

## The first ABR Screener without Disposables MAICO MB 11 BERaphone®



- Fast and automatic ABR-screening, reliable results within seconds
- Unique BERaphone® with integrated electrodes saves costs for disposables
- CE-Chirp-Stimulus ensures fast results
- Automatic Impedance Check indicates impedance conditions
- Export function of test data for quality ensuring tracking
- Stimulation level at 35 dB<sub>HL</sub>
- USB connection for power supply and data transfer
- Optional "Follow Up" with Standard ABR and Time Step Stimulus

# MAICO MB 11 BERAphone® - Excellence in Newborn Hearing Screening

## Screening within a few seconds

The MAICO MB 11 BERAphone® offers a fast automatic ABR screening test up to the brainstem for newborns and young children.

The measurement is very easy using the patented BERAphone® technology. The BERAphone® is simply placed onto the babies head, after just some application of electrode gel. Within a few seconds you will get the information if the baby is hearing well. If a response at 35 dB<sub>HL</sub> is detected and verified, the test result is PASS.

When performing ABR measurements - in contrary to OAE measurements - you also get information about possible hearing defects located behind the inner ear, such as auditory neuropathy (AN).

## The new patented CE-Chirp™

Stimulates all regions of the cochlea at the same time and thus generates much higher responses and consequently faster results than a standard click. This leads to very reliable results under normal noisy conditions.

## Automatic impedance check

Preferably, EEG measurements require as good a conduction as possible between the patient's skin and the electrode. The integrated automatic impedance check displays impedance testing conditions.

## Integrated tracking and data transfer

The software allows the user to export patient and test data for documentation and tracking.

## MAICO BERAphone®

The patented BERAphone® includes the speaker, the electronic and the measuring electrodes in one unit. The power supply and the data transfer are made through USB connection.

## Follow Up (Option)

For a "Follow Up" after a REFER result, a "standard" ABR measurement is available for visual verification by an expert. For a fast threshold measurement the integrated Time Step Stimulus test allows to test six different click intensities in one measurement. By using this test the threshold becomes apparent at one glance.

## No disposable costs – highly cost effective measurement

As the stainless steel electrodes are integrated in the BERAphone® no application of disposable electrodes is necessary. Thus no disposable costs arise and the measurement is highly cost effective.



MB 11 BERAphone® and cradle

## Technical Data

Number of channels: 1

### Screening

Stimulus type: CE-Chirp stimulus™

Stimulus rate: 93/s

Stimulus levels: 35 dB<sub>HL</sub>

Time Step Stimulus (opt) Click

### ABR (option):

Stimulus type: Click

Stimulus rate: 14/s

Stimulus level: 0 ... 70 dB<sub>HL</sub>

Transducers: Dynamic transducer (8Ω) built-in in MAICO BERAphone® measuring probe

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: By signal quality bar (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: MAICO BERAphone® measuring probe, MB 11 box, carrying case, software-CD, electrode gel, 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)



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