

8/27/2019

GSI AudioStar Pro: New Features for Firmware v2.0



Course presented in partnership with
CONTINUED

Agenda

- Overview
 - What's new with 2.0
 - Device Navigation
- Testing
 - Standard
 - Speech Testing
 - QuickSIN
 - BKB-SIN
- Configuration Application
 - Customize Default Settings
 - Customize Favorites



Course presented in partnership with

continued

Learning Outcomes

After this course, participants will be able to:

- Explain how to load custom default test settings into the AudioStar Pro clinical audiometer.
- Explain how to quickly transition between standard audiometric evaluations (such as pure tone and speech) to special tests such as the QuickSIN.
- Explain how to perform efficient comprehensive diagnostic audiometric evaluations using the AudioStar Pro clinical audiometer.



Course presented in partnership with

CONTINUED

GSI AudioStar Pro™ – Key Features

- Fast, accurate testing
- Color interactive display
- Integrated wave files
- Integrated special tests
 - TEN test
 - QuickSIN
 - BKB-SIN
 - Legacy Special Tests
- High frequency – to 20 kHz
- Assistant monitor



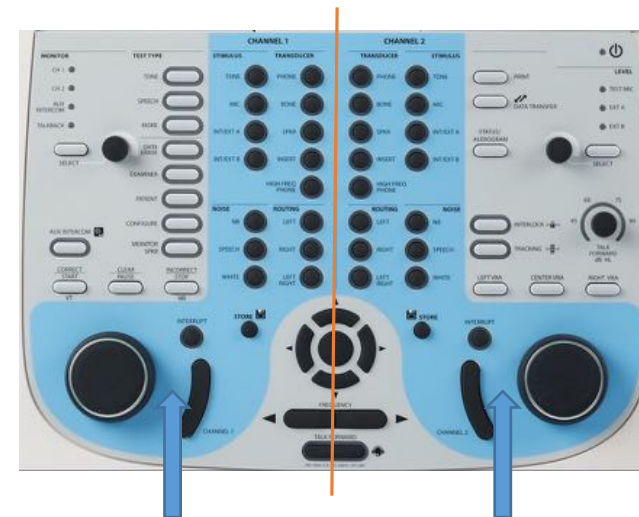
Course presented in partnership with

CONTINUED

2 Channel Audiometer

Full Routing Capacity

Routing	1.5 Channel Audiometer	AudioStar Pro
Channel 1 Narrow Band Noise	No	Yes
Same Ear Speech Stimuli and Speech Noise	No	Yes
Same Ear Tone and Narrowband Noise	No	Yes
Channel 1 Tone/Channel 2 Speech	No	Yes
Channel 1 Speech/Channel 2 Tone	No	Yes
Masking Stimuli in Channel 1	No	Yes
Binaural Masking	No	Yes



Course presented in partnership with

continued

AudioStar Pro v 1

- Current version is 1.5.X
- No more functionality updates will be released for this product
- ASP v 2.0 new features cannot be obtained for current (v1) ASP's
- Utilizes old format for loading integrated .wav files



Course presented in partnership with

CONTINUED

What's New With the AudioStar Pro?

- AudioStar Pro firmware v2.0 is the newly updated 'model' of the AudioStar Pro.
- It encompasses hardware changes, control panel changes, new display, new firmware, new OS, new Config App.



Course presented in partnership with
continued

ASP 2.0 is Fast

- Start Up—less than 1 minute
- Updating configuration? Seconds
- Transitions between test types, faster
- Word presentation, faster
- Auto Play faster



