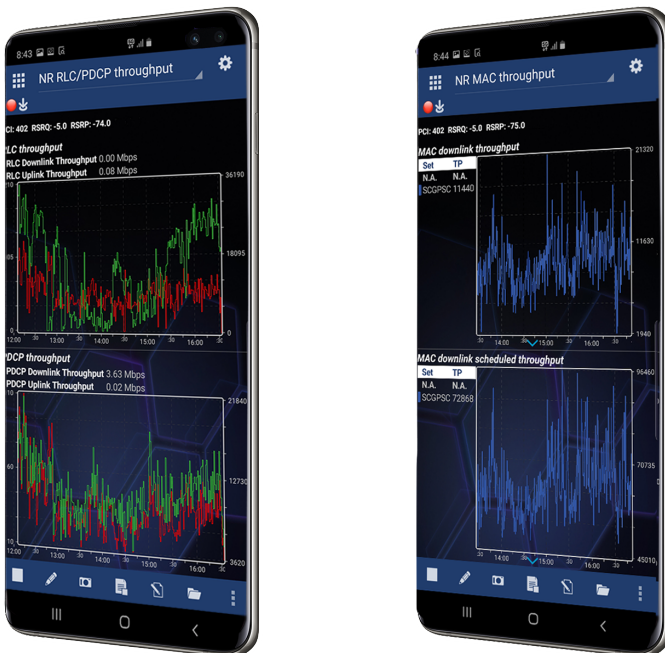
Nemo Handy provides you with smart and discreet solutions for thorough and advanced measurement and optimization of wireless air interface and mobile application Quality-of-Service (QoS) and Quality-of-Experience (QoE). The handheld Nemo Handy products are highly suitable for performing measurements both outdoors and in busy, crowded indoor spaces while being simultaneously used as a regular mobile phone.

Nemo Handy products provide you with the best real-time measurement visualization on the handheld market. In addition to a rich variety of real-time displays, all RF and signaling data is logged to the phone's internal storage. Log files are made available in Nemo file format for easy post-processing with Nemo post-processing tools or third-party post-processing tools.



### Measure and monitor

- 5G NR (with Qualcomm X50/X55 and Samsung Shannon chipset based devices)
- LTE/LTE-A
- GSM
- CDMA
- EVDO
- WCDMA
- HSDPA
- HSUPA
- HSPA+
- WiFi (HetNet)



## Improve your wireless network measurements

Make outdoor and indoor wireless network measurements with a smart and inconspicuous application installed on the latest Android-based devices, such as Samsung Galaxy S20+ 5G (both Exynos and Qualcomm variants), Samsung Galaxy Note 10+ 5G, and OnePlus 8.

- Create complex measurement scripts more easily and effectively
- Reduce test time with the intuitive user interface
- Test a wide range of social media testing apps/protocols
- Concentrate on the actual troubleshooting rather than on manually adding markers on floorplans with the automated location mapping feature
- Manage routes for drive testing remotely with turn-by-turn navigation (optional)
- Perform site acceptance and verification testing (optional) and single site verification testing (optional)
- Perform audio quality and video quality tests: POLQA, PESQ, PEVQ-S
- Combine scanning and indoor measurements with portable, battery-operated PCTEL IBflex and PCTEL HBflex scanners
- Streamline operations and improve responsiveness with the Nemo Cloud option, a cloud-based platform for centralized remote control
- Create fast and efficient reports in the field with the Nemo Instant Report option
- Available in the following product editions: Nemo Handy Field Test (FT), Nemo Handy Basic, Nemo Handy Pro, Nemo Handy QualityApp, Nemo Handy Autonomous, Nemo Handy Work Order, Nemo Handy Site Acceptance, and Nemo Handy SSV (Single Site Verification).

## 5G NR Support

The 5G NR support in Nemo Handy enables operators and network vendors to test the advanced features and performance of 5G NR networks in busy and crowded indoor spaces. Currently, Nemo Handy supports 5G NR measurements with Qualcomm X50/X55 and Samsung Shannon chipset based devices (pending device availability). The collected metrics include RACH information, TX power, rank (MIMO mode), modulation, MAC throughput and BLER, signal strength, and quality metrics of the SSB beams. In addition, Nemo Handy collects QoS measurements including throughput and latency.

## Full measurement functionality with new commercial smartphones



**Nemo Diagnostic Module can be carried in a compact hip belt with a wired connection to the phone**

The accelerated pace of new 5G smartphone launches creates the need to quickly test with new devices in the network. Nemo Handy together with the external Nemo Diagnostic Module (NDM) enables full measurement functionality with commercial off-the-shelf smartphones. No special firmware or rooting is needed.

The measurement solution supports all Samsung and Qualcomm chipset-based phone models and is reusable over new phone models, hence there are no additional costs when changing the phone. The license for voice quality testing using POLQA is associated with the NDM, therefore the same license can be used when changing the phone. Voice quality testing complies with ITU-T specified recommendations for voice quality analysis of HD voice in 4G and 5G networks.

Learn more at: [www.keysight.com](http://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](http://www.keysight.com/find/contactus)

