

TSM500

Combined audiometer and tympanometer



Audiometry and tympanometry in one simple workflow

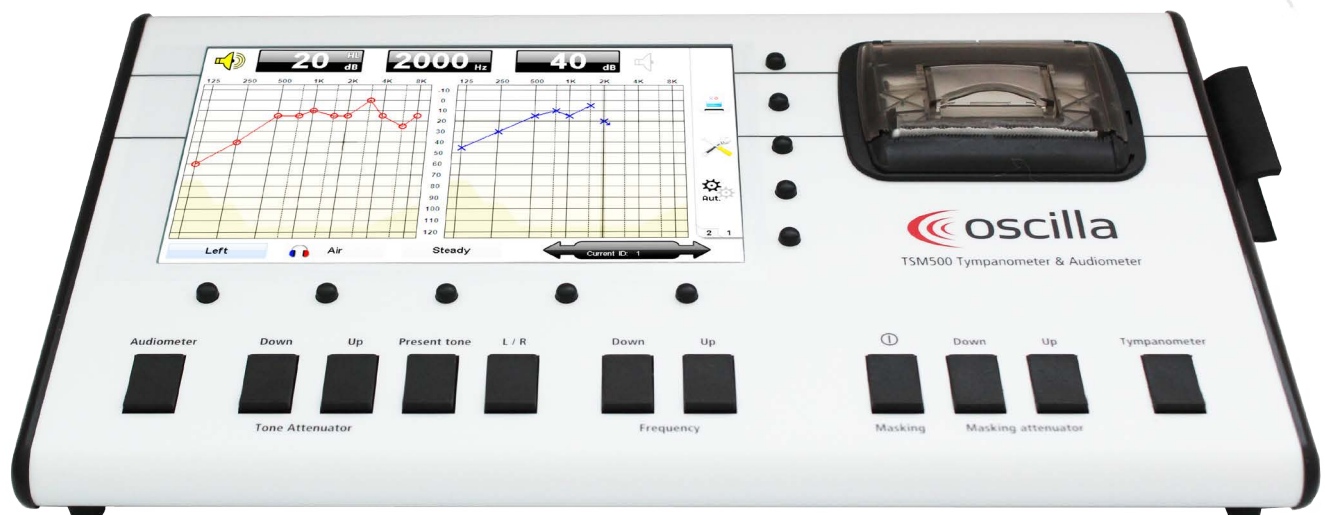
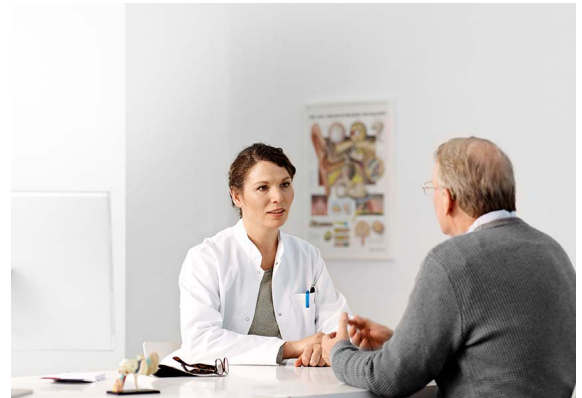
Optimise your workflow by combining audiometry and tympanometry with Oscilla® TSM500. Operation is swift and easy and the large color display lets you watch audiograms, and tympanograms update in real time. This provides you with a quick overview of your patient's hearing health.

Benefit from a wide range of testing options

- Manual and automatic pure tone tests via air and bone conduction
- Compliance curves
- Ipsi- and contralateral reflex tests

Compact design for maximum portability

The TSM500 is a smart solution for the clinic or on the go. With its solid aluminium casing, low weight and small footprint, it is robust and ready to withstand daily use and transportation.



A wide range of test options

Audiometry (stand-alone)

- Manual pure tone test
- 20 dB auto test
- 20 dB random auto test
- Hughson Westlake test

