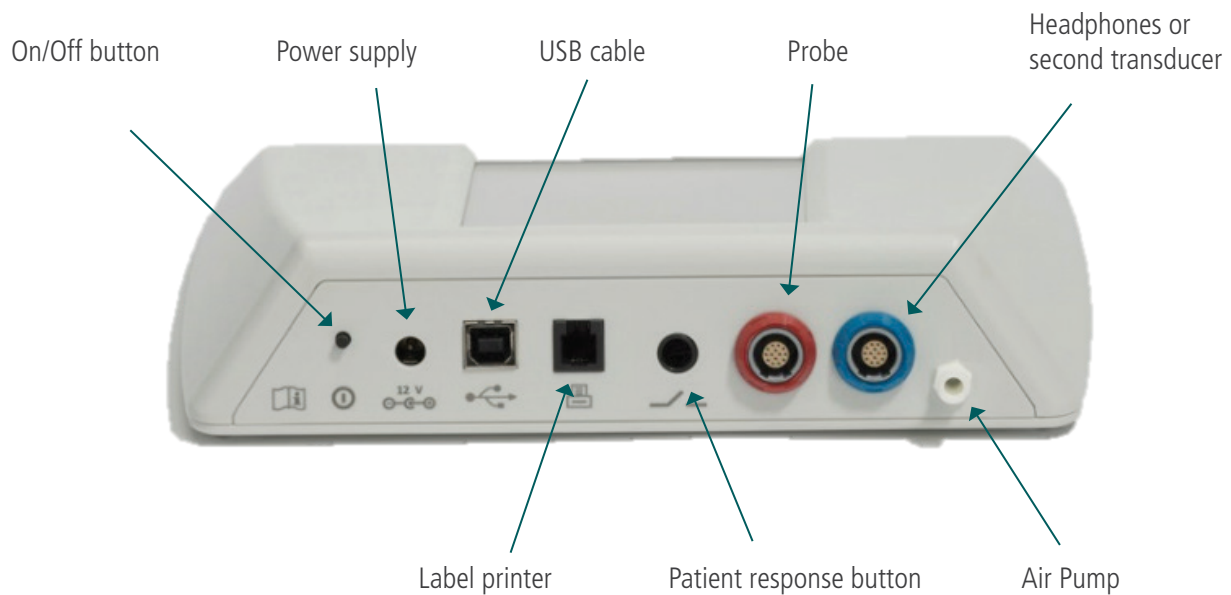


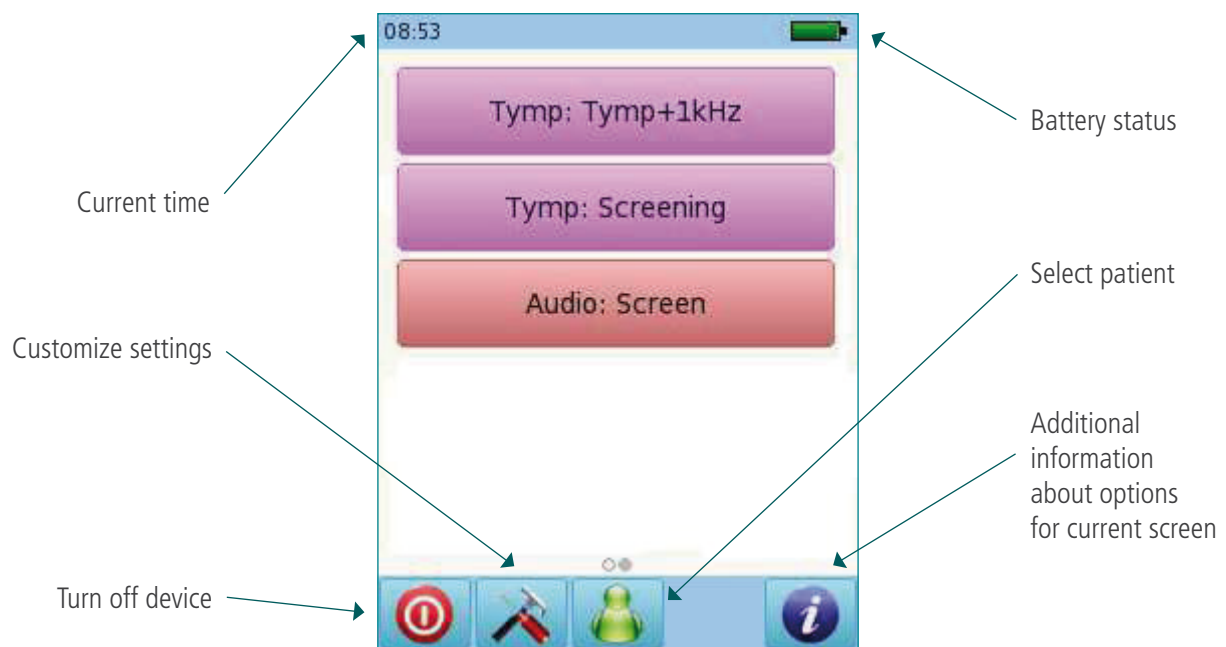
Screening tympanometry and audiometry

► Device connectors



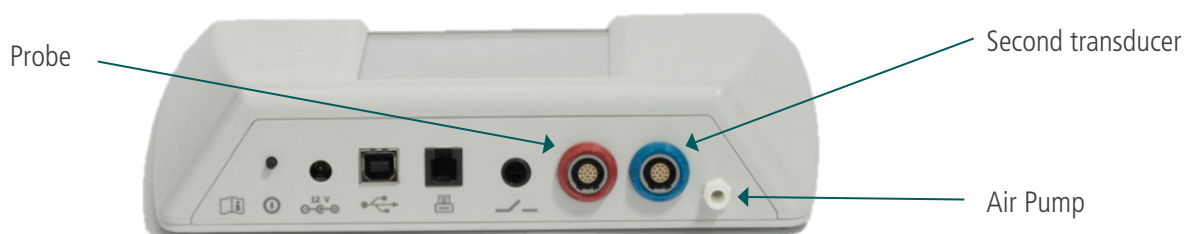
► Start menu

Please note that not all Start Menu options will be available depending on the configuration of your device



► Testing: Tympanometry

Select the Tymp: Tymp +1kHz button from the start menu and connect the probe to the red connector and the air cable to the pump connector. Select the test ear by pressing either the Right or Left ear icon. Cartoon mode will show an airplane on the screen during the tympanometry test. Connect a second transducer to the blue connector for Contralateral Reflex testing.



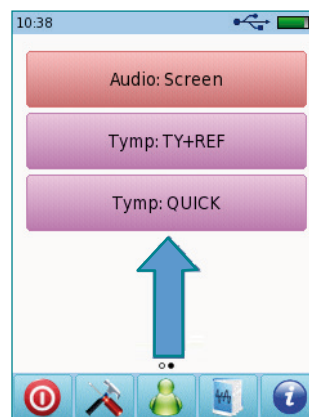
