

QUICK START GUIDE

QSCREEN TEOAE

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THE SOUND OF SCIENCE



Quick Guide: Newborn TEOAE Hearing Screening with QSCREEN

Hearing screening using TEOAE provides a simple and reliable way to access outer air cell function in newborns.

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 record, aim for a quiet room with minimal background noise.

2. Power on QSCREEN & connect the cable for transducer

- Press power button to turn on the QSCREEN.
- Connect the OAE probe with the **Blue** plug to the **Blue** socket.



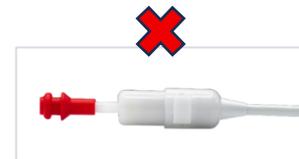
Audible “click” confirms full insertion

3. Prepare Baby for test & fitting the ear tip for the probe.

- Check the ear canal before testing.
- A narrowed canal indicates it may not be straight.

Select an ear tip that fits the patient’s ear canal.

- Gently push the ear tip onto the probe tip until it hits the base of the probe tip.



Note: Confirm correct ear tip positioning on probe and prevent displacement during inversion.

4. Inserting the probe into patient’s ear canal:

Place the probe in the ear.

- Gently stretch the ear canal by pulling the pinna back and slightly downward. Insert the probe into the ear canal using light, steady pressure.
- Slightly twist the probe as you insert it.
- If the probe slips out of the ear, you can hold it by the probe cable (not by the probe body).



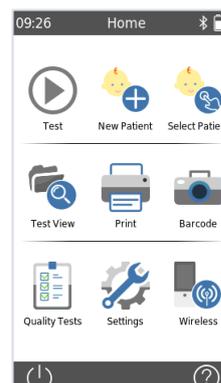
Note: Avoid holding the probe by the probe body during the measurement as this can produce noise that may affect the test result.

Note: Ensure that the cable is not in contact with any vibrating surfaces during testing.

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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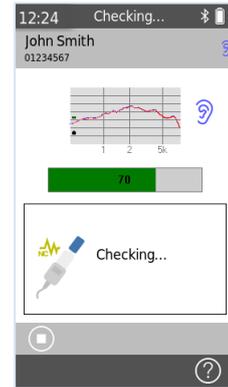
6. Hearing screening ear and probe fit check

Select Test Ear.

-  Left ear.
-  Right ear.

Probe fit Check (Automatic)

- Status shows "Checking" in header.
- The device is checking if the probe fits properly and the ear canal is sealed.
- Green** probe fit accepted.
- Red** check ear tip or replace probe.



7. Hearing Screening Test

On-Screen Indicators:

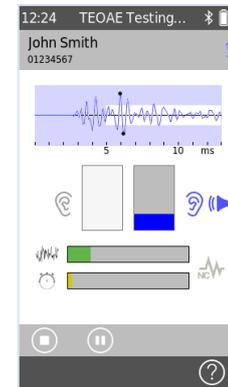
- Waveform: TEOAE measurement results with reasonable peaks.
- Detection bar: overall signal detection including all frequencies.
- Noise bar: Acoustic noise (turns red if too high).
- Progress bar: Time elapsed.
- Noise Cancellation in noisy environment:  changes to green → 



Stop the test.



Pause and resume the test.



8. Results:

 PASS

 REFER

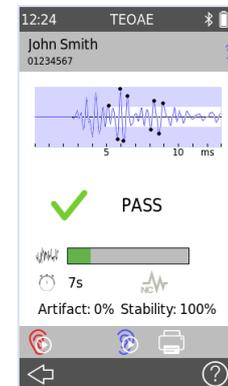
 INCOMPLETE (manually stopped)

Additional test information is:

- Acoustic noise
- Test Duration
- Artifact: Rejected recordings due to noisy conditions. 20% or lower accepted.
- Stability: Indicate probe shift during the test. Above 80% accepted.

To repeat test: On the same ear press  icon (left ear in the given example).

On the other ear press  icon (right ear in the given example).



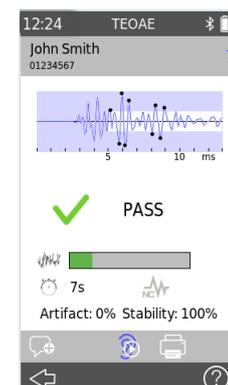
9. Print Results

Note:

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

Press the  **Print** button to print the current test result.

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



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