

December 20th, 2011

Dear Customer, as announced in the Distributor Pre-Release Note 2011-03, new hardware, firmware and software is now available from PATH Medical.

1. WWW.PATHME.DE

Our new website will go online December 20th. Distributors, who attended our service training can connect under 'Distributor login' for advanced information. Please contact service@pathme.de for details.

2. **DEVICE HARDWARE: SENTIERO ADVANCED**

SENTIERO ADVANCED provides all measurement modules of the standard Sentiero Basic plus **Auditory Brainstem Response (ABR)** measurement and additional **speech tests**.

3. **NEW TEST MODULES (FIRMWARE)**

3.1 HIGH FREQUENCY PTA (Order nr. 100315)

→ Available for *SENTI*, *SENTIERO*, and *SENTIERO ADVANCED*

- Extended frequency range **up to 16 kHz**
- Package includes Sennheiser HDA-200 headphone

3.2 DIAGNOSTIC ABR (Order nr. 100337)

→ Available only for *SENTIERO ADVANCED*

- Recording of ABR traces at up to five stimulus levels (5-90 dB nHL)
- User-definable parameters: stimulus type (click, chirp), stimulus polarity (positive, negative, alternating), jitter, click rate, and number of averages
- Automatic detection algorithm with traffic light indicator
- "Auto Stop" and "Auto Proceed" functionality
- Masking noise
- Jewett marker input

3.3. MAUS: auditory processing disorder test (Order nr. 100355)

[MAUS = **M**unich **AU**ditory **S**creening test for auditory processing disorders]

→ Available for *SENTIERO ADVANCED* in German language

- APD screening test based on three subtests (syllables similar to Mottier, speech in noise test, phoneme identification and differentiation test)
- Automated test procedure and result reporting
- Suitable for children **from 6 to 11 years**

3.4. MATCH: image based speech test (Order nr. 100356) – EVALUATION VERSION
[MATCH = Mainzer Audiometric Test for CHildren]

→ Available for SENTI, SENTIERO, and *SENTIERO ADVANCED* in German language

- Two test modes: adaptive threshold detection algorithm, fixed level
- Images and words **appropriate for children from 2 to 5 years**

Please note that this test is for evaluation only. The final release for the German version is expected to be in Q1/Q2 2012. Additional languages will follow later.

4. FIRMWARE MODIFICATIONS/UPDATES

4.1 DPOAE Quick / Threshold

→ Available for *SENTIERO*, *SENTIERO ECO* and *SENTIERO ADVANCED*

- Higher stimulus levels **up to 65 dB HL**
- Enhanced DPOAE detection algorithm with increased sensitivity

4.2 Binaural TEOAE Quick

→ Available for *SENTIERO*, *SENTIERO ECO*, and *SENTIERO ADVANCED*

- **Simultaneous binaural measurement** with two ear probes

- 4.3 Extended level range for PTA4 Advanced and PTA3

→ Available for *SENTI*, *SENTIERO*, and *SENTIERO ADVANCED*

- Higher stimulus levels **up to 110 dB HL** between 500 Hz and 4 kHz

4.4 SUN

→ Available for *SENTI*, *SENTIERO*, and *SENTIERO ADVANCED*

The SUN test is released for Italian and German language. English and French are currently under validation. The release of these test languages is expected for Q1/Q2 2012.

4.5 Instrument Language

The following **device language packs** are planned and will be available:

- EU1 = English, German, French, Italian, Spanish (released now)
- L01 = English, German, Spanish, Portuguese (to be ready in Q1 2012)
- L02 = English, German, Greek, Turkish (to be ready in Q1 2012)
- L03 = English, German, French, Arabic, Farsi (to be ready in Q1 2012)
- L04 = English, Hindi, Bangla (to be ready in Q2 2012)
- L05 = English, German, Russian (to be ready in Q2 2012)

4.6 Battery indicator

The accuracy of the battery indicator has been improved.

PLEASE NOTE: The device needs to be discharged entirely (red light) once, so that the battery indicator will be synchronized.

IMPORTANT NOTICE: PATH medical strongly recommends to update the instruments with the latest firmware. Please assure to update all devices with the new firmware.



5. ACCESSORIES

The following new accessories are now available:

- **Electrodes** (Order nr. 100368; 100334, 100335 upon request) for ABR measurement



- **Electrode cable** (Order nr. 100307) for ABR measurement
- **Electrode testing device** for testing your electrode cables (PRELIMINARY; in Q1 2012)
- **Sennheiser HDA-200** (Order nr. 100269) for PTA-HF module



IMPORTANT NOTICE: Please note that some of the previously offered accessories for Senti/Sentiero will be available with a different order number for the new Sentiero Advanced. Some connectors of the Sentiero Advanced device differ with the Senti/Sentiero devices (e.g. bone conductor, patient response button, power cable, label printer cable).



6. PC SOFTWARE MIRA

The following new features are now available with the new MIRA release 1.2.0:

- **GDT compatibility** in single user mode (i.e., enables MIRA to exchange data with GDT-compatible medical practice software)
- Additional report functionality: **Compact printout** of multiple tests , side by side report printout
- Additional **DPOAE I/O function and DPOAE gram result view** for DPOAE Quick and Threshold tests
- **Enhanced ABR viewer** for offline data analysis

IMPORTANT NOTICE: Previous MIRA releases do not support the new device type Sentiero Advanced. Please make sure to update your PC software especially when using Sentiero Advanced.



7. SERVICE TOOLS, TRANSDUCER CALIBRATION

IMPORTANT NOTICE for all SENTI/SENTIERO calibration service providers:

For SENTI/SENTIERO, a new service device named **CaliPro** is now available, which allows for calibration of PATH's transducers (headphone, bone conductor, insert earphone, ear probe). **CaliPro** operates together with corresponding PATH calibration software. A new Service Tool (Version 1.1.0) is available.



More information upon request.

GENERAL INFORMATION

For service requests (i.e., technical or handling problems) regarding SENTI/SENTIERO hardware, firmware or software and the related accessories and service tools please contact PATH service at service@pathme.de.

For further information about PATH products please refer to <http://www.pathme.de> or contact info@pathme.de.
