

Audiometer MA 33

PC controlled Audiometer

Digital Audiometer

The MA 33 is our small, fast and flexible PC audiometer for every occasion. The operation via USB connection to your PC or notebook is very easy and the MA 33 allows numerous possibilities to highly adopt the settings to your personal preferences and needs. The software offers various fast and reliable audiometry methods.

Whether you are an ENT doctor, general practitioner, audiologist, pediatrician or work in occupational health, the various test methods make the MA 33 the ideal device for you.

Automatic test – Hughson-Westlake

With the Hughson Westlake test the MA 33 can record an audiogram without any control of an examiner. Voice prompts will instruct the test person and wrong answers will be detected.

Features at a glance

- Air Conduction, Bone Conduction and Speech tests
- Pilot-Hearing test for children
- SISI, Stenger and automatic Hughson-Westlake tests available
- Intuitive handling of the clearly presented user interface
- Operate at your convenience with your mouse or keyboard
- Small, fast, flexible and highly mobile
- Display and store your results in one second
- Includes MAICO Patient Database
- Easily expandable to future developments



Technical Data

MA 33 SPECIFICATIONS

Test Signals	Sinus or warble tone (pulsed and continuous)
Test Frequencies Hz	125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000
Intensity	5 dB
Audiometer Class	Class 4 according to EN 60645-1
Masking	Narrow band noise masking, automatic or manually adjustable

AIR CONDUCTION

Test Intensity Tone	-10 dB _{HL} to 105 dB _{HL} (depending on frequency)
Test Intensity Speech	-10 dB _{HL} to 90 dB _{HL} (depending on frequency)
AC Headphone	DD45 optional: DD65 (for tone audiometry only), TDH39, Holmco 8103

kHz	0.125	0.25	0.5	0.75	1	1.5	2	3	4	6	8
DD45	65	85	100	105	105	105	105	105	100	95	90
DD65	60	60	85	90	105	95	100	105	95	85	90

BONE CONDUCTION

Test Intensity	-10 dB _{HL} to 70 dB _{HL} (depending on frequency)
BC Headphone	B 71

kHz	0.25	0.5	0.75	1	1.5	2	3	4	6
B71	30	60	65	70	70	70	70	70	50

SISI TEST

Modulation Test Signal	4,8/0,2 s ; 1 dB (test) 4,8/0,2 s ; 5 dB, 3 dB, 2 dB (preparation)
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PC REQUIREMENTS

Processor	Intel Dual Core 1.8 GHz
Memory	1GB RAM, 2 GB RAM (Windows 7)
Graphics	1280 x 1024 (opt.), 1024 x 768 (min)
USB	1 free USB port
Operating System	Windows XP Professional (SP 3 min) Windows 7, Prof. 32/64 Bit or Ultimate 32/64 Bit Windows 8, Prof. 32/64 Bit or Enterprise 32/64 Bit NET-Framework 3.5 SP 1

GENERAL

Power Supply	via USB
Size / Weight	15.4 cm x 10.3 cm x 2.7 cm / 300 g

STANDARD

EN 60 601-1	
EN 60 645-1	
Instrument complies with 93/42/EWG Directive for Medical Product Class II a	

ACCESSORIES PILOT TEST

Software package, picture board, roll of stickers, touchscreen (optional)

STANDARD COMPONENTS

MA 33 device; Air conduction headset DD45; Patient response switch;
Software; MAICO patient database; USB cable; Carrying case

Specifications are subject to change without notice.

Standard Components					
	MA 33 device	Headset DD45	Patient response switch	Carrying case	
	Optional Accessories				
		Headset Holmco 8103	Headset DD65	Headset TDH 39	

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