

The innovative system for objective audiometry
MAICO Diagnostic ABR MB 21



- Diagnostic dual channel ABR for all tests in the ENT-office and hospital
- Fast automatic AABR screening with the **BERAphone**® (optional)
- Integrated evaluation software with automatic Wave I, III, V detection
- Ergonomic and easy to operate for fast Diagnostic Tests
- Fast threshold investigation with Time Step Stimulus Test



MAICO Diagnostic ABR MB 21

The combined solution for Screening and Diagnostic ABR

Complete, dual channel ABR-DIAGNOSTIC

The **MAICO - ABR MB 21** enables brainstem audiometry with an especially comfortable user-friendly surface. It offers various adjustment options and a Gauss stimulation in range around 500 Hz. The data of the patient can be administrated easily and the curves can be evaluated manually and automatically. All diagnostic ABR tests can be performed also with masking or binaural.

Fast threshold measurement

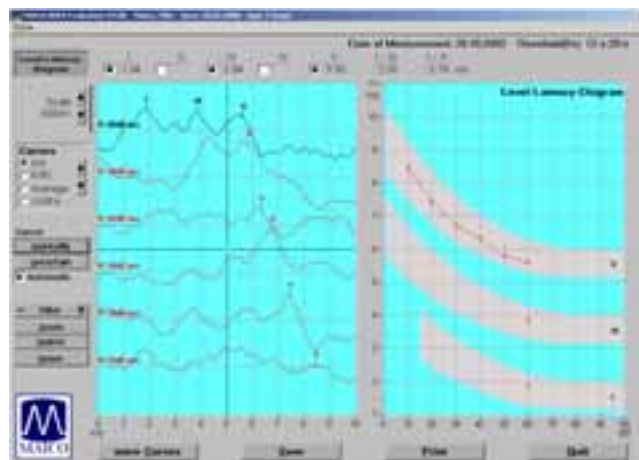
A further special feature of the **MB 21** is the time-step-stimulus, during which six different levels, e.g. 10-60 dB are tested simultaneously. As in this test only the wave 5 is evaluated it is especially suitable to determine the threshold of hearing. The test runs about 6 times faster than conventional tests.

Combined Screening and Diagnostic

The **MB 21** combines Screening (optional) and Diagnostic ABR in one instrument. This makes an immediate follow-up test possible and comfortable because no change of the instrument for the diagnostic test is necessary. The same instrument can be used cost effectively for screening and diagnostic purposes i.e. in the morning in the nursery for baby screening and in the afternoon in the ENT-department for diagnostic ABR.

Fast automatic AABR-SCREENING

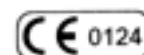
The **MAICO MB 21** offers optional an easy to use and fast objective automatic hearing test of new-born babies and children up to six years in clinics and ENT offices. The test takes only a few seconds using the patented **BERAphone**[®] technology and the new patented **Fast Steady State (FSS)** algorithm. If a response at 40 dB_{HL} is detected and verified, the test result is PASS. If not, a REFER result gives the advise to retest or refer to a "Follow Up" by experts.



Evaluation program with automatic wave detection

Technical data

Channels:	2
Signal presentation:	right, left and alternating
Test signal:	click, Gauss (low frequency tone burst)
Test sweep:	single click, 3-step- and 6-step quasi-simultaneous click, step stimulus sequence
Stimulus rate:	9/s or 20/s, time step sequence 7/s or 14/s
Stimulus level:	0 ... 100 dB _{HL} (headphone), 0 ... 70 dB _{HL} (optional BERAphone [®])
Masking:	white noise 0 ... 90 dB _{HL} (only headphone)
Number of summations:	2000 (2 x 1000 in A/B buffer)
Receiver:	TDH 39, optional BERAphone [®]
Preamplifier:	Diagnostic: external preamplifier Screening option: integrated in BERAphone [®]
EEG-gain:	86 dB (20.000)
Display:	Test results with actual EEG (count of measurements and artifacts, signal quality, status of test), ABR-curve and test result of screening (PASS / REFER)
Control of signal quality:	By online-EEG
Standards:	IEC 601-1, class 1, BF According to medical directive 93/42/EEC
Power supply:	Mains 100-240 V~, 50/60 Hz, app.. 25 VA
Standard accessories:	MB 21 box, PCMCIA card, external preamplifier, headphone TDH 39, diagnostic- and evaluation software, disposable electrodes, electrode cables, mains cable, ground cable, user manual
Computer requirements:	Intel Pentium III compatible or better, 32MB RAM minimum, 2 GB Harddisk, 1 free PCMCIA II - slot, 800x600 color display or monitor, WINDOWS 98, ME, 2000 or XP
Screening Option:	MAICO-BERAphone [®] , screening software, electrode gel, user manual



Specifications are subject to change without notice



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