

QUICK START GUIDE

QSCREEN ASSR

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THE SOUND OF SCIENCE



Quick Guide: Newborn ASSR Hearing Screening with QSCREEN

Hearing screening using ASSR provides a reliable method for frequency-specific assessment of the auditory pathway up to the brainstem.

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

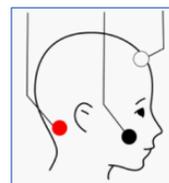
Clean the skin at electrode sites (e.g. abrasive gel) to improve contact and reduce impedance.

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 foil from the ear couplers before attaching over the ears.



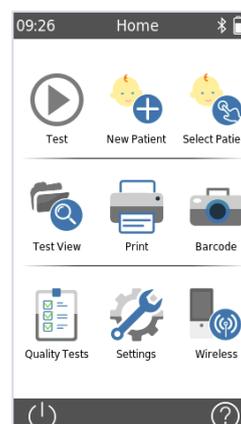
Note: Never place the red and blue ear coupler adapters directly in the ear canal. Use them only with the ear couplers fitted.

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**.



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6. Hearing screening ear and impedance check

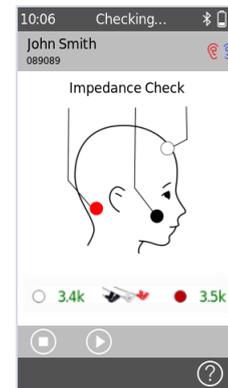
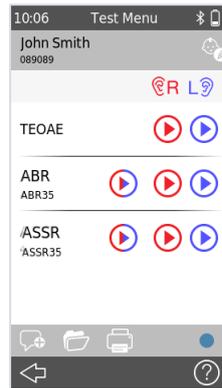
Select Test Ear.

-  Left ear.
-  Right ear.
-  Both ears (simultaneous) possible for ABR and ASSR.

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:

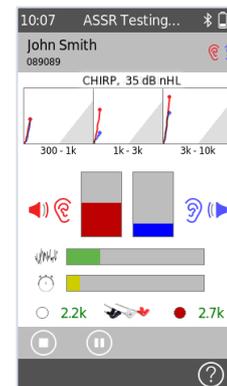
- With frequency-domain detection, the system delivers immediate pass/refer status for three optimized chirp bands—low (300 Hz–1 kHz), mid (1 kHz–3 kHz), and high (3 kHz–10 kHz)—providing a fast, frequency-specific view of auditory sensitivity.
- Detection bar: Overall detection in real time for both ears.
- Noise bar: Myogenic/EEG noise (turns red if too high).
- Progress bar: Time elapsed.



Stop the test.



Pause and resume the test.



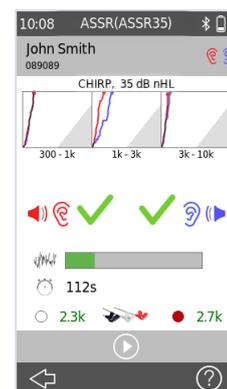
8. Results:

-  **PASS** (when 2 or 3 frequencies have been detected, dependent on protocol).
-  **REFER** (when one of the frequencies fails, see which one on top).
-  **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 ASSR result, press  **Print** button.

If you want to print a summary report, go back to patient test menu and press the **Print** button in the footer.



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