



# touchTymp

Our ALL-TOUCH Impedance Line

## Simply Intuitive Middle Ear Testing

Our touchTymp impedance line is designed to turn tympanometry into an intuitive, efficient and enjoyable procedure. Improve your daily workflow with our full 10.4" touchscreen and a user-friendly interface that allows an easy change of parameters.



*„I can operate all features  
within 3 clicks.*

*touchTymp really is amazingly intuitive“*

*Dr. Michel Bloch, Cannes, France*



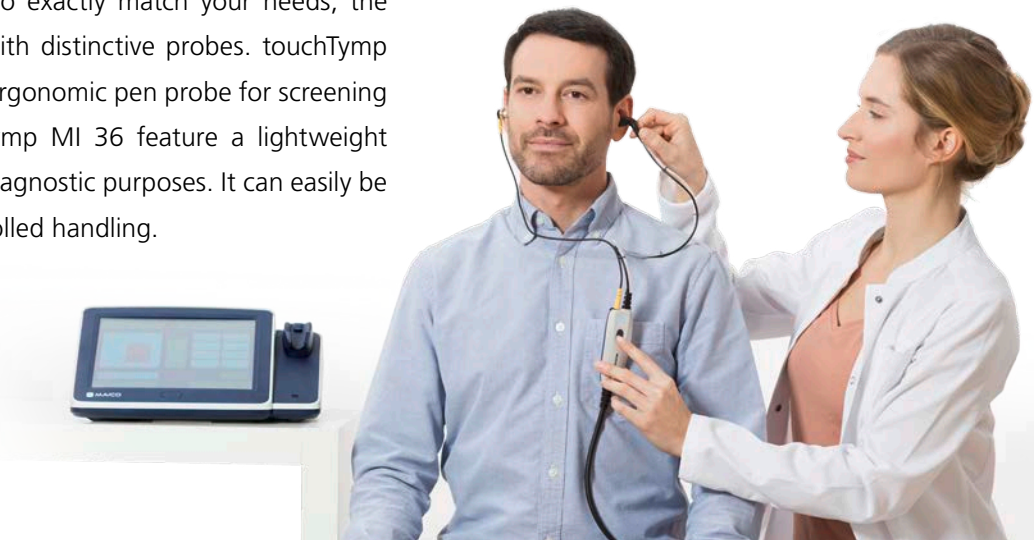




Probe Lightbar	Explanation	
	Tympanometry & Acoustic Reflex	Shows result: No Response
	Tympanometry & Acoustic Reflex	Shows result: Pass
	Acoustic Reflex	Stimulus is being given (additionally the last result is shown)
	Tympanometry	Lights up (rolling up) dependent on the values (normative box)

## Focus on Your Patient

Experience full control of the probe while concentrating on your patient: touchTymp's easy-to-handle probes feature unique light bars to provide a real-time progression of the test. To exactly match your needs, the different touchTymp versions come with distinctive probes. touchTymp MI 24 and touchTymp MI 26 offer an ergonomic pen probe for screening tests. touchTymp MI 34 and touchTymp MI 36 feature a lightweight shoulder box for both screening and diagnostic purposes. It can easily be clipped to your patient's top for controlled handling.

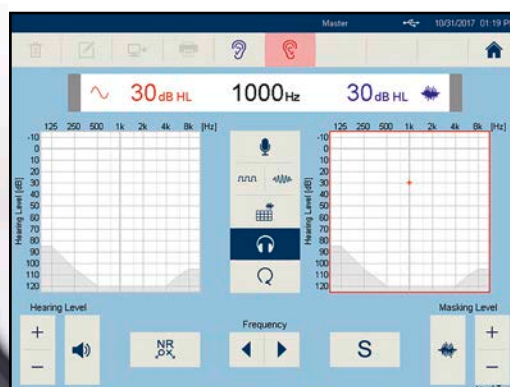


## With Audiometry for a Small Footprint

Our touchTymp MI 26 and touchTymp MI 36 both combine intuitive tympanometry and audiometry in one exceptional device. Their small footprint makes them perfect for limited desk space, and the ability to switch easily and smoothly between tests makes your workflows much more efficient and comfortable.



