

# MA 33 PC Audiometer in 4 great versions



- Air Conduction, Bone Conduction and Speech tests
- 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

# MA 33

## PC Audiometer with AC, BC, HW, SISI & Speech

### Digital Audiometer

The MA 33 is our small, fast and flexible PC audiometer for every occasion. The software offers various fast and reliable audiometry methods to determine the different hearing impairments and their degrees (e. g. presbycusis, noise induced hearing loss, etc.). The operation via USB connection to your PC or notebook is very easy and the MA 33 allows numerous possibilities to highly adapt the settings to your personal preferences and needs. The program comes in four versions and can easily be mixed or upgraded with other modules at any time.

### MA 33 Basic

Offers fast and reliable screening and hearing threshold determination for both adults and children.

### MA 33 BC

Furthermore the MA 33 with bone conduction enables you to identify potential middle ear problems.

### MA 33 SISI

In addition to air and bone conduction, the MA 33 SISI shows whether the hearing impairment is cochlear or retro cochlear.

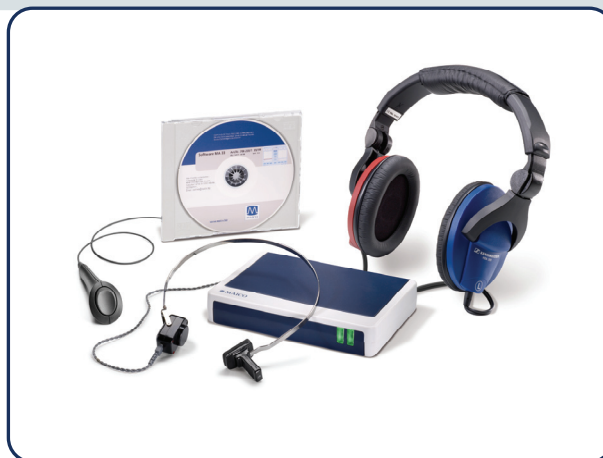
### MA 33 Speech

Speech tests can be done with recorded speech test material from various sources and via speech microphone.

### Automatic test – Hughson Westlake

With the HW 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.

These various versions make the MA 33 the ideal device for every ENT specialist, whether you are an ENT doctor, general practitioner, audiologist, pediatrician or work in occupational health.



MA 33 with headset HDA 280, B71, response button and software

### Technical Data

Test Signal	Pure, Pulse or Warble tone
Test Frequency kHz	0,125; 0,25; 0,5; 0,75; 1; 1,5; 2; 3; 4; 6; 8
Intensity	5 dB noise free
Audiometer Class	Class 4 according to EN 60645-1
Masking	narrow band noise masking, automatic or manually adjustable
Safety Standards	EN 60601-1, EN 60645-1 Instrument complies with 93/42/EWG Directive for Medical Product Class II a.



Standard Accessories MA 33 device; air conduction headphone DD45, patient response button, software, MAICO patient database, USB cable, bag

### Air Conduction

Test Intensity	-10 to 105 dB <sub>HL</sub> (depending on frequency)
AC Headphone	DD 45 (optional: HDA 280, TDH 39, Holmco 8103)

### Bone Conduction

MA 33 BC / MA 33 SISI / MA 33 Speech:

Test Intensity	-10 to 70 dB <sub>HL</sub> (depending on frequency)
BC Headphone	B 71

### 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) via USB
Power Supply	via USB
Size and Weight	W x D x H: 15,4 x 10,3 x 2,7cm / 300 g

PC Requirements	1.1 or 2.0 USB port, Windows XP SP2, Intel P4 > 1 GHz or compatible, 1 GB RAM
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Specifications are subject to change without notice



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