

CAM2

Software for Hearing Aid Fitting

Case Ref: Moo-2554-11



CAM2 was developed by Professor Brian Moore, Dr Brian Glasberg, and Dr Michael Stone to provide a superior solution for the tailoring of wide-band hearing aid parameters to the individual hearing impaired listener by using the audiogram alone. CAM2 provides greater audibility over a wider frequency range than other fitting methods^{1,2} and its fitting is generally preferred to that obtained using the current leading software for both speech and music signals³. For further information visit: <https://www.psychol.cam.ac.uk/hearing>

Key Benefits

- Suitable for fitting wide-bandwidth multi channel hearing aids
- Fitting mostly preferred over the current leading software
- Provides recommended gain settings for frequencies up to 10 kHz leading to improved:
 - Speech perception in complex environments
 - Quality of musical sounds
 - Awareness of environmental sounds
 - Loudness and sound quality in everyday life

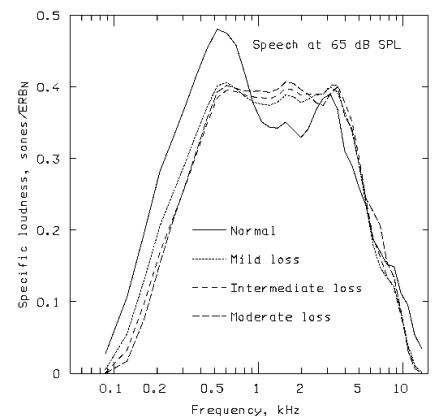
Features

- Aid characteristics can be specified:
 - Number of compression channels
 - Edge frequencies & compression threshold of each channel
- Several pre-defined aid settings provided
- Adjustment for previous experience
- Easy to use

Licensing

- Available for evaluation and licensing by researchers, professional audiologists and hearing aid manufacturers.
- Versions are available in C for incorporation into fitting software suites or as a standalone version for use in Windows OS.

Figure 1. High quality speech perception over a wide range of frequencies using CAM2. Specific loudness patterns for a sound with a spectrum representative of speech are shown for hypothetical normal ears listening to unamplified speech (solid line) and ears with different degrees of sloping hearing loss, with the sound amplified by frequency-dependent gains prescribed by CAM2.



References:

1. Johnson EE and Dillon H, A comparison of gain for adults from generic hearing aid prescriptive methods. JAAA 2011; 22 (7):441-59
2. Arbogast, T. L., Moore, B. C. J., Puria, S., Dundas, D., Brimacombe, J., Edwards, B., Carr Levy, S., 2019. Achieved gain and subjective outcomes for a wide-bandwidth contact hearing aid fitted using CAM2. Ear Hear. 40, 741-756.
3. Moore BCJ and Sek A, Comparison of CAM2 and NALNL2 Hearing Aid Fitting Methods. Ear Hearing 2012; Aug 8th, Epub.
4. Moore BCJ, Glasberg BR, Stone MA, Development of a new method for deriving initial fittings for hearing aids with multi-channel compression: CAMEQ2-HF. Int. J. Audiol. 2010; 49: 216-227

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