Choose between the touchTymp MI 26 for middle ear and audiometric screenings or the touchTymp MI 36 for added diagnostic capabilities. In addition to air conduction audiometry, the touchTymp MI 36 also offers bone conduction, which is available as an optional function for the touchTymp MI 26.





## Tympanometry for Children has Never been so Exciting

We make immittance testing easy and fast by focusing the child's attention on an exciting animated car race for the duration of the tympanometry or reflex screening procedure. The colorful animation engages the child, reducing the likelihood of breaking the seal between probe tip and ear and having to retest. This saves you time and effort, while also making the screening procedure more enjoyable for your little patient!




The car race starts as soon as the test begins. Once the measurement is completed, the car reaches the finish line and the patient has won the race.



# Comprehensive Test Protocols

Each touchTymp provides comprehensive standard protocols for immediate operation of screening and diagnostic tests:

Tests	touchTymp				RaceCar
	MI 24	MI 26	MI 34	MI 36	
Tympanometry					 <p>Available for: touchTymp MI 24 touchTymp MI 26 touchTymp MI 34 touchTymp MI 36</p>
226 Hz	✓	✓	✓	✓	
678 Hz, 800 Hz			✓	✓	
1000 Hz	optional upgrade	optional upgrade	optional upgrade	optional upgrade	
Acoustic Reflexes					
Fixed (Screening)	✓	✓	✓	✓	
Automatic (Threshold)	✓	✓	✓	✓	
Ipsilateral	✓	✓	✓	✓	
Contralateral	optional upgrade	optional upgrade	✓	✓	
Puretone	✓	✓	✓	✓	
Noise			✓	✓	
Reflex Decay					
Ipsilateral / Contralateral			✓	✓	
ETF					
ETF-Intact / -Perforated			✓	✓	
Audiometry					
Pure tone + warble tone		✓		✓	
Air conduction		✓		✓	
Bone conduction		optional upgrade		✓	
Masking		✓		✓	



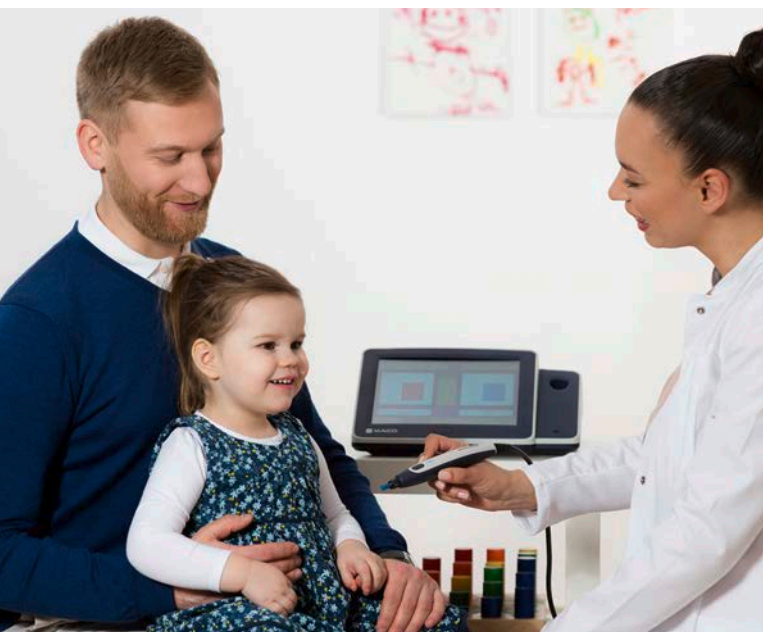
## PC Software

Customize touchTymp's software to show only the data you need in your preferred language (English, German, French, Spanish or Polish). The intuitive icons lead you through your data with very few clicks and make it easy to compare a patient's measurements.