Select the appropriate ear tip size and place it on the probe tip. Insert the probe in the ear making sure that the ear tip fits tightly into the ear canal.

► Tympanometry and reflexes

Select one of the options in purple by tapping the corresponding button on the Full Color Touch Screen.

Tymp: TY + REF: 226 Hz Tymp with a 1 KHz ipsi screening reflex at 90 & 95 dB, Auto Start (see next page).

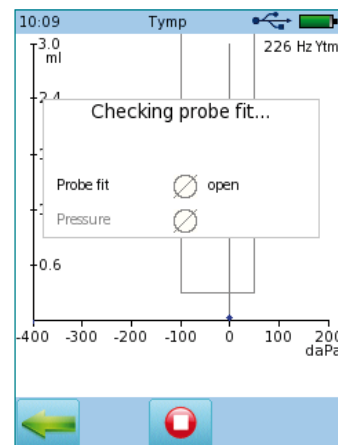
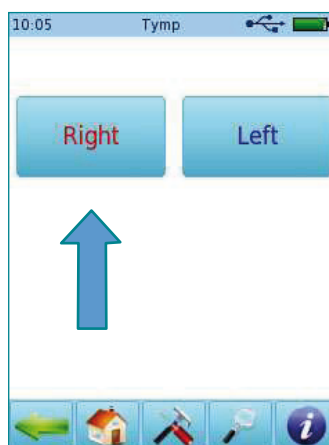
Tymp: QUICK: 226 Hz Tymp, Auto Start, As Fast As Possible, Stop when Result obtained.



Please make sure you have selected a tip, placed it on the probe and inserted it properly in the patient's ear so it fits securely. Clip the probe to collar or clothing.