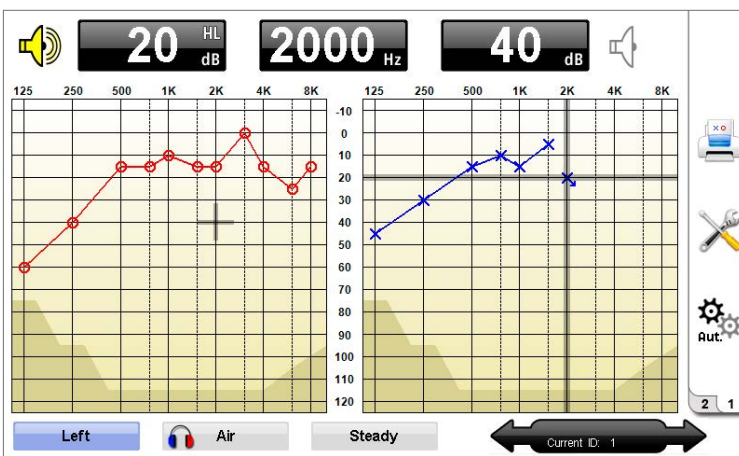
Additional audiometry tests in AudioConsole*

- xx dB auto test
- xx dB random auto test
- MCL
- UCL
- Weber test

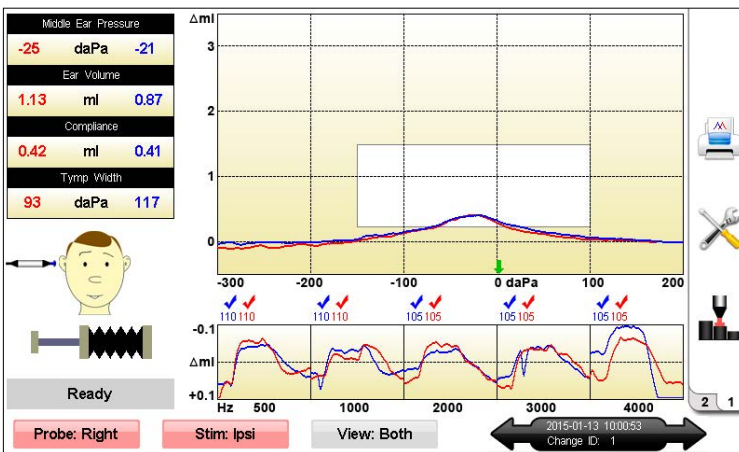
Tympanometry tests

- Pure tone
- Ipsilateral reflex test
- Contralateral reflex test

Large colour display



Watch audiograms update in real time on the large colour display



Watch tympanograms and reflex tests update in real time on the large colour display while the on-screen assistant guides you through the test procedure.

Cavity calibration

Place the probe in the calibration cavity as shown.

Hold it steady for a short while and press 'Next'.

5.96 ml
Level: 1719

5.0 ml 2.0 ml 0.5 ml

Restart Check Next

Guided probe calibration ensures accurate measurements.

DualControl gives you full flexibility in operation

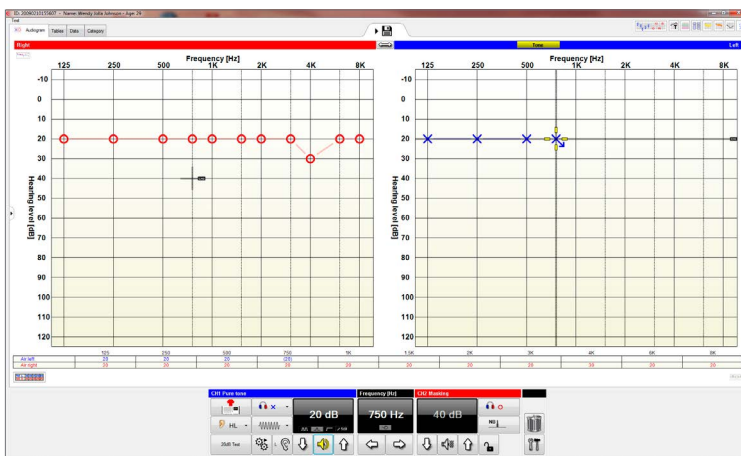


Oscilla® DualControl breaks down the barrier between stand-alone and PC-based operation. A simple plug & play solution that lets you switch modes of operation according to your needs. Operate your audiometer from your PC or use the front panel buttons and watch your audiograms update in real time on your screen.