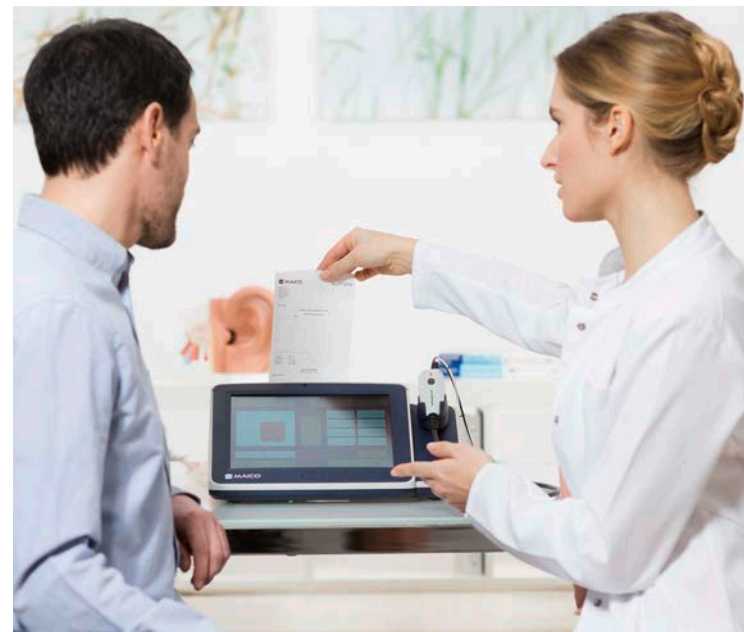
## Middle Ear Testing for All Ages

You and your patients are diverse – and so is our touchTymp. touchTymp is designed for the needs of all ages. Perform screening and diagnostic tests from newborn patients to older adults.



## Printing Made Easy

Save time by using the touchTymp's built-in printer: Just place the probe into its holder to instantly and automatically print test results and reports.





# Technical Data touchTympanometer\*

## TYMPANOMETRY

<b>Probe Frequency</b>	226 Hz $\pm$ 1 %, 85 dB SPL $\pm$ 1.5 dB 678 Hz $\pm$ 1 %, 72 dB SPL $\pm$ 1.5 dB 800 Hz $\pm$ 1 %, 70.5 dB SPL $\pm$ 1.5 dB
<b>Optional High Frequency</b>	1 kHz $\pm$ 1 %, 69 dB SPL $\pm$ 1.5 dB
<b>Pressure Range</b>	- 600 to + 400 daPa
<b>Accuracy of Pressure</b>	$\pm$ 5 % or $\pm$ 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>	$\pm$ 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 $\pm$ 1 %
<b>Test Noise</b>	BB, LP, HP
<b>Test Methods</b>	Ipsilateral, contralateral
<b>Level Ipsilateral</b>	70 to 105 dBHL
<b>Level Contralateral</b>	70 to 120 dBHL
<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 $\pm$ 1 %
<b>Test Noise</b>	BB, LP, HP
<b>Level Ipsilateral</b>	70 to 105 dBHL
<b>Level Contralateral</b>	70 to 120 dBHL



## MAICO Diagnostics GmbH

Sickingenstr. 70-71  
10553 Berlin, Germany

Tel.: +49 30 / 70 71 46-50  
Fax: +49 30 / 70 71 46-99

## EUSTACHIAN TUBE FUNCTION

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

## AUDIOMETRY

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

## DEVICE GENERAL

<b>Display</b>	10.4" Graphic LED-Display with resis- tive touchscreen
<b>PC Interface</b>	USB
<b>Probe</b>	Lightweight diagnostic Shoulder-Box with built-in control light and switch
<b>Printer</b>	Fast 4 inch thermal printer
<b>Power Supply</b>	Mains 100 to 240 V $\pm$ 10 %, 50 - 60 Hz $\pm$ 10 %
<b>Dimensions / Weight</b>	W 30 x D 34.5 x H 14.8 cm / 3.2 kg
<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



\* Technical specification vary with version selected

E-mail: sales@maico.biz  
Web: www.maico.biz