

May 08, 2024

**Dear customer,**

PATH MEDICAL is pleased to announce the release of new QSCREEN device firmware (2.1) and QLINK PC software (1.4.0).

The main updates are described below. Please pay particular attention to the important information described in chapter 3 ("Important Notices").

## **1. FIRMWARE MODULES AND FEATURE UPDATES**

The following new features are now available with the QSCREEN firmware:

- **Auditory Brainstem Response (ABR):**
  - When using a probe for ABR, the probe fit is observed periodically during the recording. The recording is paused if the probe fit has significantly changed. The probe is recalibrated and the test is resumed after successful recalibration.
  - Implementation of improved robustness to EEG signals with periodic noise.
  - ABR cable connection is checked before the measurement is started.
  - Normative area is displayed dependent on patient's date of birth. Default age group is configurable in QLINK, in case the date of birth is not available on the device.
  
- **Auditory Steady-State Response (ASSR):**
  - Frequency specific ASSR screening using three band-limited chirps simultaneously.
  - Spread-spectrum technology.
  - Screening stimulus levels between 30 and 50 dB nHL.
  - Configurable pass criterion: 2 or 3 frequencies to pass the screening test.
  - Automated sequence of ASSR and ABR measurements (aEPS). Requires a license.
  
- **Otoacoustic Emissions:**
  - TEOAE: early refer criterion to save test time when no valid OAE response is detected.
  - DPOAE: it is possible to re-test single frequencies after the measurement. The frequencies can be selected by the user.
  - Noise Cancellation is always enabled and cannot be disabled by the user.

- Noise Cancellation gain (dB value) on TEOAE and DPOAE result screens and reports has been removed
- In-ear calibration of the ear probe is repeated up to maximum 3 times in case of a poor probe fit during the measurement
  
- **Direct Print:**
  - Print reports to office laser printers without using a PC by connecting the printer to the USB port of the Docking Station.
  - Several report types on A4 or US letter available: detail, summary, and side-by-side report.
  - Report configuration via QLINK (Logo, Barcode, QR-code).
  
- **Patient Test Menu**
  - Right ear “Play” buttons and result icons are displayed in the left column and vice versa (mind the ear icons!).
  - Display either the last or the best result of each test protocol instead of the “Play” button (configurable in QLINK).
  - Test protocols can be hidden for specific user groups (configurable in QLINK).
  
- **QR- and Barcodes:**
  - Content of the QR-code is configurable in QLINK, e.g. number and order of patient fields.
  - Supported Barcode formats: Code 128, Code 39, Code 93, Code 25 interleaved.
  
- **Open Session (Start testing without selecting a patient first):**
  - Existence of an Open Session is checked after the QSCREEN has been switched on. A message appears prompting the user to close the session (assign to a patient or discard).
  - Open Sessions are linked to a user, preventing other users to close an existing session.
  - Users need to have the permission to start an Open Session (configurable in QLINK).

- **Patient List:**

- Automatic removal from To-Do list can be enabled and configured in QLINK. Several rules are available.
- Patient ID and date of birth is displayed if patient name is not available

- **Miscellaneous**

- New user interface languages: Japanese, Hungarian, Polish, Estonian, Portuguese (Portugal), Kazakh, Uzbek.
- Improved Bluetooth connection stability.
- Test result screen: show next/previous result by swiping left and right.
- Expiration date of time-limited licenses shown in License Management page.
- Sample measurements can be done in Quality Test menu. Test results cannot be stored.
- Display brightness is automatically reduced if the device isn't used for a set period of time (configurable).
- Ruby annotations of patient names available (Japanese only).
- Docking Station LED indication colors changed: "Yellow" while booting, "White" when Docking Station is ready.

## **2. PC SOFTWARE**

- **QLINK**

- New device configuration options as described above (no software license required)
- New report type: detail results of both ears side-by-side.
- Support of photos in comments.
- ABR: normative area is display in the waveform graph.
- Additional test information available, e.g. transducer type, serial number etc.
- Option to hide test modules you don't need (e.g. protocol settings, result overview in the patient list).
- HiTrack and LGL export
- Docking Station software updater (also for pathTrack devices).
- Language selection during installation.
- Database backup when changing export settings (HiTrack, XML, LGL) during installation.

- **pathTrack:**

- pathTrack devices cannot be configured via QLINK.
- Users can be configured so that they are not authorized to transmit data to the pathTrack server.
- Software update of the Docking Station only possible via QLINK.

### **3. IMPORTANT NOTICES**

Please read the following important information carefully and make sure to inform your customers about this information.



PATH MEDICAL strongly recommends to **use the latest QLINK** and the **latest PATH Service Tool** including the new firmware. Please update all devices to the new firmware by using QLINK or the PATH Service Tool update function.



When updating the device firmware, **QLINK will also update the Docking Station software**. This may take **up to 30 minutes**. The QSCREEN turns off during the update process and the Docking Station's LED changes the color several times. **Do NOT turn on the QSCREEN until the update is finished** (see left sidebar in QLINK). Wait until the LED of the Docking Station illuminates white.



**pathTrack devices** will be updated automatically after data transmission, once the new firmware is available on the server. However, the **Docking Station software will not be updated**. You can still use your equipment as usual, but please contact your distributor to update the Docking Station manually. If you want to use the label printer, it is required to update the Docking Station.

#### **4. GENERAL INFORMATION**

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*For service requests (i.e., technical or handling problems) regarding QSCREEN hardware, firmware or software and related accessories and service tools please contact PATH MEDICAL service at [service@pathme.de](mailto:service@pathme.de).*

*For further information about PATH MEDICAL products please refer to <http://www.pathme.de> or contact [info@pathme.de](mailto:info@pathme.de).*

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