



The practical, flexible choice for audiologists and ENT doctors

The MADSEN Octavus is a PC-based system for brainstem evoked response audiometry (BERA), and consists of a compact and elegant hardware unit, Windows-based software and accessories. Designed for objective evaluation of the auditory function, this user-friendly system combines more than two decades of Hortmann know-how in the field of brainstem evoked response audiometry with Madsen's advanced technology and many years' experience in providing computer-based solutions for audiology. One concrete example of this synergy is the low-noise biosignal amplifier that can be set to a very high amplification rate - a feature which makes Octavus a very sensitive tool for threshold testing.

Flexible, intuitive software

The user-friendly Octavus software runs under all recent Windows® versions and is very easy and intuitive to use – comprehensive online help is always just a click away. A colored two-buffer correlation bar is provided to help you achieve a high degree of interpretation reliability – and interpretation can be performed during the measurement itself, thus saving valuable time. Traces may be superimposed, a feature that facilitates interpretation and optimizes the use of two-channel technology. Finally, auto sequences can be set up to optimize workflows.

PC-based & modular for maximum flexibility

Windows XP/2000 compatible

Today's Patients feature for quick access to patient data

Compact & easily portable

Ideal for mobile neonatal auditory screening

Online interpretation saves time

One or two channel system

Superimposable traces facilitate interpretation



Simple connection to any PC

The Octavus hardware unit can be easily connected to an IBM® or compatible PC via either a serial COM port or a USB connector - no hardware installation inside the PC is required. This configuration allows the Octavus to be connected to a notebook PC for a portable and silent solution.

Flexible hardware and transducers

Great attention has been given to developing safe, reliable hardware and robust yet inexpensive electrodes. Output options include Holmco, HB-7 or ME70 headphones, and E-A-RTONE® 3A insert earphones. Being modular, Octavus is available in both one or two-channel versions, and the former can be easily upgraded simply by adding software.



Data management **Hearing assessment** Fitting & Testing Balance assessment

Technical specifications:

Stimulation output and transducers

Stimulus	Click
Stimulation level	0 – 100 dB HL, adjustable in 10 dB increments
Masking (contralateral)	Adjustable in 10 dB increments, lockable
Stimulation rate	8, 16, 20, 24, 32 Hz; preset: 20 Hz
Outputs	Headphones (Holmco 95-01, HB-7 or ME70) Insert earphone (E-A-RTONE 3A)

Bio-signal input

Amplification	93.5 – 114.5 dB, adjustable in 1.5 dB increments
Number of measuring channels	1-channel or 2-channel options

Scanning rate

/ time resolution	40 kHz / 0.025 msec.
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Common-mode

rejection	110 dB (lin. 316,000)
Hardware filter	High-pass: 160 Hz, low-pass: 4 kHz
Software filter	Adjustable, standard setting: 160/1600 Hz
Notch filter	50 Hz
Input impedance	30 mOhm

Electrode impedance

test	Software-controlled
Artefact control	Integrated

General information

Connection to the PC	Serial or via RS232/USB adapter
Power consumption	60 VA
Power supply	AC 50–60 Hz, 100 – 120 V / 200 – 240 V
Dimensions	33.5 x 32.0 x 6.0 cm, 13.2" x 12.6" x 2.4"
Weight	Approx. 2.5 kg, 5.5 lbs.
Safety	Complies with EN 60601-1, Type BF
Protection class	Class I
Classification according MDD	Class IIa

GN Otometrics

Copenhagen-based GN Otometrics is the world's leading manufacturer of hearing and balance instrumentation and software, including solutions for infant screening applications, audiologic diagnostics, and office management software, to balance testing and hearing instrument fitting.



Helping you make the right decision