

# touchTymp MI 36

## Tympanometry & Audiometry in one device

Simply intuitive middle ear diagnostics with AC & BC audiometry

### Features at a Glance

- Combo device with small footprint
- Customizable to suit individual needs
- High resolution and quick screen transitions
- Full touch-based interface for intuitive handling
- Probe tone 226 Hz, 678 Hz, 800 Hz
- Optional high-frequency probe tone 1 kHz
- Acoustic reflex stimuli 500 Hz, 1 kHz, 2 kHz, 4 kHz, BB, HP, LP (ipsilateral and contralateral)
- Reflex Decay test (ipsilateral and contralateral)
- ETF test for intact and perforated eardrums
- Air conduction audiometry
- Bone conduction audiometry
- Built-in printer or data transfer to PC

### Tympanometry



### Audiometry



### Improve your workflow every day

Our touchTymp MI 36 combines diagnostic middle ear analyzer and audiometry tests in one exceptional device. The full 10.4" touchscreen with its user-friendly interface guarantees a unique intuitive operation and allows quick parameter changes. You can easily switch between the tests without reorganizing from one to another device and benefit from its small footprint when facing limited desk space. touchTymp MI 36 really improves your workflow every day.

### Comprehensive test protocols

Our touchTymp MI 36 provides comprehensive standard protocols for immediate operation of screening and diagnostic test processes: tympanometry with 226 Hz, tympanometry with automatic or fixed acoustic reflexes, reflex decay, eustachian tube function testing (ETF), and audiometry (air and bone conduction). The optional high-frequency probe tone of 1 kHz is ideal for providing reliable results when testing newborns.



# Technical Data

## TYMPANOMETRY

<b>Probe Frequency</b>	226 Hz ± 1 %, 85 dB <sub>SPL</sub> ± 1.5 dB 678 Hz ± 1%, 72 dB <sub>SPL</sub> ± 1.5 dB 800 Hz ± 1%, 70.5 dB <sub>SPL</sub> ± 1.5 dB
<b>Optional High Frequency</b>	1 kHz ± 1%, 69 dB <sub>SPL</sub> ± 1.5 dB
<b>Pressure Range</b>	- 600 to + 400 daPa
<b>Accuracy of Pressure</b>	± 5 % or ± 10 daPa
<b>Volume Range</b>	0.0 to 6.0 ml (compensated)
<b>Compliance Range</b>	0.1 to 8.0 ml at 226 Hz 0.1 to 15.0 mmho at 678, 800 and 1000 Hz
<b>Accuracy of Volume</b>	± 5 % or 0.1 ml
<b>Test Time Measurement</b>	3 - 5 seconds

## ACOUSTIC REFLEXES

<b>Test Frequencies</b>	0.5, 1, 2, 4 kHz ± 1 %
<b>Test Noise</b>	BB, LP, HP
<b>Test Methods</b>	Ipsilateral, contralateral
<b>Level Ipsilateral</b>	70 to 105 dB <sub>HL</sub>
<b>Level Contralateral</b>	70 to 120 dB <sub>HL</sub>
<b>Level Setting</b>	Automatic, fixed
<b>Ipsilateral Reflex Test</b>	With AGC

## REFLEX DECAY

<b>Standard</b>	Probe frequency 226 Hz
<b>Test Frequencies</b>	0.5, 1, 2, 4 kHz ± 1 %
<b>Test Noise</b>	BB, LP, HP
<b>Level Ipsilateral</b>	70 to 105 dB <sub>HL</sub>
<b>Level Contralateral</b>	70 to 120 dB <sub>HL</sub>

## EUSTACHIAN TUBE FUNCTION

<b>Test Methods</b>	Intact and perforated
<b>Pressure Range</b>	- 600 to + 400 daPa

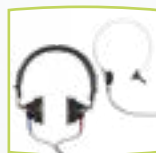
### Standard Components



touchTyp with printer



Shoulder box



DD45 and B71

### Contra Phone Accessories



DD45C



CIR55



IP30

## AUDIOMETRY

<b>Test Signals</b>	Pure tone and warble tone (pulsed and continuous) 125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz (125 Hz excluded from bone conduction test frequencies)
<b>Test Frequencies</b>	5 or 1 dB
<b>Level Steps</b>	-10 to 120 dB <sub>HL</sub>
<b>Hearing Level Range AC</b>	-10 to 80 dB <sub>HL</sub>
<b>Hearing Level Range BC</b>	Narrow band and white noise
<b>Masking Noise</b>	

## DEVICE GENERAL

<b>Display</b>	10.4" Graphic LED-Display with resistive touchscreen
<b>PC Interface</b>	USB
<b>Probe</b>	Lightweight diagnostic shoulder box probe with built-in control light and switch
<b>Printer</b>	Fast 4 inch thermal printer
<b>Power Supply</b>	100 to 240 V ~ ± 10 %, 50 - 60 Hz ± 10 %
<b>Dimensions / Weight</b>	11.81" W x 3.58" D x 5.83" H / 7.1 lbs
<b>Languages</b>	English, German, Spanish, French, Polish, Turkish, Russian, Chinese

## STANDARD

- ANSI/AAMI ES/IEC/EN 60601-1, class I, Type B; IEC 60645-5, Type 2/ ANSI S3.39, Type 2; IEC 60645-1 Type 3/ANSI S3.6 Type 3
- Class IIa according to EU medical device directive 93/42/EEC



## STANDARD COMPONENTS

- Shoulder box probe
- Shoulder box attachment kit
- Shoulder box adapter kit
- Contra phone (DD45C, CIR55, IP30)
- DD45 with HB7 headband
- B71 bone conductor
- Patient response switch
- Mic-monitor headset
- Built-in calibration cavity
- Built-in printer
- Roll of thermal paper
- USB cable
- Power supply
- Sanibel ear tip kit
- Touchpen
- Probe floss kit
- MAICO USB flash drive kit
- Cleaning cloth
- MAICO software
- Operational manual
- Quick guides

## OPTIONAL ACCESSORIES

- Audiometric transducer (IP30, DD450)
- Carry case

Specifications are subject to change without notice.

