Signal quality check by signal quality bar (EEG) AABR-Algorithm

Stimulus levels 35 dBHL
Stimulus rate 93/s

Standards IEC 601-1, BF according to medical directive

Display Normal mode test result

Stimulus type CE-Chirp stimulus™

Screening

Number of channels 1

Electrodes

Speaker

Sensitivity > 99,9 %

Power supply

Weight

Environmental Conditions

Dimensions

Power Consumption

Instrument

Preamplifier

Measuring Probe

MB 11 Box

Electrode Gel

Software

Carrying Case

Cradle

USB Cable

Official Philippine Distributor:

MB 11 BERAphone 701 174

tomorrow’s medical devices

Tel: (02) 636-3580 • Fax: (02) 636-7542

Wellness

Accessories

Standard

Optional

Specifications

Electrode Gel, Bottle 250 ml 801 086

(1 set of 3 pcs.) 894 170

Gel Protection for Electrodes

Stainless Steel Electrodes (1 pc.) 894 132

for Pre-Matures (1 pc.) 894 153

Label Printer 801 793

Stainless Steel Electrodes

for impedance test.

gel protectors

Reusable, stainless-steel electrodes with...

Maximum humidity 90% (storage)

+ 5 ... + 50 C / + 41 ... + 122° F (storage)

W x D x H: 12 x 9 x 3 cm

165 g

300g

Integrated, 87 dB Amplification (23.000x)

max. 400 mA

Optional Accessories

Item No.

OAE Module

MAICO Database

for External Probe

Replacement Probe Tips

Operating Manual

Ear Tip Set (80 pcs)

Device with 4 AA Batteries

Microphone system noise -15 dBSPL @ 1 kHz (1 Hz BW)

Maximum output 90 dB SPL

Stimulus intensity range 40 to 65 dB SPL

Display LCD-display 4 lines x 10 characters

Probe weight 300 g (including batteries)

Battery life typical 300 tests

Power supply 6 V- batteries - four AA cells

Stimulus sampling rate 31.25 Hz

Operating noise < 50 dB SPL

Speed > 10 lines / second

Printer type Thermal dot matrix

Printer (optional)

PC-interface serial RS 232

Standards IEC 60601-1 according to medical device

Directive 93/42/EEC FDA 510 (k) #980533 23.3.1998,

93/42/EEC

DPOAE -

DPOAE + TEOAE Combo

Optional Software

Accessories

Standard

Optional

Specifications

Frequency range 2 to 5 kHz (DPOAE), 1.5 to 4 kHz (TEOAE)

Probe

Microphone system noise  -15 dBSPL @ 1 kHz (1 Hz BW)

Maximum output 90 dB SPL

Stimulus intensity range 40 to 65 dB SPL

Display

Probe weight 28 g

Battery life minimum 1000 test per charge

Power supply Lithium-Ion rechargeable battery

Printer weight 197 g

General

Printed with CE mark according to medical device directive 93/40/EEC (11/03/98)

Conclusion

Standard Accessories

Optional Accessories

Fitted with rechargeable battery

Set tip for TEOAE

Facilitates probe recording

Workshop

including calibration

Power supply

OAE Test System

Otoacoustic Emission Technology

OAE Test System

Otodynamic Emission Technology

Newborn Hearing Screening

Pursuant of Philippine Republic Act (R.A.) 9709
and Department of Health A.O. 2010-0020

Innovation,
Continuity,
Reliability.

www.maico.biz

Berlin, Germany
Why screen via AABR method?

Screening with auditory brainstem response is the GOLD standard up to the brainstem. It also detects auditory neuropathy and other neural defects which cannot be found with OAE measurements.

With the MB 11BERAphone® you get automatic ABR at the speed and cost of OAE measurement and with very high sensitivity and specificity.

Why Use Otoacoustic Emissions (OAEs)?

Otoacoustic emissions are sounds that are produced by the cochlea (outer hair cells) and can be measured in the ear canal. When sound passing through the ear canal reaches the cochlea, the vibration stimulates thousands of tiny hair cells. This creates a byproduct that can be detected and measured. OAEs only occur in a normal cochlea with normal hearing sensitivity. If there is damage to the outer hair cells, which produces hearing loss, then OAEs will not be present. In general, OAEs will be present if hearing is at 30 dB or better. PASS test results mean OAEs were detected. If there is damage to the outer hair cells producing a mild hearing loss OAEs may not be present. The test result is REFER and the patient may be at risk for possible communication handicaps and can benefit from further diagnostic assessment.

“...it´s so easy...!”

For specifications, accessories and optional software see back page.

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User-friendly software

• Automatic, Reliable ABR-screening Results
• Innovative BERAphone design given cost saving integrated electrodes
• CE-Chirp-Stimulus / Impedance Check for fast results
• Automatic Impedance Check indicates impedance conditions
• PC Connectivity for Power / Data Transfer

OAE-Software

• Test both ears in less than a minute
• Results are displayed as PASS or REFER
• Test is completely objective
• With integrated thermal printer; prints results in 2-3 seconds
• Accurate results
• Can come in DPOAE, TEOAE or combo versions

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