Course presented in partnership with

CONTINUED

Hardware Changes

- High Resolution Display
- Control Panel



New Buttons

- No more High Hz Button
- Added a Monitor Speaker
- Center VRA added

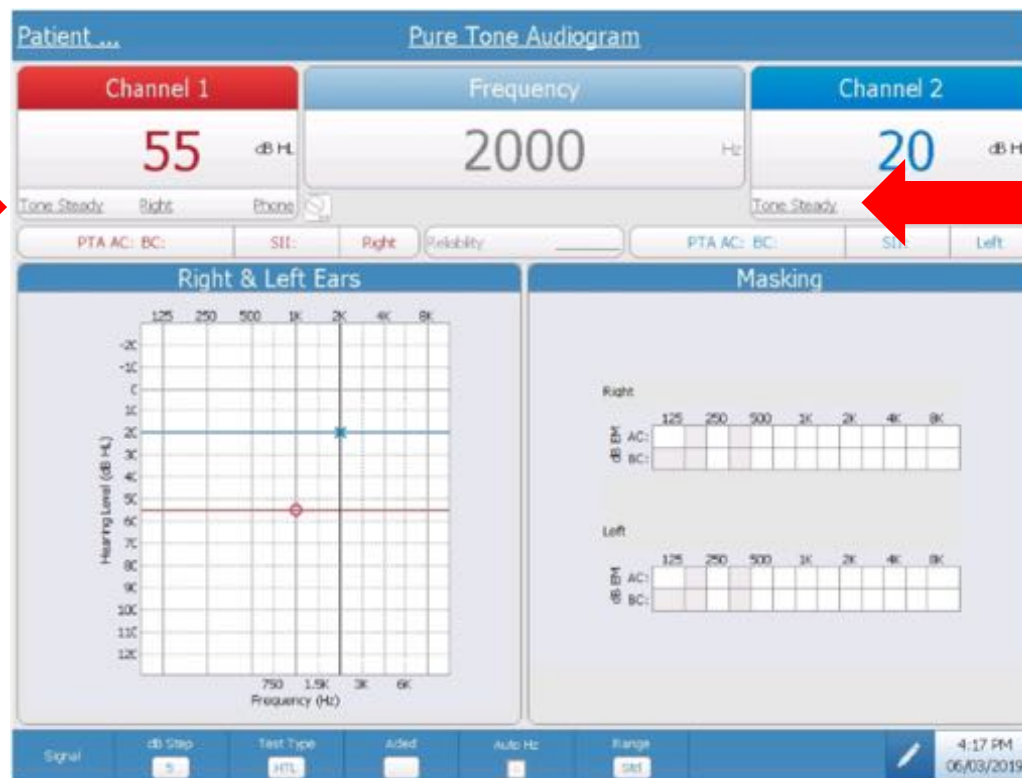


What's New in Tone Test?



