

The new standard in portable audiometers

The MA 51 air, bone and speech audiometer



- Air, bone speech and freefield with built-in power amplifier
- Optional insert phone capabilities
- Tone, pulse, warble, masking and CD/tape/microphone input
- Lightweight - only 5,8 kg/12,8 lb., including all accessories
- Ergonomically designed case, soft handle for comfortable transport
- RS 232 serial PC interface with Noah software driver



For diagnostic, hearing aid fitting and ENT-office needsthe **MA 51** portable audiometer

Truly portable design

The new, ergonomical **MA 51** has a rugged, integral carrying case with ample storage for all accessories. The soft, comfortable handle and light weight - 5,8 kg/12,8 lb. including accessories - makes transporting the instrument easy. And, it takes less than one minute to open the front cover, connect to power and start to operate. A desktop version without the carrying case is optional.

Noteworthy features and benefits

Special functions like tracking make it easy to operate the instrument. The talk forward and optional talk back microphone allow easy communication with the patient. And inputs for the optional insert phones eliminate the need to recalibrate when switching between headphones and inserts.

Easy to operate with ergonomic design

The **MA 51** is fast and easy to operate. The unique detented intensity level control knob can be operated from the top or side. Locating the interrupt/presentation bars and frequency buttons adjacent to the intensity knob allows one handed control. Sensible keyboard layout with LED's for each function ensure error-free operation. The bright LED display shows frequency and intensity level settings, along with speech test scoring.

Automatic data transfer to PC

The **MA 51** has a standard RS 232 serial interface to automatically transfer test results to a connected PC. A software driver for the NOAH Audiometry and Hearing Aid Fitting program is available.

Options for special measurements:

The **MA 51** has an optional insert phone for advanced air conduction measurement.



MA 51 with accessories in integral carrying case

Technical data

Test signals	Pure-, pulsed-, warble-tone; narrow band-, speech-masking noise
Test frequencies	0,125; 0,25; 0,5; 0,75; 1; 1,5; 2; 3; 4; 6; 8 kHz
Level steps	5 dB, 2 dB noise free
Inputs	CD/tape, live speech microphone, patient microphone, patient response switch
Outputs	AC, BC, insert phone, freefield, monitor phone, electrical output
Functions	Tracking
Standards	IEC 601-1, IEC 645- 1 class 2, IEC 645-2 according to medical directive 93/42/EEC
PC-interface	serial RS 232C, 9-pin connector, MAICO-protocol
Power supply	Mains 90-264 V~, 50/60 Hz, app. 25 VA
Dimensions/weight	W x D x H: 36 x 46 x 15 cm / 4,6 kg, with accessories 5,8 kg
Standard accessories	TDH 39, B 71, mains cable (2m), patient response switch, live speech microphone, audiogram paper
Air-conduction:	
Dynamic range	-10 to max. 120 dB _{HL}
Headphones	Telephonics TDH 39 (other types available)
Bone-conduction:	
Dynamic range	-10 to max. 70 dB _{HL}
Bone conductur	Radio Ear B 71 (other types available)
Masking signal	narrow band noise, speech masking noise
Freefield:	
Dynamic range	-10 to max 90 dB _H at 1m distance
Options:	
Insert phones	Ear tone 3A



Specifications are subject to change without notice



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