



MASTER II

Multiple **A**uditory **S**Teady-State **E**voked **R**esponse

The Physiologic Audiometer

New & Improved Software Version

- Updated user interface
- Two channel option
- Patient database shared with other Bio-logic Navigator Pro applications
- Expanded automated data collection stopping rules
- Enhanced patient reports

M•A•S•T•E•R II

Multiple **A**uditory **S**Teady-State **E**voked **R**esponse

Fast. Accurate. Objective.

Bio-logic M•A•S•T•E•R II is a must have addition to the clinical electrophysiological test battery for rapid multiple frequency threshold assessment in:

- Infants & young children
- Children or adults with special needs
- Workers' compensation cases

The M•A•S•T•E•R II program offers:

- Patented technology that obtains frequency-specific auditory threshold information¹
- Simultaneous testing up to 4 frequencies per ear²
- View real-time EEG and the response spectrum
- Easy tracking of results — table on the collection screen records the f-ratio for each frequency collected at each intensity level
- Printing of physiological audiogram with air conduction, bone conduction & soundfield data on the same audiogram
- User-defined stopping rules to halt collection when response criteria is not met
- Choice of montage using Cz to Nape or Cz to Mastoids
- Masking is available for bone conduction or unilateral hearing loss³

1. Patent Number: 6602202.

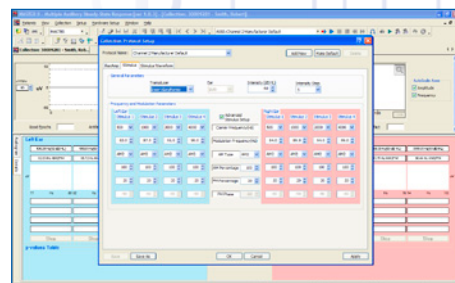
2. John M.S., Purcell D.W., Dimitrijevic A., & Picton T.W. (2002) Advantages and caveats of recording steady-state responses to multiple simultaneous stimuli. *Journal of American Academy of Audiology*, 13:256-259.

3. Jeng, F.C., Brown, C., Johnson, T., & Vander Werff, K (2004) Estimating Air-Bone Gaps Using Auditory Steady State Responses. *Journal American Academy of Audiology*, 15:67-78.

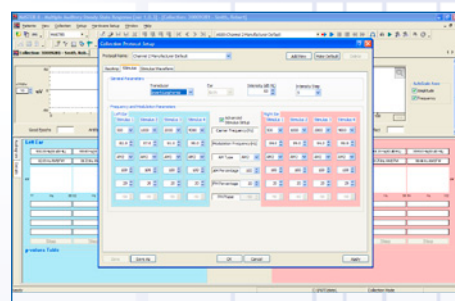
4. John M.S., Dimitrijevic A., & Picton T.W. (2002) Auditory Steady-State Responses to Exponential Modulation Envelopes. *Ear & Hearing* 23(2): 106-117.

5. Dimitrijevic, A., John M.S., van Roon, P., Purcell, D.W., Adamonis, J., Ostroff, J., Nedzelski, J.M., and Picton, T. W. (2002) Estimating the audiogram using multiple auditory steady-state responses. *Journal of the American Academy of Audiology*. 13(4):205-24.

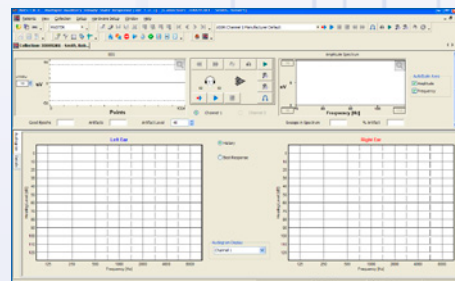
6. John M.S., Dimitrijevic A., & Picton T.W. (2001) Weighted averaging of steady-state responses. *Clinical Neurophysiology* 112:555-562.



Create your own protocols & sequences



View data details during collection & stop individual frequencies when response significance is achieved



View simple "audiogram" display during collection

Why Do Professionals Choose Bio-logic M•A•S•T•E•R II?

Validation of M•A•S•T•E•R II technology by peer-reviewed research publications

M•A•S•T•E•R II was developed in cooperation with Sasha John, Ph.D., Terence Picton, M.D., Ph.D. and additional researchers at the Rotman Research Institute of Baycrest Centre, Toronto, Ontario. The research validating the M•A•S•T•E•R II technology, from facilities worldwide, is available at www.mastersystem.ca.

Exponential Modulation

This stimulus option enhances the response amplitude at low (500 Hz) and high (4000 Hz) frequencies so that responses can be obtained closer to threshold⁴.

F-Ratio

The most accurate Auditory Steady State Response (ASSR) method of response detection to assist in predicting behavioral audiometric thresholds even for normal hearing and mild hearing loss⁵.

Weighted Averaging

Improves data collection accuracy and reduces test time⁶.



User Defined Averaging Time

M•A•S•T•E•R II allows you to use your clinical judgment to determine the averaging time, shorter for severe to profound losses and longer for mild and moderate losses⁵.

Calculation of Noise Floor & Response Amplitude

Monitoring the noise floor and amplitude per ear and per frequency assists you in determining if continued averaging is needed in order to obtain a response, therefore reducing test time and increasing the ability to obtain true thresholds.

Bio-logic[®] *Hearing Diagnostic Solutions*

*The Bio-logic Navigator Pro Family of Products**

*AEP – standard auditory evoked potentials
including ABR, ECochG, MLR, ALR, P300 & EABR*

*Scout[®] – Full range of OAE test capability
including DPOAE, TEOAE & SOAE*

*ABaer[®] – Newborn hearing screening system
including ABR, DPOAE & TEOAE*

*MASTER[®] II – Multiple Steady-State Evoked
Response (ASSR) technology*

*ENoG – External SEP Stimulator option supports
Electroneuronography*

*CHAMP[®] – Cochlear Hydrops Analysis Masking
Procedure*

*VEMP – EMG Rectification for Vestibular Evoked
Myogenic Potential Test*

**All products not available in all areas.*

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