

# The "golden standard" for neonatal screening **MAICO MB 11 with BERAphone®**



## **The NEW Generation**

- Fast automatic test with reliable **ABR** results in approx. 40 seconds
- Ergonomic, patented **BERAphone®** with integrated phone and electrodes
- New ultra light and portable with included leather bag
- High specificity (typ. > 98 %) and very high sensitivity ( $\geq 99,99$  %)
- Minimal preparation time - no electrode sticking
- New with USB interface - no extra power supply required
- Easy understandable continuous quality control of test signal
- RETEST with integrated Time-Step-Stimulus and/or Standard **ABR**



# MAICO MB 11 with BERAphone® - the simple convincing solution for a great challenge

## Fast automatic ABR threshold evaluation

The **MAICO MB 11** offers an easy to use and fast objective automatic hearing test for newborn babies and children up to six years in clinics and ENT offices. The test takes only a few seconds using the patented **BERAphone®** technology and the new patented **Fast Steady State (FSS)** algorithm. If a response at 40 dB<sub>HL</sub> is detected and verified, the test result is PASS. In case of a REFER result a RETEST by experts becomes necessary.

## Easy handling - no electrode sticking

Due to the new small size and ultra-light weight the **MB 11** is a perfect screening device for numerous test situations.

As in a telephone headset we have integrated in the patented **MAICO BERAphone®** electrodes and a speaker. Simply apply some gel to the baby's skin as well as to the electrodes and start the test with the **BERAphone®**. An integrated light in the **BERAphone®** indicates when the signal quality is sufficient enough. With the USB-Interface every PC can be easily connected to the **MB 11**, because the **MB 11** is powered by USB. No extended power supply is needed.

## Costs savings

The **MB 11** is highly cost effective as no disposable costs arise due to the newly developed and patented **BERAphone®** probe. The high specificity of the **FSS** reduces the cost of expensive diagnostic evaluations by specialists. The short test time allows efficient testing.

## Advanced tests as option

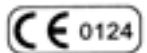
In addition to the very easy to use SCREENING, the **MB 11** offers optionally advanced displays and test possibilities for the specialist. Additional information during a screening test like the "real" EEG or an AEP-diagram are shown. For the RETEST after a REFER result, a Standard ABR measurement is always 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.



**MB 11 with BERAphone® and cradle**

### Technical Data

Number of channels:	1
Stimulus type:	Click or step stimulus signal
Stimulus rate:	Screening 92,5/s, Standard ABR 20,3/s
Stimulus levels:	Screening 40 dB <sub>HL</sub> , Standard 0... 70 dB <sub>HL</sub>
Transducers:	Dynamic transducer (8 Ω) built-in in MAICO <b>BERAphone®</b> measuring probe
EEG Amplifier Amplification:	87 dB (23.000)
Display:	Normal mode: test result (PASS/REFER), test diagram, signal quality bar. Advanced mode (option) in addition to normal mode: EEG, number of test sweeps and artifacts, quality and curve of AEP.
Signal quality check:	By signal quality bar (EEG)
AABR-Algorithm:	patented FSS-test (fast steady state)
Sensitivity:	≥ 99,99%
Specificity:	> 98%
Standards:	IEC 601-1, BF according to medical directive 93/42/EEC
Power supply:	USB-Port 5V DC max. 400 mA
Standard Accessories:	MAICO <b>BERAphone®</b> measuring probe, MB 11 box, carrying case, software-CD, electrode gel, USB cable, user manual
Computer requirements:	Intel Pentium III compatible 700 MHz, or better, min. 128 MB RAM, 2 GB Harddisk, 800x600 colour display or monitor, WINDOWS XP SP1 or later, Windows 2000 SP4 or later



Specifications are subject to change without notice.



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