

Nemo Walker Air

Indoor Benchmarking on the Go

Nemo Walker Air is an ideal solution for performing indoor measurements and benchmarking on multiple technologies. It is lightweight, easy to carry and set up, and the complete system operates for up to 10 hours.



Features

- Synchronize indoor benchmarking measurements and script events with up to seven test terminals
- Controller conducts measurements, controls, and coordinates the agent units via a *Bluetooth*® connection
- Supports the following technologies: 5G NR, 5G NR NSA/SA, 5G Carrier Aggregation, LTE/LTE-A, legacy technologies from 2G to 4G, WiFi, and WiFi6.
- Audio quality and video streaming quality tests (POLQA, PEVQ-S)
- Supports Qualcomm (X75) and latest Samsung Shannon chipsets
- Enables performing 5G NR scanner measurements using PCTEL Gflex™ / HBflex™ / IBflex™ and R&S® TSMA6 Autonomous Mobile Network scanner devices
- Turn-by-turn navigation (optional) enables remote management of drive testing
- Automated location mapping enables concentrating on the actual troubleshooting instead of having to manually add markers on floorplans
- Nemo Backpack Air and Nemo Backpack Air Pro – a lightweight carrying solution for the whole system
- Nemo Cloud option – a cloud-based platform for centralized remote control
- Nemo Instant Report option – a quick way to create reports in the field

Widest Selection of Android-Based Devices on the Market

Nemo Walker Air enables extensive synchronized measurements and script events with up to seven test terminals. One tablet acts as a controller unit, conducting multi-measurements by sending commands to the agent units via a *Bluetooth* connection. Log files can be uploaded to Nemo Cloud or FTP/ HTTP server from the controller unit or collected manually from the agent units. The collected data can be directly analyzed with Keysight's Nemo post-processing tools. Nemo Walker Air supports the latest smartphones and tablets, including Samsung S25 and S24 variants, Samsung Xcover6 Pro, Xiaomi 14 , OnePlus12, Motorola Edge 50 Ultra, and Sony Xperia 1 VI.



Optional Carrying Solution – Backpack Air

Backpack Air is a customized, lightweight, and compact carrying solution for the Nemo Walker Air system. With high-quality USB batteries, Backpack Air can be used as a standalone system without an external power source. Backpack Air can also be used when performing scanner measurements with the PCTEL® IBflex scanner.



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 Walker Air 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. Up to two Nemo Walker Air units can be connected to the NDM at the same time. Note that the external diagnostics port (USB) must be enabled on the used phone model and a driver on the NDM HW needs to be available.

The license for voice quality testing using POLQA or ViSQOL 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.

Voice quality testing is performed with the optional Nemo Intelligent Device Interface (NIDI). Both analog and digital (*Bluetooth*) methods are supported.

Bluetooth® and the Bluetooth logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by Keysight Technologies is under license.

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.



This information is subject to change without notice. © Keysight Technologies, 2017 – 2025, Published in USA, July 11, 2025, 5992-2051EN