

QUICK START GUIDE

QSCREEN ABR

PATH MEDICAL GmbH
Landsberger Straße 65
82110 Germering / Germany
Tel +49 89 800 76 502 / Fax +49 89 800 76 503
Info @pathme.de / www.pathme.de

THE SOUND OF SCIENCE



Quick Guide: Newborn ABR Hearing Screening with QSCREEN

Hearing screening using ABR provides a simple and reliable way to confirm that a newborn's hearing meets NSHP protocol standards.

1. Test environment for QSCREEN

QSCREEN® is designed for use in clinics and maternity wards, providing reliable newborn hearing screening at the point of care.

If it is difficult to perform recordings, aim for:

- Quiet room with minimal background noise.
- Turn off nearby electronics (phones, monitors, power supplies).
- Use a shielded sound-proof booth.

2. Power on QSCREEN & connect cables for electrodes and transducer

- Press power button to turn on the QSCREEN.
- Connect the electrode cable with the **Black** plug to the **Black** socket.
- Connect the ear coupler cable with the **Blue** plug to the **Blue** socket.



Audible "click" confirms full insertion

3. Prepare Baby skin for test

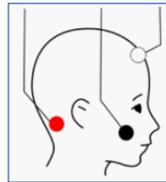
Clean the skin at electrode sites (e.g. abrasive gel) to improve contact and reduce impedance.

Place electrodes:

Red on the nape of the neck (binaural testing).

White on the upper part of the forehead.

Black on the cheekbone (ground electrode).



4. Place ear couplers above baby's ears:

Blue Left ear.

Red Right ear.

Remove protective film from ear couplers before attaching over the ears.



Note: Never place the red and blue ear coupler adapters directly in the ear canal. Use them only with the ear couplers fitted.

Note: Only use the ear couplers with the ear coupler cable - not with the ear probe.

5. Patient Data entry:

Choose

- **Test now:** Press **Test** – assign patient later.
- **New Patient:** Press **New Patient** or scan **Barcode**.
- **Existing Patient:** Press **Select Patient**.



Quick Guide: Newborn ABR Hearing Screening with QSCREEN

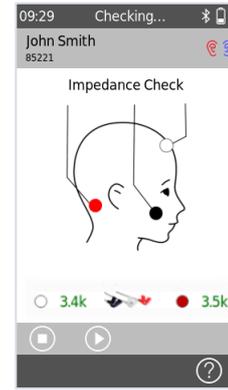
6. Hearing screening ear and impedance check

Select Test Ear.

-  Left ear.
 -  Right ear.
 -  Both ears (simultaneous).
- Chirp stimulus at 35 dB nHL (configurable in QLINK).

Impedance Check (Automatic)

- Status shows "Checking" in header.
- **Green** Impedances accepted.
- **Red** Repeat cleaning or replace electrodes.



Note: It is recommended that each of the impedances are below 4 kOhm and the difference between red and white electrode is lower than 2 kOhm. If the impedances are high, reposition or replace the electrodes for more reliable results.

7. Hearing Screening Test

On-Screen Indicators:

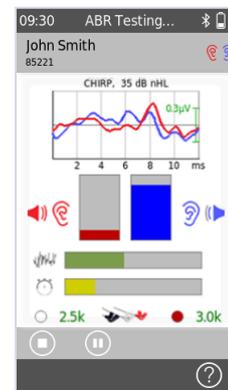
- Waveform graph: ABR response.
- Detection bar: neural response strength.
- Noise bar: Myogenic/EEG noise (turns red if too high)
- Progress bar: Time elapsed.



Stop the test.



Pause and resume the test



8. Results:

-  PASS
-  REFER
-  INCOMPLETE (manually stopped)

Additional test information is:

- Myogenic/EEG Noise
- Duration
- Impedances of the electrodes

To repeat test: Press  **Play** button



9. Print Results

Note:

Please ensure that the printer is properly connected to the docking station before use.

Go back to patient test menu, select the ABR result, press  **Print** button



Quick Guide: Newborn ABR Hearing Screening with QSCREEN

Release date: 2025-12
Revision: 100800-42 Quick Guide QScreen ABR 02
Valid from: Firmware Revision 2.2
Applies to: QSCREEN

All mentioned items, products, brands and trademarks are registered or owned by the mentioned companies.

All information, illustrations, and specifications provided within this manual are based on the latest product information available at the time of publication. PATH MEDICAL reserves the right to make changes at any time without notice.

Please note that not all products displayed on our webpage or advertising materials are available in all territories. Please contact your local distributor or PATH MEDICAL for further information.

Errors and omissions excepted.

Copyright Notice

No part of this manual may be reproduced, translated, stored, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written consent of PATH MEDICAL GmbH.

Copyright © 2025 PATH MEDICAL GmbH

Tel.: +49 89 800 76 502

Fax: +49 89 800 76 503

PATH MEDICAL GmbH
Landsberger Straße 65
82110 Germering
Germany
Internet: www.pathme.de



0124