Technical Data MB 11

MB 11 Box 120 mm x 93 mm x 30 mm / 142 g Dimensions / Weight

PC interface USB

5V DC max. 400 mA via USB Power supply

ABR

CE-Chirp® Stimuli ~90 /s Stimulus rate Stimulus level 35 dB nHL Level range 25 dB nHL to 45 dB nHL

Automatic pre-test Impedance test Test duration 16 s to 180 s Artifact rejection level 80 μV to 120 μV



Classic Preamplifier

monaural/binaural Test mode

3 electrode cables (black, yellow and white) One Channel

Gain 69.8 dB CMR Ratio >110 dB at 80 Hz

100 mm x 100 mm x 22 mm / 100 g Dimensions / Weight

Transducer IP30 with EarCup™ adapter

MB 11 Software

Display Test result (Pass, Refer or Incomplete), test

diagram with line towards Pass, signal quality and EEG, electrode positions and impedance

English, Chinese, French, German, Hungarian, Languages

Japanese, Polish, Russian, Spanish, Turkish

Standards

ABR IEC 60645-7, Type 2 Safety IEC 60601-1, Type BF EMC IEC 60601-1-2

CE 0123 according to Medical Device Regulation

(EU) 2017/745, Class IIa

Computer Requirements

CPU Intel Core i5, i7 or equivalent

RAM Minimum 8 GB

Hard Disk Minimum 10 GB free disk space

Interface 1 free USB port

Minimum resolution 1360 x 786 Display

Operating System Windows 11 32/64 bit

(no 'N' Edition)

Windows 10 Pro, Enterprise 32/64-bit

BERAphone®

Test mode monaural

One Channel 3 reusable stainless-steel electrodes

Gain 69.3 dB

CMR Ratio >110 dB at 80 Hz

Transducer Integrated dynamic speaker

160 mm x 87 mm x 60 mm / 285 g Dimensions / Weight

Cradle

119 mm x 160 mm x 74 mm / 270 g Dimensions / Weight

Standard Components

MB 11 BERAphone®





BERAphone® with cradle



Electrode gel

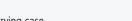
MB 11 Box

- Carrying case
- Set of electrodes

USB cable

 Label printer Cart solution

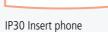
Sanibel



PC software

Optional Component

MB 11 Box





- Carrying case
- PC software

MB 11 Classic





Preamplifier



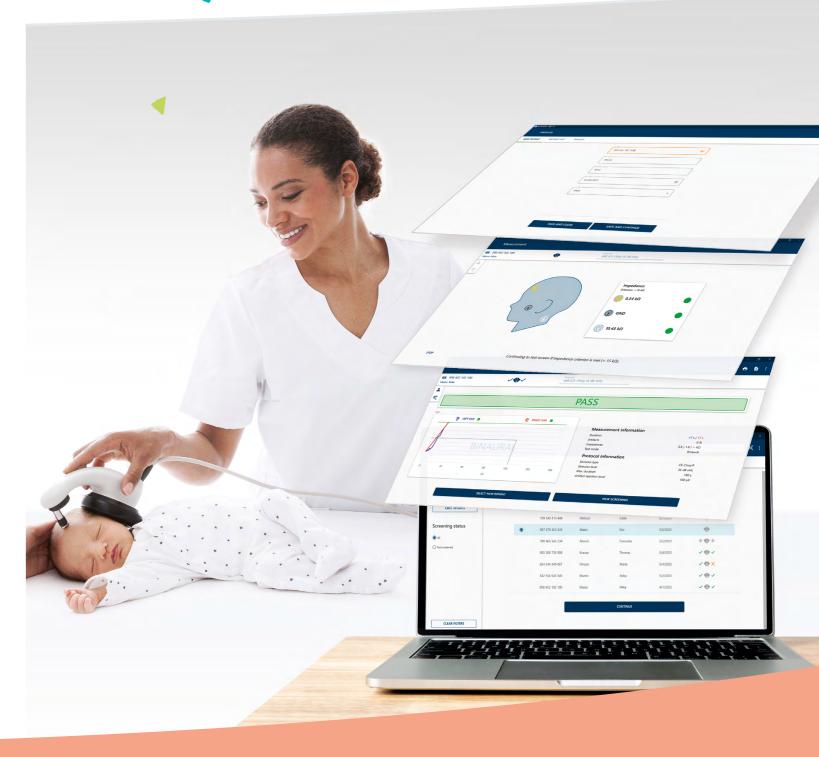
Set of Electrodes and Infant EarCup™

Electrode cables

- Set of electrodes and Infant EarCup™
- Nuprep® preparation gel



MAICO Sanibel Only Sanibel disposables are designed to er reliable test results with MAICO products.



MAICO

MAICO

MAICO Diagnostics GmbH

Sickingenstr. 70 -71 · 10553 Berlin · Germany Tel.: +49 30 / 70 71 46-50 · Fax: +49 30 / 70 71 46-99 sales@maico.biz · www.maico.biz

We highly recommend to use Sanibel disposables in order to guarantee optimal test results.



