

PORTABLE DATA ACQUISITION SYSTEM

COMPLETE NVH DATA RECORDINGS ARE NOW AS MOBILE AS THE CAR

Sonoscout™



Brüel & Kjær 

BEYOND MEASURE

CONTROL, COMPARE AND ANALYSE IN THE VEHICLE

Whenever engineers evaluate a design change or characterize a vehicle, they need to record NVH data, quickly and with maximum confidence in their measurements. Sonoscout is a highly portable system that lets them quickly grab-and-go and validate results immediately.



The Sonoscout App for iPad® works in combination with a wireless LAN-XI Data Acquisition Hardware module, which connects to measurement transducers, a binaural microphone headset and a vehicle CAN bus reader and transmits the data to the iPad – or records directly onto an SD card.

Measurements are controlled on a clearly visible dashboard-mounted iPad. A simple interface lets users mark events and replay time histories immediately after they have finished recording. They can then validate data by exploring it with their fingertips, listening to replays and comparing with other tests and vehicles. Consequently, engineers can easily ensure that their results and data are reliable before leaving the test vehicle and, ultimately, perform more engineering on the go.

Grab-and-go when time is short

Quickly place the compact LAN-XI front end anywhere using short transducer cables and power from the self-contained battery. You can use the iPad to take pictures and videos to document measurements, then mount it on the dashboard and connect wirelessly to the front end. Automatic TEDS transducer recognition minimizes setup errors. The data acquisition front end eliminates input ranging and the risks of overloads, under-ranges and signal clipping with unique Dyn-X technology, which automatically switches between two parallel analogue-to-digital converters to keep signals comfortably in range.

Simple one-person operation

Big control buttons and intuitive multi-touch operation make Sonoscout so simple to navigate that it doesn't need a manual.

Get continuous test information in real-time

Seeing all test information as it records is invaluable. Maximum confidence comes from seeing that your test setup is working perfectly and that your data recording is valid – from the driver's seat. You can also listen to any transducer signals at any time to check mounting and signal quality.

Touch the data to validate and explore

Be certain of your results in the simplest way possible using multi-touch analysis – such as pinching graphs to zoom them.

- FFT, synthesized 1/3-octave, order analysis, spectrogram analysis and sound quality metrics
- Compare up to four tests on the screen

Finish testing as soon as you are certain

Mobile analysis gives early confirmation when problems have been identified, allowing you to optimize your test plan based on up-to-date results.

- Embrace a more flexible workflow
- Develop more on the go

Share highly relevant data simply

Send data ready for further analysis in PULSE Reflex™ or other post-processing programs, or for input to an NVH simulator.

- Export in common file formats: .bkc, .pti, .wav, .hdf, .SDF, .ASQ-WAV and ASAM-ODS, ATFX
- Simple options for transferring data via SD card to PC include Wi-Fi, iTunes® and DiskAid or iPad webpage



See the video



Try the app



Unleash your LAN-XI system

If you already have LAN-XI hardware, you're already halfway there. Unlocking the potential in your hardware gives you one front end for all your needs: in the lab, in the field, and on the road.



See the full picture with CAN data

Sonoscout, the popular NVH recorder from Brüel & Kjær for validation and engineering on the go or in-production testing, now includes CAN data. This allows you to record all CAN parameters, and revisit this data later for processing. Sonoscout connects to a vehicle's CAN bus to log all CAN data including engine RPM, speed, throttle position, and more.



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