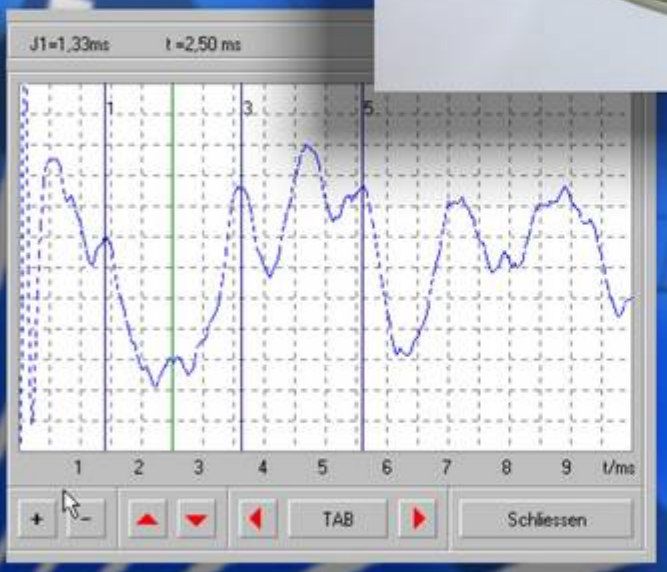
HOMOTH

MEDIZINELEKTRONIK GMBH & CO KG

BERA 4000
brainstem-audiometry



we are one of the
leading companies
in the field of ENT diagnostics
- worldwide -

BERA 4000

The HOMOTH ABR / BERA- module is a real time brainstem audiometer. It is developed considering the latest knowledge of the ENT research.

By use of most modern processors, a wide range of possibilities is opened. It is a system lasting into the future for a lot of years, because all changes in diagnostic demands can be loaded as an update or upgrade via software into the system.

The software contains pre-selected standard programs, to reduce the operation of the system onto a few key-moves. Beside this, it is possible to create storable measuring programs with individual parameter selections. Further more, the EXPERT-MODE allows to create and change settings during measurement sessions and adapt to changing situations or patients condition.

16 curves can be measured per examination and stored into a temporary memory. The evaluation / analysis can be done afterwards at a later time. All curves are presented high resolution at the colour screen of PC. The program is menu controlled and fitted with a online help.

The brainstem system is expandable with electronystagmografy (ENG/VNG) and/or otoacoustic emissions (OAE).

Technical data

system:	micro processor controlled with measurement of electrodes impedance
system requirements:	Pentium PC min. 500 MHz, USB 2.0 port, Window 98, ME, 2000, XP
standards:	EN 60601-1 / 1-1 / 1-2 and AGERA rules
isolation:	galvanic separated electrodes
stimulus:	1. click 50 - 500 us
	2. sinus (in preparation)
polarity:	positive, negative and alternating
intensity:	0 - 110 dB SPL
rate:	1 - 50 per sec in 0,1 steps
masking:	0 - 80 dB white noise
measurement:	1 channel (ipsi / contra)
EEG amplifier	80 dB / input imp. > 48 MOhm / automatic or manual gain selection
converter:	A/D 12 bit / 100 kHz
averager:	max 10.000 sweeps
analysis time:	10 ms (early potentials)
artefacts:	online elimination (time and amplitude)
filters:	1. highpass 100 - 150 - 200 - 300 Hz
	2. lowpass 1 - 2 - 3 - 8 kHz
	3. software filters
	4. 50 Hz notch filter
results:	1. curve diagrams 8x right und 8x left
	2. latency diagram
	3. direct comparison right / left
dimensions	W = 32 / D = 27 / H = 7,5 cm
weight	1,8 Kg
measure cable, lenght	275 cm + 60 cm electrodes cable
power consumption	13,2 V 15 W
accessories:	1 headphone DT 48 A
	1 measure cable with 3 electrode clamps, red - yellow - black
	1 bag standard electrodes at 50 pieces
	1 power pack
	1 set cables
	1 program CD
	1 instruction manual

CE 0124

for technical modifications all rights reserved

Rev.04 / Stand 01-2007

HOMOTH Medizinelektronik GmbH & Co KG, Baumacker 1a, 22523 Hamburg
Tel.: ..49..40-54 72 65 0 Fax: ..49..40-54 72 65 50
Internet //www.homoth.de e-mail: info@homoth.de