

NEW

OAE with Active Noise Reduction



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WHAT'S NEW?

In audiology the measurement of Otoacoustic Emissions are an important component for testing the function of the cochlea. It is also a globally recognized measurement method for use in newborn hearing screening.



However, the reliability of the diagnosis and the speed of the measurement are highly dependent on the environmental noise floor. Often in newborn stations and in incubators such measurements cannot be performed due to high ambient noise. The reason is a too tiny signal-to-noise ratio (SNR) which does lead into a low specificity of the measurement.

The new development Active-Noise-Reduction system records also the background noise allowing the user a direct and individual adaption of the OAE measurement to the environmental noise.

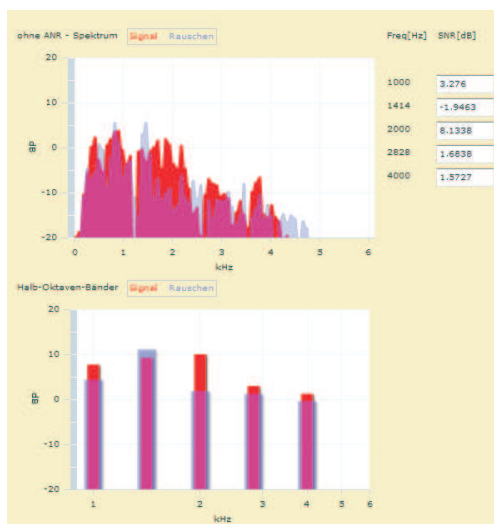
Advantages of the method compared with conventional OAE - methods:

1. Highly reduced influence of the ambient noise
2. High reproducibility of the measurement results
3. Faster measurement due to low artifact rates

Comparison of measurement with / without Active - Noise - Reduction (ANR):

Ambient Noise: Open Window with Traffic Noise

ANR: OFF



ANR: ON