Selecting an Autostart Protocol (screening shown here) will start the test automatically when right or left is selected. Make sure the tip is in the ear prior to choosing **Right** or **Left**. Check Probe Fit Screen appears (see picture at far right).

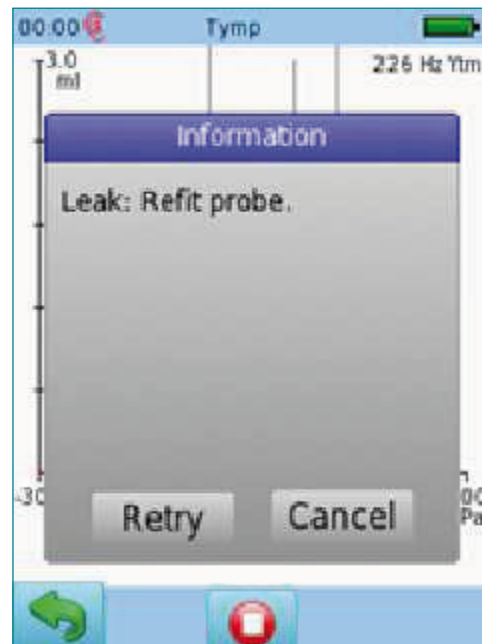
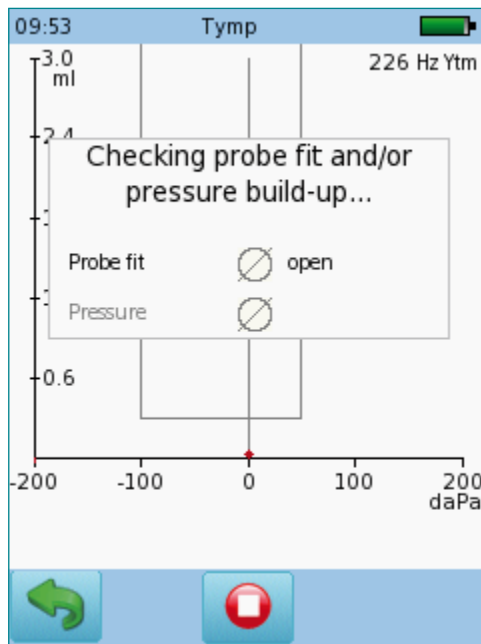
Once you receive green check marks by Probe Fit and Pressure, the test will proceed automatically.



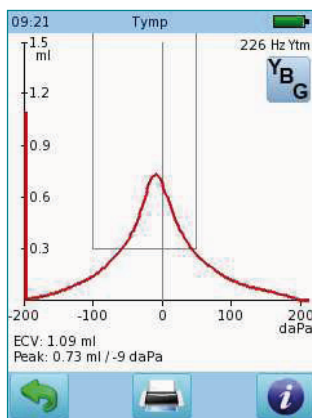
If you do not get green checks (above-open) during the calibration phase, check the probe fit, refit and retry.

► Tympanometry test screen

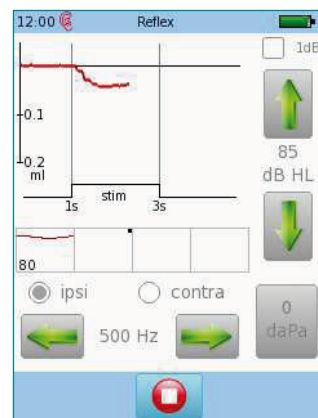
The system will first check the probe fit and wait for the pressure build up. The LED light on the probe will pulse at a steady pace to indicate a correct fit. During the test, if the probe fit is not correct, the LED light will blink at a fast pace and an error message prompting you to retry or cancel the test will appear on the screen.



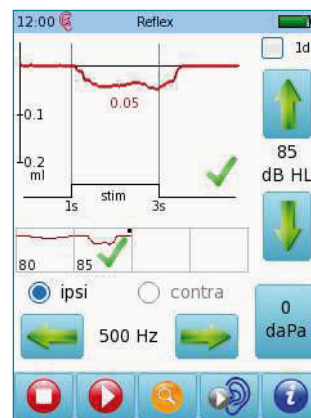
Once a proper seal has been obtained, the test will proceed. A tympanometry test will be performed, followed by a reflex measurement (when Tymp + 1kHz selected).



