HEAD acoustics

labCORE

All-in-one Solution

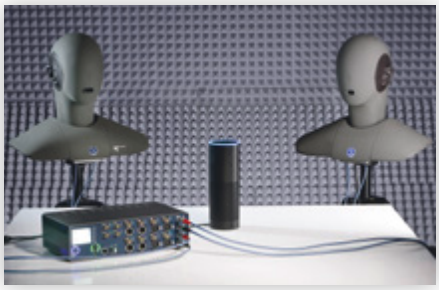
Modular hardware platform for voice and audio quality testing

www.head-acoustics.com

*lab*CORE

*lab*CORE is the modular hardware platform for high-precision voice and audio quality testing and tailored for use with the measurement and analysis software ACQUA. Multi-channel capability, high-end inputs and outputs, programmable interfaces: *lab*CORE provides numerous features in a single unit. Users can adapt the hardware platform exactly to individual measuring scenarios and flexibly expand it at any time as required. This modularity makes *lab*CORE future-proof. Optional hardware and software extensions increase the scope of technologies quickly and easily.

Whether mobile phones, headphones, voice-controlled IoT devices like smart speakers or in-vehicle hands-free devices and ICC systems: the versatile hardware platform *lab*CORE is the all-in-one solution for voice and audio quality testing for the highest demands.



Highlights at a Glance

Up to 32 channels at 48 kHz or up to 8 channels at 192 kHz sampling rate

Basic Unit

USB audio host (type C) port at the front for audio measurements of e.g. USB headsets and headphones

Headphone output (6.3 mm socket) for measuring and monitoring purposes

Two BNC sockets as general purpose input/output (GPIO), that serve as a digital audio interface (e.g. programmable as I^2S)

Two analog BNC input and two analog BNC output sockets

Two AES inputs/outputs

Software & Hardware Extensions

Two separate power amplifiers, each providing 20 watts RMS (class D technology) for simultaneous operation of two mouths of an artificial head or two loudspeaker drivers

Bluetooth® functionality including codecs and profiles

Two high-precision and low-noise analog output channels where each output has an XLR or BNC connection; provides a balanced/unbalanced signal; typical residual THD+N of at least -114 dB

Two analog input channels characterized by highest signal precision, lowest distortion and lowest inherent noise (THD+N -115 dB); each input has an XLR or a BNC socket

Four LEMO 7-pin microphone inputs for externally polarized microphones and TEDS support; enable concurrent connection of the ears of an artificial head measurement system as well as measurement microphones

VoIP reference gateway functionality supporting many common voice codecs and sophisticated codecs like e.g. EVS, AMR, OPUS as well as simulation of network impairments

A^2B® interface for testing and optimizing any device connected to an automotive audio bus system

Learn more on *lab*CORE and scan the QR code!
www.head-acoustics.de/eng/telecom_labCORE.htm