Color Coded Intensity Combined View

Tone – Tone selected

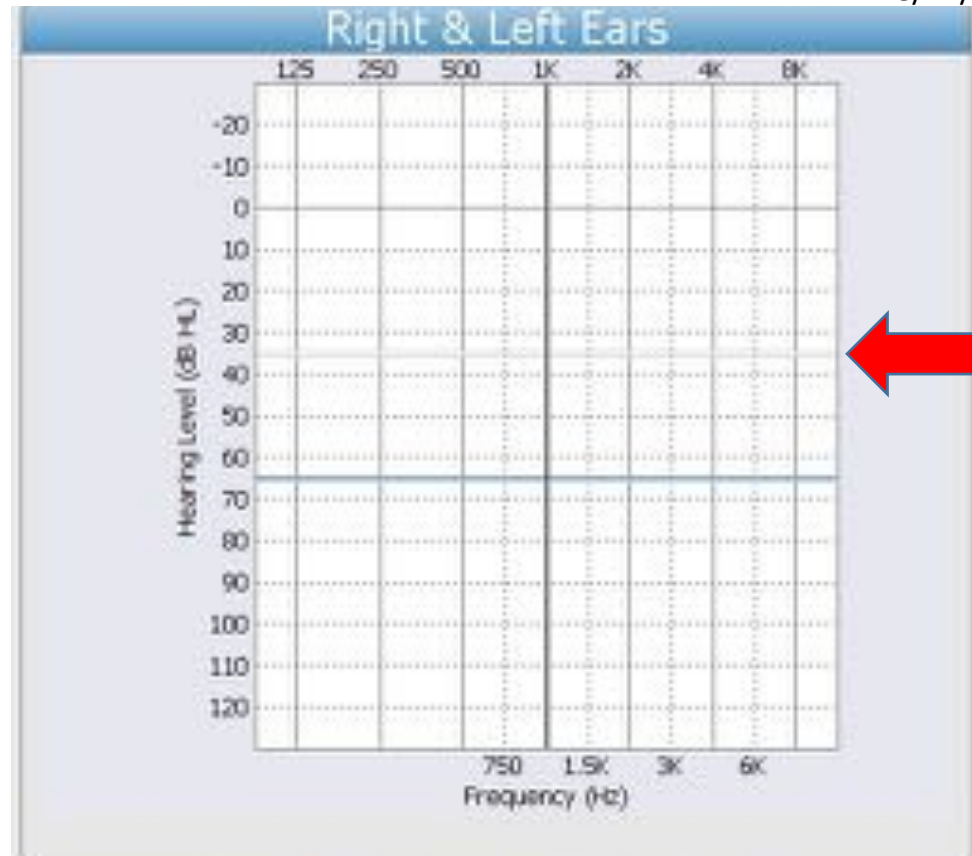


Course presented in partnership with

CONTINUED

Masking Level Indicator

Tone - Noise selected



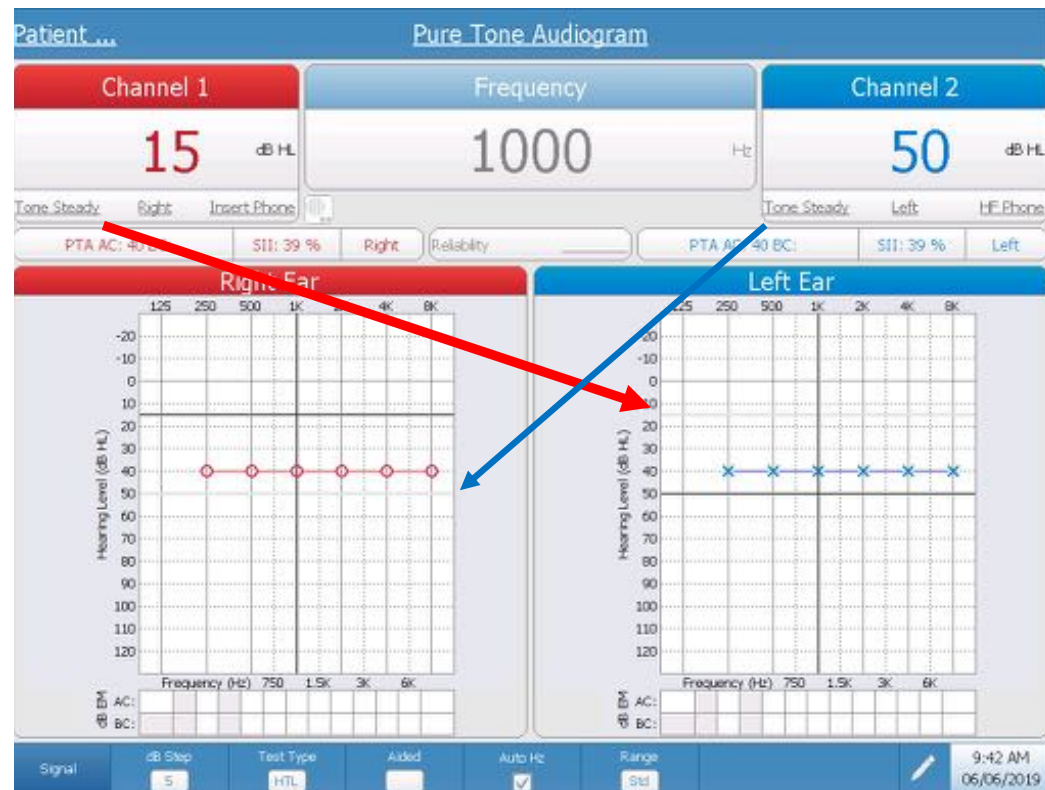
Course presented in partnership with

CONTINUED

Opposite Channel Indicator

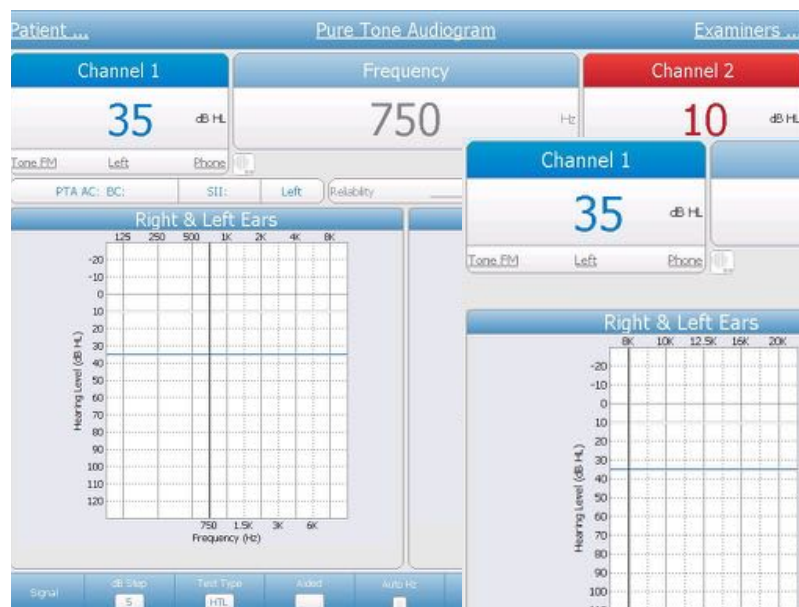
Audiogram in separated view

Tone – Tone selected



Course presented in partnership with

CONTINUED



- No more High Hz
- use “Range” to scroll through options



New: Table View

- Right and Left ear results on same screen
- Air, bone, SF results
- Frequencies appear when thresholds stored

