

HQS-ANC-Headset: HEAD acoustics' comprehensive test solution for ANC headphones and headsets

Testing and optimizing the ANC performance and the overall speech and audio quality of headphones and headsets is essential for manufacturers. HEAD acoustics offers a comprehensive solution for this: HQS-ANC-Headset is the new test suite for the communication analysis system ACQUA.

Evaluate ANC performance

"Customer demands for state-of-the-art ANC headphones and headsets are constantly increasing: they have to individually adapt the audio experience to the surrounding, block out unwanted background noises, but still allow hearing of important announcements at train stations or in planes with reduced background noise. At the same time, they must consistently ensure excellent sound quality and clear hands-free calls," says Christian Schüring, Sales Manager Telecom at HEAD acoustics. "With the HQS-ANC-Headset, we enable manufacturers to test headphones and headsets with Active Noise Cancelling comprehensively and automatically. The test suite supports several external noise scenarios for assessing ANC performance: A realistic simulation of background noise, a second talker and announcements via an external loudspeaker. HQS-ANC-Headset includes tests to compare passive noise isolation with active noise cancellation of the headphone. In addition, the effectiveness of the talk-through function can be evaluated.

Optimize audio playback and communication quality

To assess the general audio quality, tests are available for e.g. frequency response, distortion, signal-to-noise ratio and sound leakage. Thus, HQS-ANC Headset allows optimizing the audio playback of headphones and headsets. For testing the speech and communication quality of the hands-free function, the test suite includes basic and advanced telecommunications measurements. This involves, for example, testing the communication in send and receive direction as well as the echo performance. All bandwidths are supported, from narrowband through wideband to super-wideband.

With HQS-ANC Headset, manufacturers are able to test ANC headphones and headsets with passive (wired), USB-powered as well as Bluetooth® connection.

About HEAD acoustics

HEAD acoustics GmbH is one of the world's leading companies for integrated acoustic solutions as well as sound and vibration analysis. In the telecom sector, the company enjoys global recognition due to the expertise and pioneering role in the development of hardware and software for the measurement, analysis and optimization of voice and audio quality as well as customer-specific solutions and services. HEAD acoustics' range of services covers sound engineering for technical products, investigation of environmental noise, voice quality engineering as well as consulting, training and support. The medium-sized company from Herzogenrath near Aachen (Germany) has subsidiaries in China, France, Italy, Japan, South Korea, the UK, and the USA as well as numerous sales partners worldwide.

Images



HQS-ANC-Headset is the new test suite from HEAD acoustics' for the use with the communication quality analysis system ACQUA. The measurements enable manufacturers to test and further develop state-of-the-art (ANC) headphones and headsets.