Find your local distributor.



MB 11

PC based AABR Screening

MB 11 BERAphone® / MB 11 Classic

An Auditory Brainstem Response (ABR) test measures the neural activity of a large portion of the auditory pathway. ABR recording can be applied to identify hearing problems which can be related to inner ear or subcortical auditory structures. Electrodes pick up the electrical activity from surface of the skin, including the activity of the brain, muscle activities (myogenic noise) and electromagnetic interferences. Screening ABR devices analyze these activities automatically by looking for specific patterns, which indicate a normal transduction of sounds into electrical activity and its processing by the auditory brainstem. An automated response detection algorithm provides a simple Pass/Refer outcome.

Newborn Hearing Screening

The two methods considered suitable for newborn hearing screening are OAE (otoacoustic emissions) and AABR (automated auditory brainstem

AABR testing is acknowledged as the superior technique because of a typically higher specificity, meaning that fewer babies with normal hearing will be referred for further evaluation. It can detect hearing problems caused by conditions in the auditory nervous system whereas OAE only can detect cochlear hearing loss. AABR is particularly recommended for babies with higher risk for hearing loss.

Powerful Automated ABR for Accurate Results

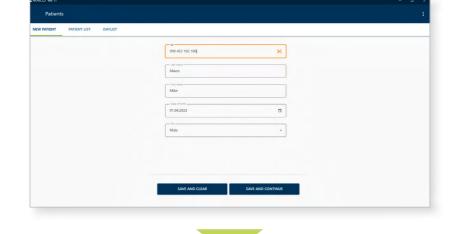
The MB 11 makes use of our unique CE-Chirp® stimulus and a powerful detection algorithm. Together, they achieve accurate "pass" and "refer" results within seconds. The patented CE-Chirp® stimulates all regions of the cochlea at the same time and thus generates a much larger response - for faster results than a standard click. This leads to very reliable results under normal nursery conditions.

CE-Chirp® inside



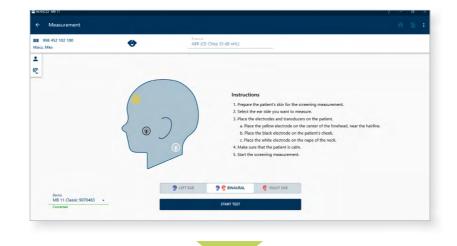
NEW Intuitive PC Software

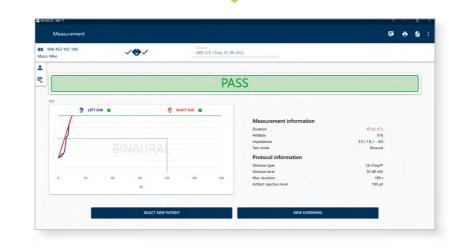
With the MB 11 software, you play it safe. It guides you through the entire screening process and provides you with all the information you need.



The dedicated preparation screen shows you what needs to be considered for a successful hearing screening. The EEG signal and noise level is displayed all through the test. Whenever an electrode loses contact to skin you get informed.

After the quick screening test, the result is immediately displayed as a clearly interpretable "pass" or "refer" result. You can then save the test report as a PDF or print it. The software offers various exporting options for tracking and reporting purposes.





Meet the new MB 11 software. For a more efficient screening process, less work and more reliable test results.



MB 11 Versions

Choose between our Unique MB 11 BERAphone® or MB 11 Classic with EarCup™

The MB 11 BERAphone® stands for innovation in Newborn Hearing Screening — the unique, patented ABR system offers a fast and automated hearing test for newborns without the use of adhesive disposables. To grant babies the comfort of disposable-free ABR screening, our BERAphone® comes with integrated electrodes and a speaker in a single unit.

Automated ABR tests with the MAICO MB 11 can also be conducted using Infant EarCup™ and Snap Electrodes. The Sanibel Infant EarCup™ is a high quality, low cost over-the-ear disposable, ideal for testing both ears at the same time. The design helps to reduce the effects of ambient noise during testing.



AABR with Reusable Electrodes

- Integrated electrodes and transducer to save costs for disposables
- Eco friendly
- Comfortable hearing screening for the baby



AABR with EarCup™

- Self-adhesive electrodes
- Binaural ABR screening
- High quality Sanibel Infant EarCup™ and electrodes

MB 11 Features & Benefits

The MB 11 is a PC based ABR screening device, which can be fully controlled by the dedicated user-friendly MB 11 software. It allows you to contol the measurement, view results and manage patient data in one application. You always have the patients' test history available and can print results directly.

Features at a glance

- Fast and automated ABR screening with CE-Chirp® stimulus
- Easy to use PC software
- Automatic impedance test to ensure good test conditions
- Powerful response detection algorithms for short test duration
- ABR transducer choices
- Unique eco friendly BERAphone® which eliminates the need for disposables
- Simple Pass/Refer outcome