Tympanometry result



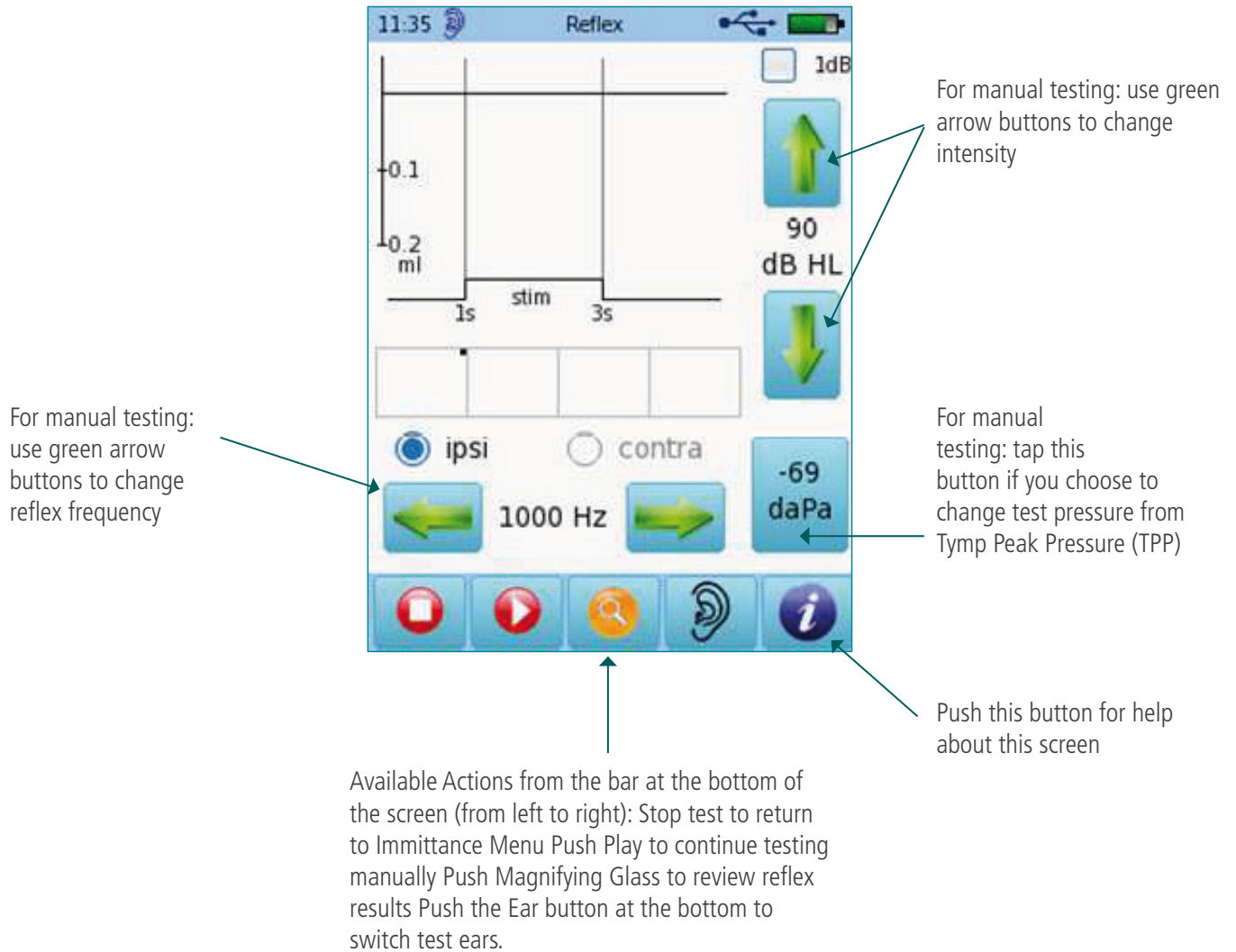
Reflex test in progress



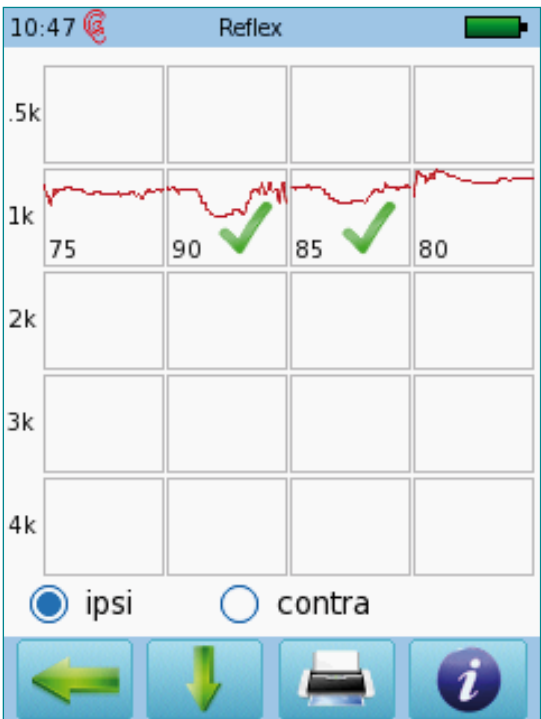
Reflex threshold found



Overall Reflex test result



If you push the Magnifying Glass button to view results, you will have the actions below available:



The screenshot shows the 'Reflex' test results screen. At the top, it displays the time '10:47', a signal icon, the title 'Reflex', and a battery level indicator. The main area is a grid with frequency labels on the left (.5k, 1k, 2k, 3k, 4k) and four columns of results. The 1k row shows values 75, 90, 85, and 80, with green checkmarks next to 90 and 85. Below the grid are two radio buttons labeled 'ipsi' (selected) and 'contra'. At the bottom is a row of four buttons: a left arrow, a down arrow, a printer icon, and an information icon.

Annotations with arrows pointing to the screen:

- Tap the result square to return to the test screen and repeat (points to the 1k row)
- Tap to return to Reflex test screen (points to the left arrow button)
- Tap to scroll down for more reflex results (points to the down arrow button)
- Tap to view Printing options (points to the printer icon button)
- Tap for on Board help about this screen (points to the information icon button)

Please note that the polarity of the reflex graphs can be configured in the device settings under Test Preferences/Tymp Preferences.

When you press the Stop Test button, a message box appears: **Stopping Measurement**, asking you if you would like to save the test data. If you choose **YES**, the data will be saved and test results will be displayed. If you choose **NO**, you will be taken back to the Module Selection. Choose **CANCEL** to stay on the test screen. View the Printing Quick Guide for Additional Information regarding printing your test data.

