Earscan® 3

ES3S

Pure Tone Audiometer

Short-Form User's Guide

Rev 1.12



KEY USAGE

ES3S models have a green keypad/overlay with 5 unlabeled keys. Use {◀} / {►} to select digit position and {▲} / {▼} to scroll through digits when entering time, date, and ID numbers.

Key presses appear in $\{ \}$; e.g. $\{ \Delta \}$ means press the Δ key. Basic menu navigation is done using $\{ \Delta \} / \{ \nabla \}$ and $\{ \blacktriangleleft \} / \{ \triangleright \}$.

The O key is in the center of the navigation key array. {O} is used to **present tones** and to **select menu items**.

Menu sequences appear as **"MENU1 "MENU3 "MENU3**.

The "**r"** means "scroll to Menu Item and **{O}**" or "press the numeric key corresponding to the Menu Item".

When 'actions' or 'toggles' are displayed on the bottom line of the LCD, the row of keys just below the display are used as 'function' keys to perform an action, or to toggle between two possible parameter values.

Use {◄} / {►} to select digit position and {▲} / {▼} to scroll through digits when entering time, date, and ID numbers.

QUICK CHECKS

At power-up, the ES3 logo should scroll onto the **LCD**, appear quickly if scrolling is disabled, or not appear at all if ES3 was last powered down due to an inactivity timeout. The backlight should be on. The ES3 should display the **manual audiometry** screen and should respond to keypad control.

Keypad operation can be tested by pressing keys to see if the appropriate response occurs. The speaker should produce audible key press 'ticks' (menus only).

Set frequency to 1000 Hz and level to 70 dB HTL. Press **{O}** and a tone (pulsed or continuous) should be heard at a comfortable loudness level at the correct ear. Press **{△} {O}** and **{▼} {O}** to verify that signal loudness increases or decreases, respectively. Press **{**^a**f) {O}** and verify that the signal is presented to the other ear.

Plug in a **response button** and verify that pushing the button causes "*" to appear near the center of the display.

Enter menu sequence **"SETUP"DATE"SET TIME** and verify that time is correct and that seconds count is incrementing.

Attach printer, verify that printer output is selected via menu sequence
-Setup-Communications-Default Output, and transmit data to printer via -Send Data.

MENU TREE (FROM TOP LEVEL MENU)

MENU TREE (FROM TOP LEVEL	
1-Audiometry	Enter Manual Audiometry Mode
2-Display Results	Display audiometric test results
2 Diopidy Robalto	Biopiay addiomotrio toot roodito
3-Demographic Info	Enter patient demographic data
. 1-Patient ID	. Up to 21 digits
. 2-Operator ID	. Up to 21 digits
. 3-Prompt for ID numbers	. No / Yes
4-New Test	Begin a new test
5-Send Data	Transmit test data via serial port
3-Seria Data	Transmit test data via seriai port
6-Setup	Setup user options
. 1-Audiometry Setup	. Audiometry options
1-Frequencies	Select from list
2-Manual Audiometry	Manual audiometry options
1-Ear	Left / Right
2-Starting Level	10 / 15 / 20 / 25 / 30 / 35 / 40
3-Startnig Frequency	Select from list (1000)
4-Tone Mode	Pulsed / Continuous
5-Increment Amount	5 / 10 / 20
6-Decrement Amount	5 / 10 / 20
7-Binaural Stimulus	No / Yes
3-Auto Screening	Automatic screening options
1-Ear	Left / Right
2-Frequencies	Select from list
3-Levels	Select from list
4-Direction	Up / Down
. 2-Communications	. Serial communications options
1-Default Output	Printer / Computer
2-Baud Rate	9600 / 28.8 / 57.6 / 115.2
3-Insert Linefeed	No / Yes
. 3-Date	. Date options
1-Set Date Format	MM/DD/YYYY or DD/MM/YYYY
2-Set Date	Enter date (use current date format)
3-Set Time Format	24 Hour / 12 Hour
4-Set Time	Enter time (use current time format)
. 4-Power	. Power handling options
1-A/C	When operating on A/C or USB power
1-Backlight	Never / 30 sec / 1, 2, 5 min
2-Power Down	Never / 1, 5, 15 , 30 min / 1 hour
2-Battery	When operating on battery power
1-Backlight	5, 10, 20 , 30 sec / 1 min
2-Power Down	15, 30 sec / 1 , 2, 5 min
. 5-Display	. Display setting options
1-Contrast	Adjust as desired
2-Brightness	Adjust as desired
3-Scroll Logo	No / Yes
. 6-Beep Volumes	. Volumes for key 'tick' and audible alerts
1-Key Volume	Low / Medium / High

2-Alert Volume . 7-General 1-Calibration Dates 2-Perform Calibration 1-Calibrate Primary 1-Headset Type 2-70 dB HTL 3-85 dB SPL 4-Calibration Date 5-Audiometer Test 6-Send Data 2-Calibrate Secondary 1-Headset Type 2-70 dB HTL 3-85 dB SPL 4-Calibration Date 5-Audiometer Test 6-Send Data 3-Headset for Testing . 4-Language . 5-Earscan 3 Info 6-Lock Settings	Low / Medium / High . Other options and information Display last calibrated and due dates Password protected Primary headset calibration options TDH-39 / EAR-5A Set target level to 70 dB HTL Set target level to 85 dB SPL Set cal date to current? Yes / No Tone "On" calibration test mode Transmit cal data via Serial Port Secondary headset calibration options TDH-39 / EAR-5A Set target level to 70 dB HTL Set target level to 70 dB HTL Set target level to 85 dB SPL Set cal date to current? Yes / No Tone "On" calibration test mode Transmit cal data via Serial Port Transmit cal data via Serial Port Primary / Secondary . English / TBD . Displays information screen . Password protected
. 8-Reset Settings	Password protected . Yes / No
. 0-iteset settings	. 1637 NO
7-Turn Off	Turn instrument off

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