

The new solution for clinical audiometry

The MA 53 true two channel audiometer



- True two channels - for presentation of 2 different frequencies
- Air-, bone, speech and freefield with built-in power amplifier
- Tone, pulse, warble, masking and CD/tape/microphone input
- Clinical features such as SISI, DLI, ABLB and Carhart decay testing
- Complex mixing for presentation of test and masking signal to one ear
- Optional high tone audiometry for AC up to 16 kHz
- Optional insert phone capabilities

Clinical audiometry with advanced features with the MA 53 portable audiometer

Truly portable design

The ergonomical MA 53 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.

True two channels for clinical use

The MA 53s advanced technology means the operator can choose different test signals and frequencies for the two channels. Diagnostic tests such as SISI, DLI, ABLB, Carhart decay and Stenger can be performed. Complex mixing lets the operator route 2 different signals to the same ear. For example, speech in noise, competing message tests or tone on masking. Special functions like channel swap, tracking and interlock make operating the instrument easy.

Easy to operate with ergonomic design

The MA 53 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. The two channel keyboard layout with LEDs for each function ensure error-free operation. A large backlighted graphical LCD display shows all settings and test results. The optional talk back microphone and assistant phone makes communication with the patient or the patient assistant easy.

Automatic data transfer to PC

The MA 53 has a standard RS 232 serial interface to automatically transfer test results to a connected PC.


Options for special measurements

The MA 53 offers high tone audiometry with AC for advanced diagnostics.



MA 53 with accessories in integral carrying case

Technical data

True two channels	signal generation independent for each channel
Test signals	Pure, pulse, warble tone; narrow band, white, speech masking noise with two channels
Test frequencies	0,125; 0,25; 0,5; 0,75; 1; 1,5; 2; 3; 4; 6; 8; 12 kHz
Level steps	5 dB (2 dB, 1dB via setup) noise free
Inputs	CD/tape, stereo live speech microphones, external masking, patient microphone, patient response
Outputs	AC, insert phone, freefield, monitor phone, electrical output
Tests	SISI, DLI, ABLB, Langenbeck, Carhart, Stenger test
Functions	Channel swap, tracking, interlock, complex mixing
Standards	IEC 601-1, IEC 645-1 class 1, IEC 645-2 according to medical directive 93/42/EEC 
PC-interface	serial RS 232C, 9-pin connector, MAICO-protocol
Power supply	Mains 100-240 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
<u>Air-conduction:</u>	
Dynamic range	-10 to max. 120 dB _{HL}
Headphones	Telephonics TDH 39 (other types available)
<u>Bone-conduction:</u>	
Dynamic range	-10 to max. 70 dB _{HL}
Bone conductor	Radio Ear B 71 (other types available)
Masking signal	narrow band noise, speech masking noise
<u>Freefield:</u>	
Dynamic range	-10 to max 90 dB _{HL} at 1m distance, with optional active speakers up to 120 dB _{SPL}
Standard accessories	TDH 39, B 71, mains cable, patient response switch, live speech microphone, audiogram paper
<u>Options:</u>	
Optional accessories	Insert phone 5A or 3A, Loudspeakers (portable / standard / active), assistant phone, talk back microphone, monitor phone
High tone audiometry up to 16 kHz:	AC with Sennheiser HDA 200

Specifications are subject to change without notice



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