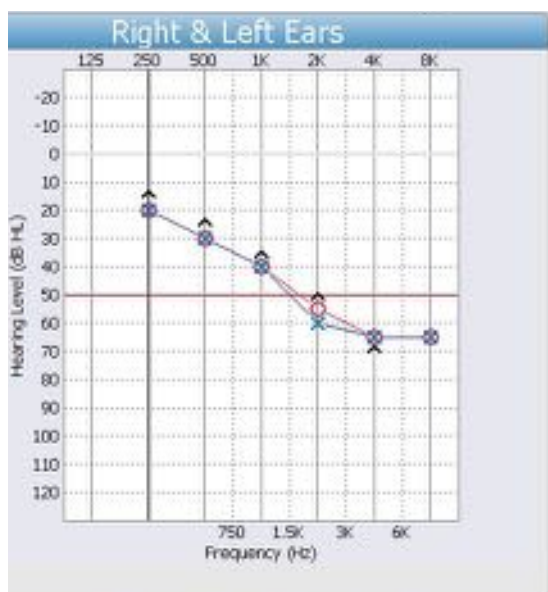
Patient...										Pure Tone Table										Examiners...									
Channel 1										Frequency										Channel 2									
55										750										0									
dB HL										Hz										dB HL									
Tone (EM)																				Tone (EM)									
Left										Right										Right									
Phone										Speaker										Speaker									
PTA AC: 47 BC: 47										PTA AC: BC:										PTA AC: BC:									
SII: 19 %										SII:										SII:									
Left										Reliability										Right									
Test Results - HTL										Page 1/2										Test Results - HTL									
Hz										Hz										Hz									
AC (dB)										AC (dB)										AC (dB)									
BC-M (dB)										BC-M (dB)										BC-M (dB)									
BC-F (dB)										BC-F (dB)										BC-F (dB)									
SPK (dB)										SPK (dB)										SPK (dB)									
HL / EM HL										HL / EM HL										HL / EM HL									
125										125										125									
250										250										250									
500										500										500									
750										750										750									
1000										1000										1000									
1250										1250										1250									
2000										2000										2000									
4000										4000										4000									
6000										6000										6000									
6300										6300										6300									
Signal										dB Step										Test Type									
5										HTL										Auto Hz									
Range										Std										Fine Hz									
Std										Std										11:56 PM									
03-20-2019																													



Course presented in partnership with

CONTINUED

New Symbol: Bone Unspecified ^



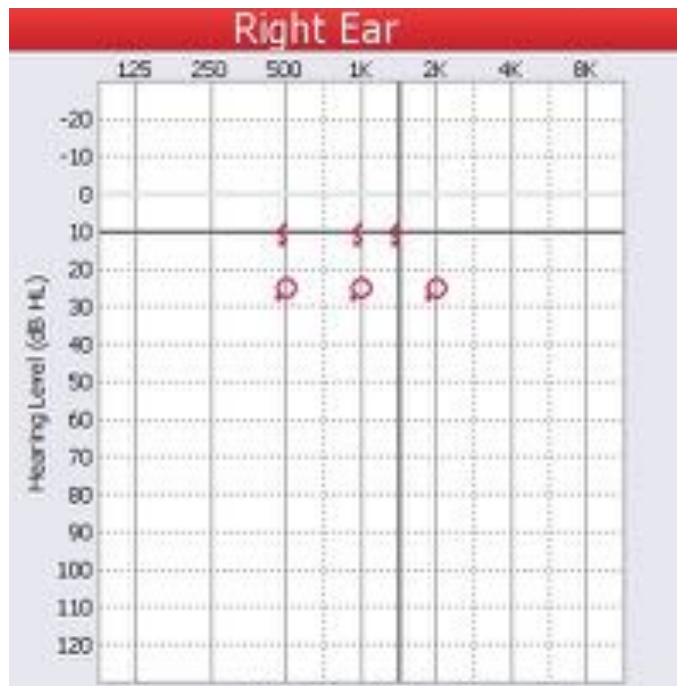
Course presented in partnership with

continued

New Symbols: Vibrotactile (coming soon)



