

INTRODUCTION

The OtoScreen IV hearing screener has two buttons, a "Scan" button and a "40dB Toggle" button. See figure 1. The Scan button initiates a tone when held down and sequences through the four frequencies (500, 1000, 2000 and 4000 Hertz) when pressed and released. The 40dB-Toggle button toggles the sound level between 40 dB HL and the threshold tone level.

The threshold sound level is 20 dB HL for a Pediatric unit and 25 dB HL for a Standard unit. Both types of units have the same light-brown switchplate color. Whether a unit is Pediatric or Standard is indicated on the serial number label inside the unit.

BASIC OPERATING INSTRUCTIONS

- Press and hold the Scan button down with your thumb. The unit turns on and a green light indicates that the 1000 Hz tone is selected. A yellow light comes on after one second indicating that a tone is being presented. See figure 2.
- Release then press and hold the Scan button again to advance to the next frequency. A yellow light comes on after one second indicating that a new tone is active. A tone is only presented to a subject when the Scan button is held down.
- The green lights always indicate which frequency is active.
- Quickly pressing and then releasing the Scan button advances the unit to the next frequency without presenting a tone. This is useful when you want to skip a tone, repeat a tone or present tones in a different order.
- To increase the sound level to 40 dB, press and release the "40dB Toggle" button with your index finger. A red light turns on indicating that the unit is outputting a 40 dB tone. See figure 3.
- The unit stays in the selected "sound level" mode until the 40dB-Toggle button is pressed again. This makes it easy to test at either the threshold level or the 40 dB level.

Become familiar with operating the unit before using it to screen a subject for hearing loss.

Your unit should be calibrated every 1-2 years. Check your State regulations. Go to www.HearingScreeners.com for information about re-calibrating your unit.

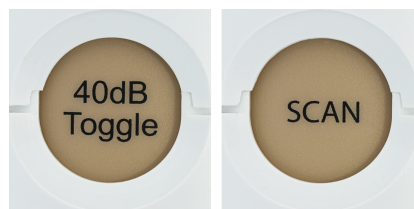


Figure 1



Figure 2

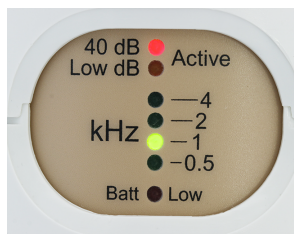


Figure 3

There are many different ways to use the OtoScreen III to screen hearing. Following is one possible method.

SCREENING PROCEDURE

STEP ONE – TALK TO THE SUBJECT

- For successful screening there needs to be good communication with the subject. Talk to the subject before any screening begins so there is a mutual understanding about what responses are expected.
- Explain to the subject to raise their hand or finger when they hear something and lower their hand or finger when they don't. See figure 4.
- For young children simplify the communication and make it fun. The child could wiggle their nose and say "princess" or "cowboy" instead of raising a hand or finger. Be creative!

STEP TWO – QUICK CHECK

Do the following quick-check sequence to see if the subject is hearing all the tones:

- Press the Scan button to turn the unit on. Use the "40db Toggle" button to select what sound level to start your testing at.
- For children and the general population testing is done first using the threshold sound level. For seniors testing first at the 40dB level is a good choice.
- Place the unit over one of the subject's ears centered on their ear canal.
- Press and hold the Scan button until the yellow light comes on. If the subject doesn't raise their hand, make a note that further testing is needed.
- Release and press the Scan button again. If the subject doesn't raise their hand, make a note that further testing is needed.
- Repeat the above step as many times as necessary to get a consistent result for all frequencies. The 500 Hz test should be omitted if the testing environment is not very quiet.
- Repeat all of STEP TWO for the other ear

STEP THREE – VERIFY HEARING PROBLEMS

- For each ear and each frequency the subject didn't raise their hand (or lowered their hand) in STEP TWO above, scan the unit to that frequency and hold the Scan button down until the yellow light turns on and a tone is presented.
- If you are testing at the threshold sound level and the subject doesn't raise their hand indicating a tone is present, immediately press and release the 40dB-Toggle button to increase the sound level to 40 dB to see if the subject can hear the louder tone.
- If a subject doesn't raise their hand for either the threshold sound level or the 40 dB sound level, there is a good probability there is hearing loss at that frequency.
- If you are testing seniors at the 40 dB sound level, if the subject doesn't hear the louder tone usually there is no need to press the 40dB-Toggle button and test at the softer tone. This is at your discretion.

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- Subjects less than 65 years old should be able to hear tones at both the threshold dB level and the 40 dB sound level. Subjects 65 years and older are only required to hear the tones at 40 dB.
- Repeat *STEP THREE* as many times as necessary to get a consistent result.

STEP FOUR – REFER

- Refer the subject for more detailed testing if a hearing loss is detected.



Figure 4

Failure Criteria

Hz	500*	1000	2000	4000
Child 3+	20 dB	20 dB	20 dB	20 dB
Adults	25 dB	25 dB	25 dB	25 dB
Age 65+	40 dB	40 dB	40 dB	40 dB

* 500 Hz is included only if the ambient noise can be made very low.

OtoScreen IV Hearing Screeners

USER GUIDE

Noyl, LLC. A Utah Company
9980 South 300 West, Suite 200
Sandy, UT 84070

information@HearingScreeners.com
www.HearingScreeners.com
(801) 523-2453