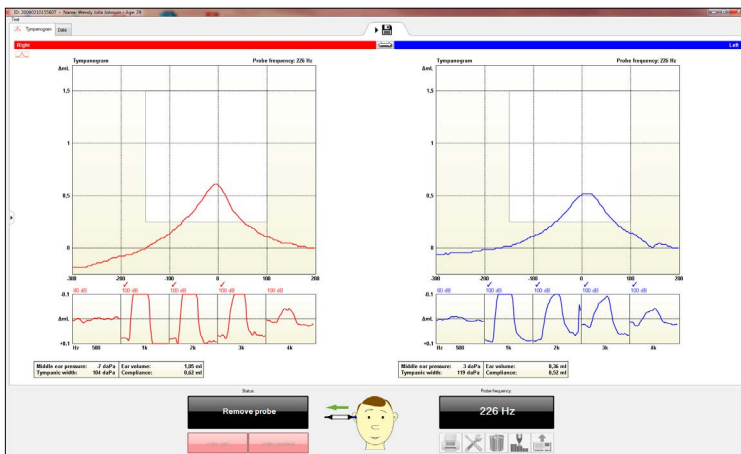
You get all the benefits from AudioConsole, including:

- Unlimited patient database and easy management of test results
- Additional tests
- Custom PDFs
- Integration with other patient management systems

Please note! In order to utilise the DualControl feature, you must purchase an AudioConsole license.



Perform manual and automatic pure tone tests with AudioConsole and watch audiograms update in real time.



Watch tympanograms and reflex tests update in real time on your PC screen while the on-screen assistant guides you through the procedure.

ID	Full name	Last name	Department	Date of birth	Eye colour
20002101472	Shirley	Johnson	Tyler-Residence	1/12/1955	Blue/Blue-Green
20002101363	Shirley	Johnson	Information	1/12/1955	The White House

Manage your patient information and test data easily and efficiently in the patient database.

TSM500

Specifications



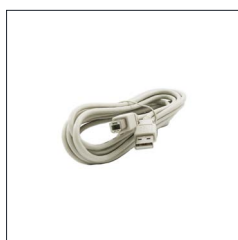
TSM500 standard package

- TSM500 device
- Probe 226 Hz
- Calibration cavities
- Peltor™ Headset fitted with TDH-39
- Wilfan contralateral headset fitted with TDH-39
- Patient responder
- Bone conductor (B71W)
- Eartip set
- Power supply
- User manual

Accessories and optional parts



Carrying bag
Transport the TSM500 safely with a handy carrying bag. A smart solution for traveling clinicians.



USB cable
USB cable 3 meters for connecting the TSM500 to Oscilla AudioConsole software.



AudioConsole software
Switch between stand-alone and PC-based operation and benefit from patient database, custom PDF reports and data export to any patient management system.

User groups

Intended use

Determining hearing threshold levels, relative to standard reference threshold levels established by means of psychoacoustic test methods.

Measuring acoustic impedance/admittance in the human external acoustic meatus using a stated probe tone or other probe signals.

User profile

The intended users are trained professionals, healthcare personnel, clinicians and ENT doctors with audiological experience.

Audiometry

Frequency range (air and bone)

125 Hz, 250 Hz, 500 Hz, 750 Hz, 1000 Hz, 1500 Hz, 2000 Hz, 3000 Hz, 4000 Hz, 5000 Hz, 6000 Hz, 7000 Hz, 8000 Hz

Sound pressure

Level range (air): -10 dB to 110 dB

Level range (bone): -10 dB to 60 dB

Level steps: 5 dB

Signals

Steady, pulse and warble

Masking

NB

Tympanometry

Probe frequency and intensity

226 Hz \pm 1%

85 dB SPL in 2 ml \pm 3 dB

Pressure range

-300 daPa to +200 daPa

Volume range

0.1 ml to 6.0 ml \pm 5%

Ipsilateral and contralateral stimulation

Pure tone signals

0,5 kHz, 1 kHz, 2 kHz, 3 kHz, 4 kHz \pm 2%

Probe level range

80 dB to 110 dB SPL for all frequencies (5 dB steps)

General

Integrated memory

200 tests

Power supply

100-240 VAC/12 VDC, 50-60 Hz

PC connection

USB

Physical characteristics

Dimensions

295 mm x 180 mm x 55 mm (8.9 in x 7.0 in x 2.2 in)

Weight

Approx. 1000 g (2.9 lbs.)

Standards

Safety

IEC 60601-1:2005, Class II, Type B applied parts, IPX0

EMC

IEC 60601-1-2:2007, Class A

Performance

IEC 60645-1:2012, Type 3

ANSI S3.6-2010, Type 3

IEC 60645-5:2004, Type 2

ANSI S3.39-1987 (R2012), Type 2

Manufacturer

Inmedico A/S (part of Otometrics)
Johann Gutenbergs Vej 3
DK-8200 Aarhus N
Denmark

Sales and distribution

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