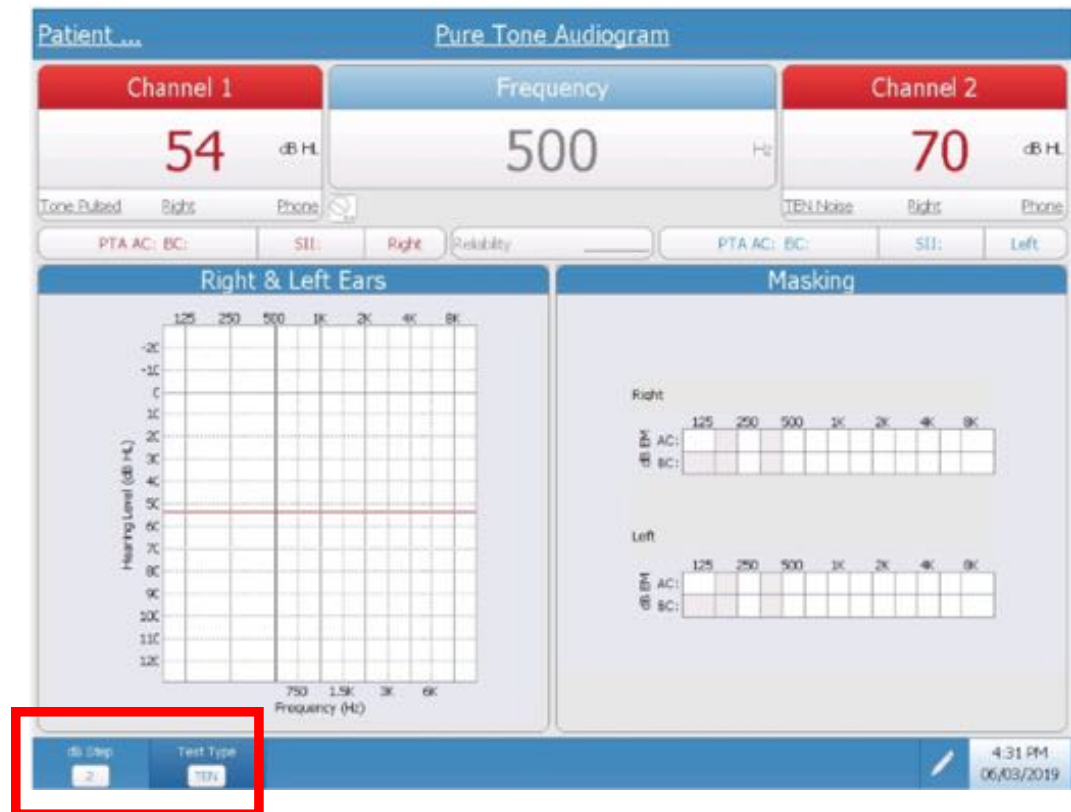
Review



Course presented in partnership with
continued

TEN Test

- New Location
- High Freq headphones added
- Any transducer may be used

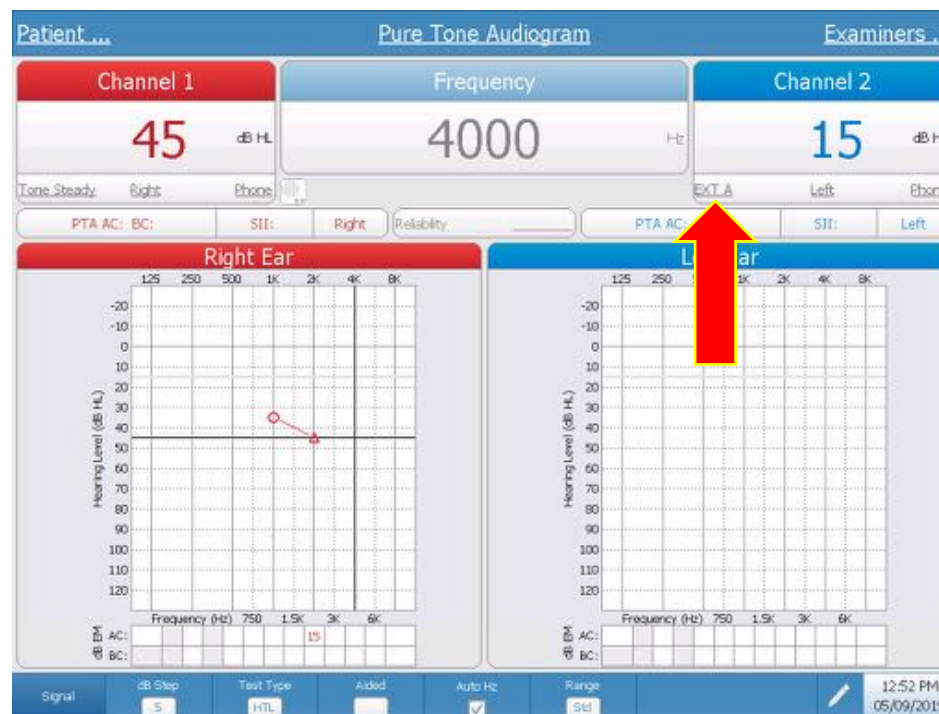


Course presented in partnership with

CONTINUED

Ext in Tone

Useful in testing pediatrics



Course presented in partnership with

CONTINUED

Inserts-Phone

Can now route Channel 1 and Channel 2 to different transducers simultaneously



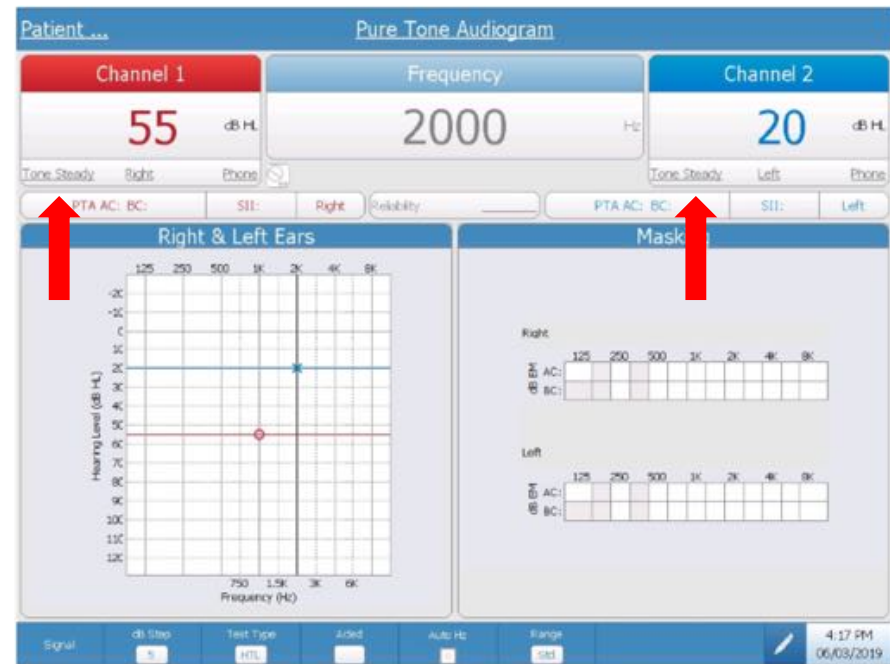
Course presented in partnership with

CONTINUED

Independent store buttons

If one channel is set to Tone and other NBN pressing *either* Store button stores the same/appropriate Tone symbol.

If Both channels are set to Tone stimulus pressing Store in Channel 1 stores the Channel 1 result. Channel 2 store button stores the Channel 2 result.



What's New in Speech?

- Store *unlimited* number for speech results
- Displays 8 results per ear
- 25 words displayed on screen
- Channel 2 can be primary channel for internal word lists
- Channel specific Store buttons
- *SPEED*