Note: While performing Tympanometry, holding the probe or moving your hand may cause noise or an error. This will cause the device to stop automatically and give you the message "Artifact?" If this happens, refit the probe, check tip size to make sure it fits securely in the ear canal opening, and retry by tapping on the red play button.

► Audiometry (screening)

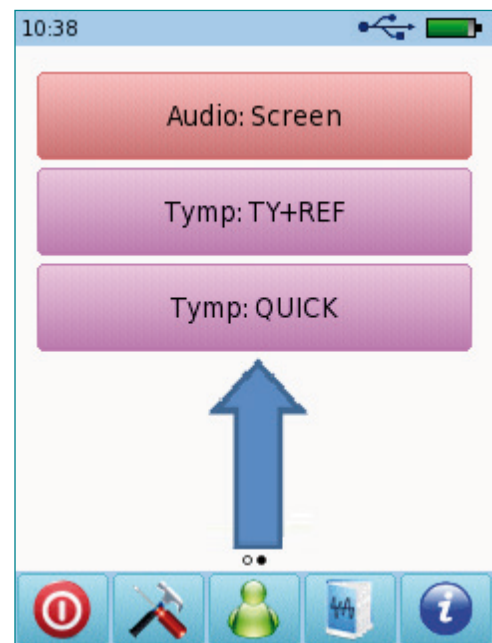
Select the Audiometry: Screening button from the start menu and connect the headphones to the blue connector. Select the ear on which you want to start the test.



► Audiometry

Select the Audio:
Screen button from the start menu

- Make sure that the device is turned on and that the headphones are plugged into the blue jack on the back of the device.
- Place the headphones over the patient's ears with the red colored connector on the cord of the headphone on the right ear and the blue one on the left ear.
- Position the patient looking away from the examiner controls
- Choose the ear to be screened by tapping on Right or Left in the Audio View.



▶ Audiometry test screen

Select the frequency

Select the ear to test

Stop test

Select the type of stimulus:

- pure tone —
- pulsed tone ...
- or warble FM

Select the stimulus levels

Press to present the stimulus

Additional information about options for current screen

4:05 Audio

AC Right

1 2 4

L

R

1000 Hz

40 dB

1 kHz

40 dB HL

As you present the stimulus, the current level will be displayed on the corresponding (yellow) square. Once the hearing status for a frequency has been identified, move on to the next frequency.

