



Setting standards

SQuadriga III – The future of mobile measurement systems

SQuadriga III

With the familiar small form factor, the latest generation of SQuadriga offers an unprecedented scope of functionality, usability, and versatility – without losing any of its proven features. The mobile measurement system combines a multitude of built-in interfaces, eliminating the need for additional adapters. The connection of binaural sensors, such as the BHS II headset or an artificial head, allows binaural recordings and playback to be performed easily. The built-in FlexRay interface, the two CAN FD ports, and the two pulse inputs are electrically isolated.

The HEADlink interface allows for a seamless integration with a HEADlab system. Vice versa, SQuadriga III can also be extended using a HEADlab module. For mobile operation, the module can be powered by the high-capacity battery. Adding a second SQuadriga III unit allows users to set up a mobile system with up to 16 analog channels. In stand-alone mode, analyses can be performed directly at the measurement site. In addition, three USB ports are available, e.g. for connecting an external USB camera for making photos or videos of measurement situations.

The user-oriented design of SQuadriga III is completed by a large 7" display with a capacitive multitouch and intuitive handling. The powerful processor not only handles time-domain signals, FFT, and third-octave spectrum calculations, but is also prepared for future calculations of psychoacoustic analyses, such as sharpness or loudness.



SQuadriga III – Features

Compact device for mobile operation / analysis

Large colour touchscreen, 7" (18 cm)

64 GB internal memory, CPU: 800 MHz, dual core

8 analog inputs / outputs (for BHS II headset, 6x BNC), TEDS, ICP®: 2 mA or 4 mA, inputs DC compatible, AC: optional high-pass filter

Equalized headphone output (playback, monitoring)

2 x CAN FD / OBD2, FlexRay: recording, decoding in real time

3 USB ports (type A) for extensions

2 pulse inputs, electrically isolated, signal conditioning with adjustable threshold and hysteresis

Built-in satellite receiver for GPS, Glonass, Galileo, BeiDou

Retroactive synchronization of recordings from devices at different locations possible

Powerful built-in rechargeable battery for up to 8 h of mobile operation

Electrically isolated power supply with wide-range input for connection to vehicle power

HEADlink:

- HEADlink interface (electrically isolated) for seamless integration with HEADlab systems
- HEADlink+ interface for:
 - extension with a second SQuadriga III unit or a HEADlab module (powered by the built-in battery)
 - connection of an HMS IV artificial head via AES/EBU