- *New format for integrated.wav files*



New Speech Screen

Patient... Speech Table Examiners...

Channel 1

75 dB HL

INT A Left Phone

20 -10 -5 -3 -2 -1 1 2 3

PTA AC: BC: SII: Left Reliability

Score - WRS

0 %

all

Channel 2

0 dB HL

Speech Noise Right Speaker

20 -10 -5 -3 -2 -1 1 2 3

PTA AC: BC: SII: Right

Speech Test Results Page 1/2

Ear	Test Type	INT Ext MIC	Word Lists	Aid	%	dB HL	dB EM
L	SRT	INT	Spondee A			25	
L	WRS	INT	NU-6 LIST 2A		100	45	
L	WRS	INT	NU-6 LIST 2A		100	55	
L	WRS	INT	N/A		0	65	
L	WRS	INT	NU-6 LIST 3A		100	65	
L	WRS	INT	CID W-22 LIST 1A		100	65	
L	WRS	INT	CID W-22 LIST 3A		83	65	
L	WRS	INT	CID W-22 LIST 4A		100	75	

Ear	Test Type	INT Ext MIC	Word Lists	Aid	%	dB HL	dB EM
R	SRT	INT	Spondee A			25	

Basic Auditory Test - Adult - CID W-22 LIST 1A Page 1/2

all	wood	at	where	chin
they	dolls	so	nuts	ought
in	net	my	leave	of
hang	save	ear	tea	cook
th	bread	why	arm	yet

Test Type Word Lists Hold Test Repeat Cancel S

12:45 AM 03-21-2019

presented in partnership with

continued

Channel 2 Int Wav Files

Patient... Speech Table Examiners...