Tapping twice on a square will display NR (no response).

Tap three times to get back to a blank square.

Once all frequencies have been tested for one ear, you can test the other ear.

18:23 Audio

AC Right

1 2 4

L

R 30

1000 Hz

30 dB

1 kHz

30 dB HL

18:28 Audio

AC Right

1 2 4

L

R 30 NR

2000 Hz

30 dB

2 kHz

30 dB HL

18:29 Audio

AC Right

1 2 4

L

R 30 NR 35

4000 Hz

35 dB

4 kHz

35 dB HL

18:30 Audio

AC Left

1 2 4

L

R 30 NR 35

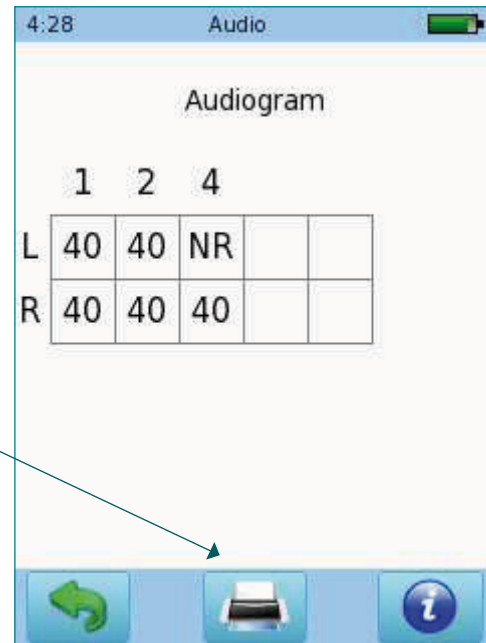
1000 Hz

35 dB

1 kHz

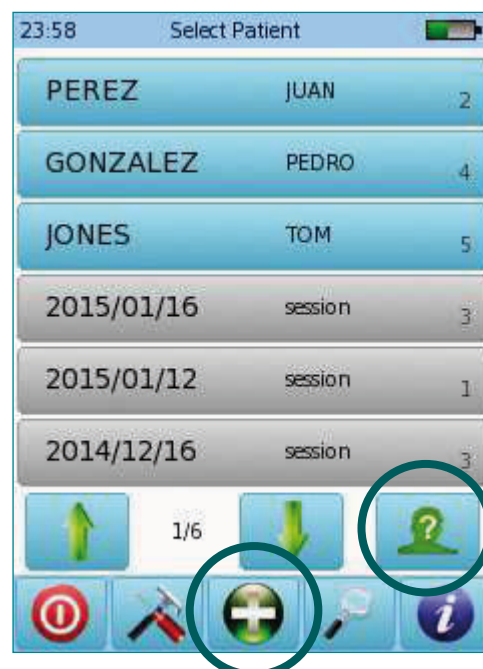
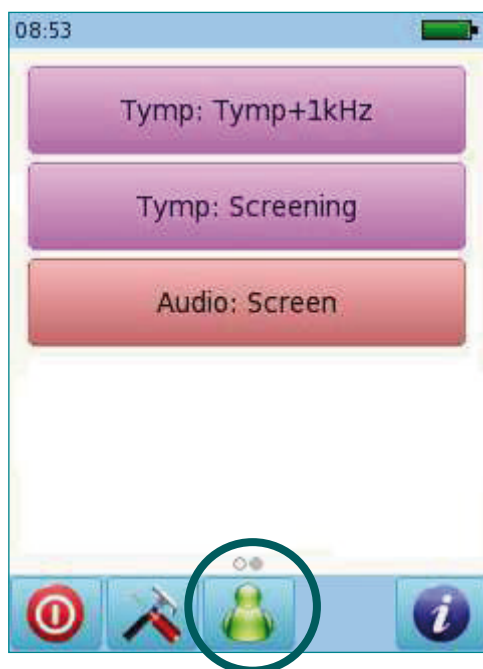
35 dB HL

When the test is finished, press the Stop button. You can add the patient's personal data, and save on the device, print to a label (a label printer is required) or print to a pdf file or full page report on PC.



Begin a new session by tapping the green patient icon at the center of the bottom bar and then tapping the icon (below right).

Start a new patient by tapping the icon. Or to add patient details before testing (only available in diagnostic devices)



Quick Guide Information

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