

# Simple and quick as 1, 2, 3!

Reliable results for OAE and Audiometry screening.



Outstanding  
OAE performance!  
Based on  
over 20 years of  
experience.

**Made in Germany**



\\SCREENING  
SENTIERO

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## DPOAE (order #100110):

- Leak check: analysis of feedback signal (440 Hz probe tone)
- Probe check: limit of maximum sound pressure ("stimulus"), comparison across speakers ("symmetry"), leak check ("probe fit")
- Calibration: in-the-ear calibration with ear-canal volume adjustment
- Noise detection: narrow band noise around 2f2-f1
- Residual noise calculation: weighted averaging, summed weighting factors
- Artifact rejection: weighted averaging
- Response detection: F-test, F-value at a single point (Fsp)
- Frequency ratio f2/f1: 1.22. Sample rate: 48 kHz (stimulus, response)
- Minimum DPOAE level criterion: L1 – 70 dB
- Measurement interval: 4096 samples
- Stimulus modes with Frequency-modulated DPOAE license: fm = 1.4-1.6 Hz, modulation depth = 50 Hz@1 kHz, 100 Hz@4 kHz
- Multi-channel DPOAE: simultaneous measurement of DPOAEs at up to two f2 frequencies at a time
- Frequencies f2: 1, 1.5, 2, 3, 4, 5, 6, 8 kHz
- Stimulus level L2: 30 to 65 dB SPL; step size: 5 dB
- L2/L1 relation: automatic scissor paradigm: L1 = 0.4 L2 + 39 dB SPL
- SNR stop criterion: 6, 9, 12 dB
- Factory defaults: Quick screen and standard screen (5,4,3,2,Khz, overall stop criterion 3 out of 4, as fast as possible, multichannel, FMDPOAE, 55/65 dB, SNR 6 dB), Manual retest option

## TEOAE (order #100109):

- Noise detection: root mean square (RMS) of non-stimulus intervals
- Residual noise calculation: weighted averaging, summed weighting factors
- Artifact rejection: weighted averaging
- Response detection: 8 values with changing sign fulfilling a 3 sigma criterion (representing 99.7 % statistical significance)
- Sample rate: 48 kHz (stimulus), 16 kHz (response)
- Window of analysis: 5 to 13 ms post-stimulus
- Stimulus level: 85 dB peSPL
- Stimulus type: short-term stimulus without direct component (0.7-6 kHz);
- Stimulation protocol: nonlinear

## Audiometry (order #100113):

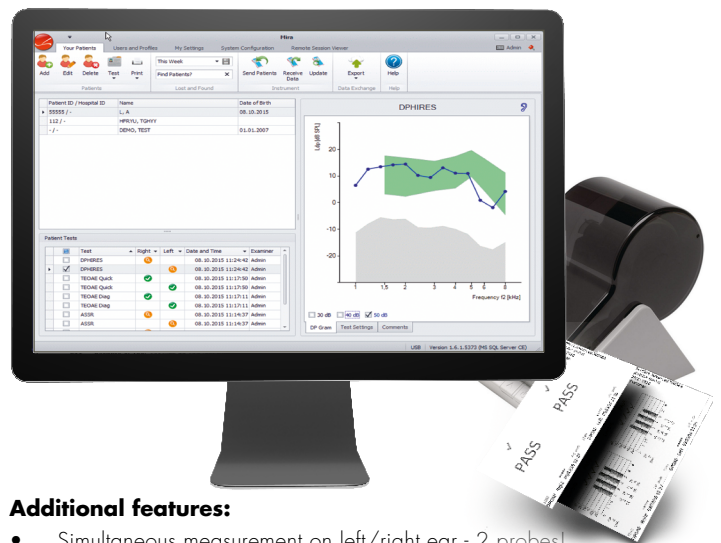
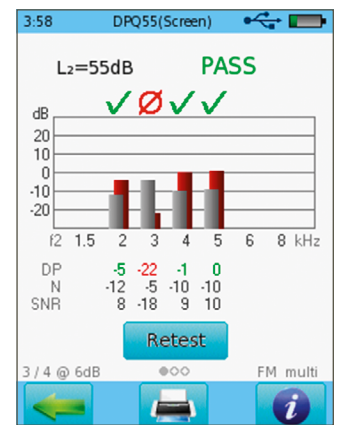
Screening audiometer (DIN EN 60645-1 class 4), children audiometry options (MAGIC #100112, MATCH #100356 and many more). Multiple transducer options including circumaural headphones, insert phones and bone conduction. Multiple upgrades available.

Please use the information on our webpage to fit your needs and distinguish between screening and diagnostic platforms. Diagnostic platforms can be used for screening too, but can be upgraded to diagnostic features later on!

The factory default protocol overview is available on:

[www.path-medical.de/learn](http://www.path-medical.de/learn)

**PATH MEDICAL develops and manufactures in Germany, giving us the confidence to extend our standard warranty on manufacturing defects up to even 5 years!**



## Additional features:

- Simultaneous measurement on left/right ear - 2 probes!
- Entertainment mode for all OAE modules available
- Optional Database Software - Data Management Easily view, archive and export test results
- Stores up to 1000 patients on the device
- With the PC-SW database MIRA you can transfer test results via USB
- Results can be sorted by birthdate, name, ID, examiner, date, time
- Export full-color, 8.5" x 11" reports in multiple formats, with graphic and tabular data, preset or free comments
- Easily attach test results to patient records with many EMR systems
- Patient demographics on device
- Noah compatible

## Technical Specifications:

Device dimensions: 209 x 98 x 52 mm, ca. 500 g, ca. 475 Display: 240 x 320 pixel; graphic LCD 3.5", resistive touch screen, real time-clock, piezo-electric sound generator, USB, Output voltage and nominal impedance (headphone socket): 5 Vpp, 32 Ω Power consumption: max. 2 W. Memory capacity: up to 1000 patients, ca. 1000 tests (dependent on test type).

Additional technical specifications can be found in the detailed technical manual (rev 11 per 08/2017) available online <https://pathme.de/support/#manuals>

Scan this QR code to review a training video on SENTIERO for screening:



## Hardware order instructions for MODEL SOH100098 - SCREENING:

- # 100250-US0 for OAE only (add article nr for DPOAE or for TEOAE)
- # 100250-US1 for OAE and Pure Tone Audiometry

All screening sets come with: carrying bag, OAE probe, accessory box, charger, manual, (and headphones for sets with Audiometry)