



Description of the recording protocol followed by FORCE Technology for recording hearing aids in realistic sound scenarios in lab conditions for HEIMDALL'S.

September 2021

SVLE

Version 1.1

The hearing aids were recorded on a G.R.A.S. Kemar 45BB head and torso simulator for test of binaural hearing aids in SenseLabs standardized listening room (EBU 3276).

A selection of real-life recorded sound scenarios (Ambisonics format) were played back at calibrated levels over a 26 channel loudspeaker setup in the listening room, while the hearing aids were positioned on the Kemar and recorded binaurally. The recordings were compensated for the Kemar coupler response.

To ensure that the hearing aids were fully adapted to the sound scenario, each scenario was pre-rolled for at least for 20 seconds before the recording was made.

All hearing aids were fitted by HEIMDALL'S and provided to FORCE Technology including receivers and domes in the length/size suited for mounting the devices on a G.R.A.S. Kemar 45BB.

Each hearing aid was provided with fresh/fully charged batteries prior to the recordings.

The hearing aids were fitted on the Kemar by an experienced person and special care was taken to place the dome in a centered position with minimum leakage in both left and right ear.

The recordings found on HEIMDALL'S website are compressed to 112kbps, constant bitrate, MP3.

The recordings should be listened to over high quality, open headphones with neutral spectral coloration (e.g. Sennheiser HD650) to obtain a realistic and transparent experience of the hearing aid sounds.