Channel 1		Score - SRT		Channel 2	
45 dB HL		0 %		80 dB HL	
Speech Noise	Right	Doormat		INTA	Left
PTA AC: BC: SII: Right Reliability				PTA AC: BC: SII: Left	

Speech Test Results						Speech Test Results									
Ear	Test Type	INT Ext MIC	Word Lists	Aid	%	dB HL	dB EM	Ear	Test Type	INT Ext MIC	Word Lists	Aid	%	dB HL	dB EM
L	SRT	INT	Spondee A			0		L	SRT	INT	Spondee A			80	-45
L	SRT	INT	Spondee A					L	SRT	INT	Spondee A				

Word Lists: Playground, Daybreak, Northwest, Mushroom, Doormat, Eardrum, Iceberg, Padlock, Sunset, Duck pond, Cowboy, Inkwell, Baseball, Whitewash, Oatmeal, Greyhound, Hot dog, Mousetrap, Airplane, Headlight, Hothouse, Stairway, Woodwork, Drawbridge, Armchair

Test Type: Word Lists Word Nav Aid dB Step 5 12:50 AM 03-21-2019



Course presented in partnership with

continued

AudioStar Pro: Basic Navigation



Overview – Important Buttons

8/27/2019



Course presented in partnership with

continued

Navigation Pad – “Nav pad”

8/27/2019



Allows you navigate the on screen menus
Used to navigate .Wav files and trigger some speech tests



Course presented in partnership with

CONTINUED

Test Type Buttons

- Short cut keys to prepare for different audiologic tests
- Tone and Speech will set up the AudioStar Pro with default transducers, levels and routing with one button press
- More displays the special tests



Function Buttons



- **Data Erase**
 - Single data point
 - The last curve
 - Clear session data
- **Examiner**
 - Displays a list of examiners that may be assigned to each test session.
- **Patient**
 - Enter patient demographics
 - Select a patient from the patient list
 - Import a patient list
 - Transfer, load and delete sessions
- **Monitor Speaker**
 - Independent patient monitor (can be used when mic monitor headset is plugged in)




Configure

- View the instrument information
 - Serial number
 - Software version
 - Set the date and time
 - Configure bone conduction
 - Set the print format
 - Enable/disable the Aux Intercom
 - Adjust the screen brightness
 - Update sound files

Patient...

Configuration



Instrument			
App Version	2.0.1 (Build 9) (CRC 540275963)	Login	No Login Required
DSPAud Version	2.21 (04/01/2019 12:47)	Language	English (United States)
OS Version	2019, 2, 2019	Symbol Set	USA
Serial Number	FP10271	Bone	Mastoid
License number	47615088	Assistant Headset	On
Free Disk Space	78.84 MB	Display Brightness	100
Free SD Card Space	8.35 GB	Mode	
Last Calibration	04/02/2062	Next Calibration	04/02/2063

Transducer		Right	Left
Headset Phone	DD45	45r	45l
Insert Phone	IP30	p30r	p30l
High Frequency Phone	DD490	WT000841	WT000841
Bone Conductor	B81	81r	



