

Binaural Automatic ABR Screening with MAICO MB 11 Standard



- Fast and ABR-screening with CE-Chirp™ Stimulus
- Binaural, simultaneous screening
- Fast Steady State Algorithm determining "PASS" or "REFER" result
- Automatic Impedance Check ensuring good testing conditions
- Automatic Data export for easy and quality tracking
- USB connection for power supply and data transfer
- "Follow Up" with Standard ABR and Time Step Stimulus

MAICO MB 11 Standard - Excellence in Newborn Hearing Screening

Hearing Screening within seconds

The MAICO MB 11 Standard offers fast automatic ABR screening tests and follow up measurements. It is especially designed for Newborn Hearing Screening. Due to the flexible electrodes it can also be used with older children or adults.

Screening with the new patented CE-Chirp™

CE Chirp™ stimulates all regions of the cochlea simultaneously thus generating much higher responses and faster results compared to a standard click. This leads to highly reliable results under normal nursery conditions. With the Fast Steady State Algorithm, the measurement is easy to perform with fast, reliable results. If a response at 35 dB_{HL} is detected and verified, the test result is PASS.

Binaural, Simultaneous Screening

A special advantage of the MB 11 Standard is the opportunity for fast binaural ABR screening tests with only three electrodes in 20 seconds, thus shortening total screening time.

Automatic Impedance Check

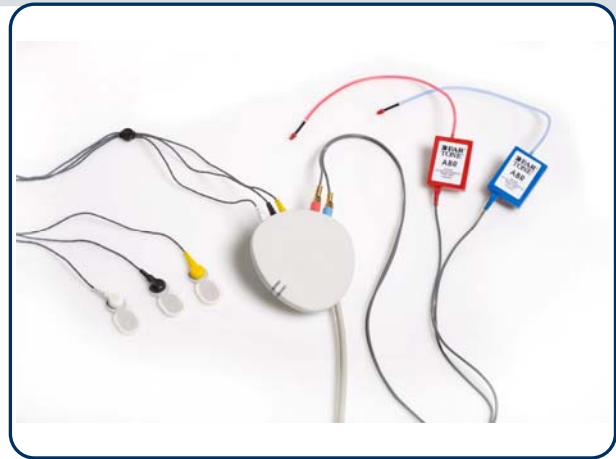
EEG measurements require low electrode impedance (skin to electrode resistance). The integrated automatic impedance check ensures good testing conditions at all time.

Integrated tracking and data transfer

The software offers an automatic data-exporting function for transmission of patient and test data for storing and tracking.

Follow Up Measurements (Monaural)

After a REFER result, follow-up actions can be carried out. Standard ABR measurement allows manual visualization of wave V, whereas Time Step Stimulus detects hearing threshold in one quick step by delivering six different click intensities at once.



MB 11 Standard

Technical Data

Number of channels: 1 (2 stimulus channels)

Screening

Stimulus type: CE-Chirp stimulus™

Stimulus rate: 93/s

Stimulus levels: 35 dB_{HL}

Time Step Stimulus

Stimulus type: Click

ABR

Stimulus type: Click

Stimulus rate: 14/s

Stimulus level: 0 ... 70 dB_{HL}

Transducers: Insertphone EARTONE 3A

EEG Amplifier Amplification: 87 dB (23.000 times)

Display: Normal mode: test result (PASS/REFER/ABORT), test diagram, signal quality display, traffic light for impedance test.

Signal quality check: With traffic light display or EEG

AABR-Algorithm: patented FSS-test (fast steady state)

Sensitivity: > 99,9 %

Specificity: > 96,7 %

Standards: IEC 601-1, BF according to medical directive 93/42/EEC



Power supply: USB-Port 5V DC max. 400 mA

Standard Accessories: Insertphone EARTONE 3A, electrode cables, 1 set electrodes (25 pieces), MB 11 box, carrying case, software-CD, USB cable, user manual

Computer requirements: Intel Pentium III compatible 800 MHz, or better, min. 256 MB RAM, 2 GB Harddisk, 800x600 colour display or monitor, WINDOWS XP SP2, Windows 2000 SP4, Power supply with ground connection (3-pin) or battery

Specifications are subject to change without notice



MAICO Diagnostic GmbH
Salzufer 13/14, 10587 Berlin / Germany
Tel.: + 49 30/70 71 46 50
Fax: + 49 30/70 71 46 99

e-mail: export@maico.biz
Internet: www.maico.biz