MT10 Handheld Tympanometer

Fast and reliable



Interacoustics[®]

leading diagnostic solutions

MT10 Handheld Tympanometer

Easy Screening

In modern care settings fast and reliable testing is paramount. The MT10 is built to meet these requirements in an easy and cost effective way. For example otitis media, a major cause of temporary or permanent hearing impairment in children, can be easily and quickly detected with the MT10.

Objective screening analysis

The MT10 automatic tympanometer is fast and easy to operate and provides objective measures that cannot be obtained by otoscopy alone.

Easy and fast tympanograms

Results can be obtained with little efforts and with no response required from the patient. This is especially beneficial when dealing with difficultto-test patients or small children.

Professional use

The MT10 is well suited for diagnostic use as tympanograms and optional reflex responses are all recorded with great detail. With the MT10 you can detect otitis media, a perforated eardrum, cholesteotomas and certain neurological disorders. You can also check tympanostomy tubes and follow up on post medical treatments.

Ipsilateral Acoustic Reflex

Four different reflex tests may be performed per ear using either fixed or automatic intensity selection. The test is carried out at the correct pressure level and the actual reflex characteristics are displayed on the screen for the operator to view and interpret.

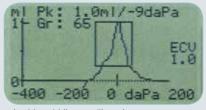
- 4 frequencies (500, 1000, 2000, 4000 Hz)
- Single or multiple dB level threshold search
- Auto detection of threshold

30 patients in memory

The MT10 can hold test results of up to 30 patients in its memory. This makes it possible to screen a large group of patients and print out the data at a later time.

Portability

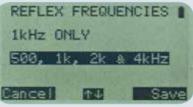
- Lightweight
- Handheld device
- Load data for printing
- Optional carrying case, thermal printer and infrared USB adapter for PC integration available



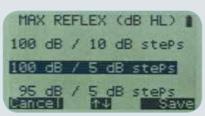
A healthy middle ear will produce a tympanogram easily recognized by its shape. The peak will be within the pass / refer box.



The acoustic reflex test (optional) may be performed to support and enhance the diagnosis. Pass / refer is easily determined.



MT10 offers 4 reflex frequencies



4 reflex levels are available in the optional reflex test (85-100dB)



It is easy to delete, print or send records to the PC (requires the optional USB adaptor to transfer or print data).

PC-integration

The MT10 offers PC-integration using the Diagnostic Suite Windows[®] software for transferring tympanometric data to the PC.

The diagnostic suite offers features such as:

- Tympanometric data transfer
- Advanced print layout wizard
- Personalized and combined reporting
- Advanced report page
- Patient and session handling
- Full database integration: OtoAccess™ and Noah compatible



Example of printout from the optional thermal printer

MT10

- -400 to +200 daPa
- Ipsilateral Reflexes (optional)
- 30 patient memory
- Fast & reliable

Optional USB adaptor for transfer of data to PC



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Technical Specifications

Tympanometry	
Analysis performed:	Peak compliance; peak pressure; gradient; equivalent ear canal volume
Probe tone:	226Hz
Pressure levels:	+200daPa to -400 daPa
Ear volume measurement range:	0.2 ml to 5 ml
Sweep speed:	Typically 200-300daPa/sec; dependant on ear & cavity volume
Pressure limits (safety shut off):	+600 to -800daPa
Reflex measurements (optional)	
Measurement mode:	Ipsilateral
Reflex tone levels:	500Hz, 1kHz, 2kHz, 4kHz Configurable over range 70dB to 100dB HL (4kHz restricted to 95dBHL)
Number of reflex levels:	Four: 100dB with 5dB or 10dB steps; 95dB, 90dB or 85dB with 5dB steps
Reflex analysis:	Reflex pass/refer at each level tested; Maximum amplitude of each reflex (seen on printed report and PC report); Pressure at which reflex was performed
Pressure used for reflex:	Tympanogram peak pressure or OdaPa
Reflex level cut-off:	Optionally, Auto-stop when reflex found.
Reflex threshold detection	Configurable 0.01-0.50ml in 0.01ml increments
Reflex tone duration:	0.6 seconds
Data storage:	30 records. Any recording can be stored once the tympanogram is viewed.
Data held:	Patient Initials, Tympanogram and Reflex graphs and analysis for Left Ear and/ or Right Ear, Time and Date of recording, which ears were tested, whether or not the record has been printed and /or sent to a PC, parameters printed and/ or sent to a PC, parameters used for analysis
Time stamps:	Time and date stamp applied to all recordings, and to the last calibration date
Internal backup power supply:	>30 days without main batteries fitted
Battery Lifetime:	Approx. 400 tests (Alkaline AA batteries)
Operating languages:	English, German and French
Supported printer:	Martel MCP8830 or Sanibel MPTII
Interface:	Infra-red, IrDA hardware, 9600 baud
Information printed:	Space for patient and clinician's details, Tympanogram analysis parameters, Tympanogram, Reflex analysis parameters, Reflex graph, Serial Number of device, Last and Next Due Calibration dates
Dimension and weight:	(LxWxH): 19x8x4cm / 7.5x 3.1x1.6inch. excluding probe. Length incl. probe: 22.5cm / 8.9inch. Weight without batteries 285g / 0.6lbs. Weight with batteries 380g / 0.8lbs.
Standards:	Safety: IEC 60601-1. EMC: IEC 60601-1-2 Impedance standard: IEC 60645-5, Type 2 Tympanometer
Medical CE-mark:	Yes
Included parts:	4 x 1.5V 'AA' Batteries BET55 Set of disposable ear-tips Handle Instructions for Use Calibration certificate
Optional parts:	CAT50 Calibration unit 0.2-0.5-2.0-5.0 ml Carrying case MPTII Portable thermal printer 3 rolls of thermal paper Diagnostic Suite and OtoAccess™ Infrared USB Adapter BET55 Set of disposable ear-tips

Other Middle Ear Analyzers:

- Titan Middle Ear Analyzer
- AT235 Middle Ear Analyzer
- AT235h Middle Ear Analyzer with high probe tones

Audiometry and Middle Ear Analyzer in one:

• AA222 Audio Traveller



The optional carrying case

The MT10 is ergonomic to hold but also offers the possibility of using the included handle to make it even more stable and lightweight as it can rest on your arm during the measurement.



Read more here: www.interacoustics.com/MT10



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