

## Standardization of Soundscape: Request of Binaural Recording

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The binaural recording using an artificial head is the only and simply method to capture sound events comparable to the human ears. Using calibrated equalized headphones it is possible to reproduce earsignals at the listener ear to reproduce the same hearing event like in the original sound situation. For more than 40 years applications of binaural recordings are being intensively used in the automotive industry to optimize vehicle interior sound. That means the advantage of this technology for the analysis of complex sound situations in combination with assessment and evaluation is proven since a long time. Nowadays, within the scope of soundscape standardization ISO 12913, recommendations are being discussed regarding the use of binaural technology for recording environmental sounds, where in the past normally only single microphones were used. For an overall estimation of the total sound pressure level this may be sufficient, but in a complex sound situation, like soundscapes with several different sound sources at different location, the selectivity of the human hearing is only given properly by binaural listening.

This paper will explain the technology of binaural recording and playback systems and its advantages in comparison with other sound recording systems.

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