Update

Bone

Mastoid

Assistant Headset

Export Logs



8:20 AM
08/26/2019

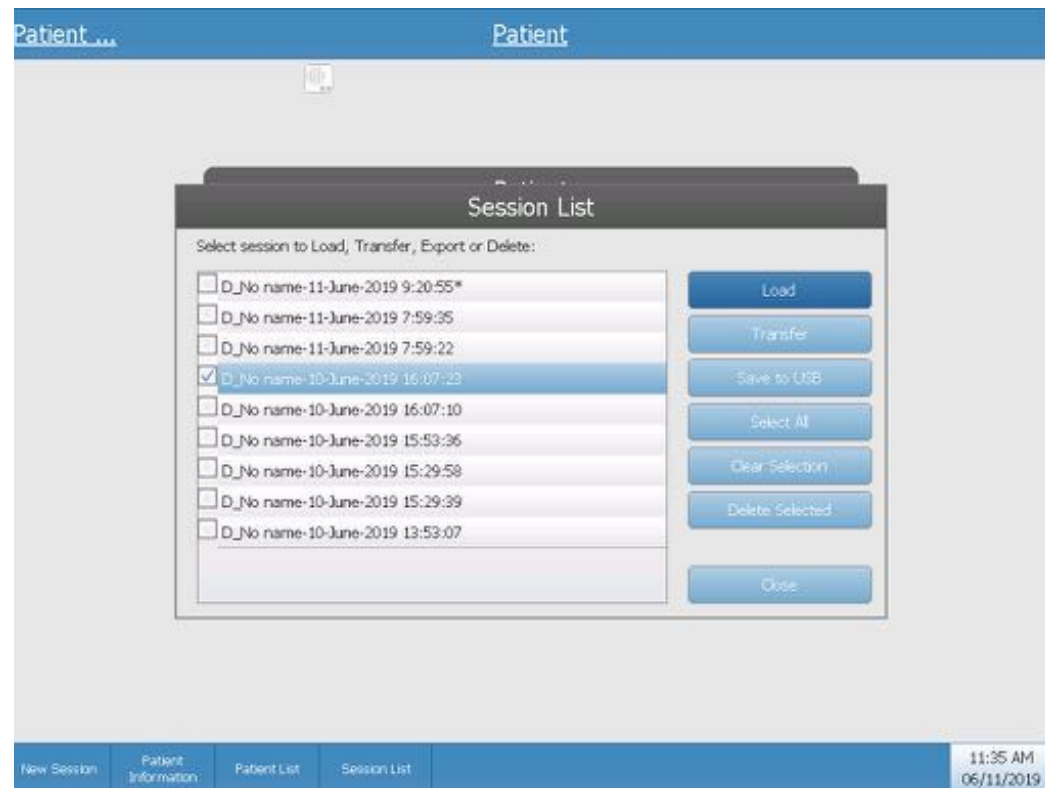


Course presented in partnership with

CONTINUED

Patient Screen

- New: Load Previous Session
- Transfer sessions
- Save to a USB
- Delete



8/27/2019

AudioStar Pro v 2.0

Navigating the user interface



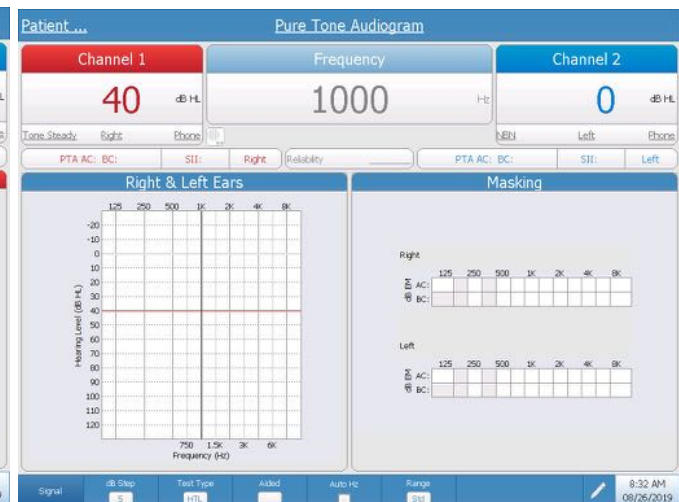
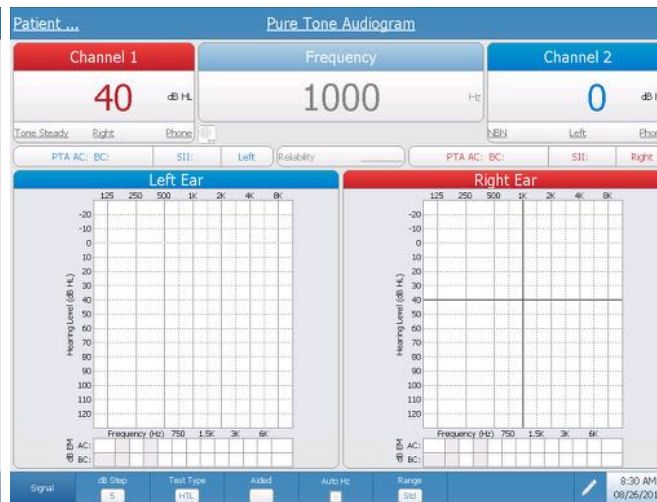
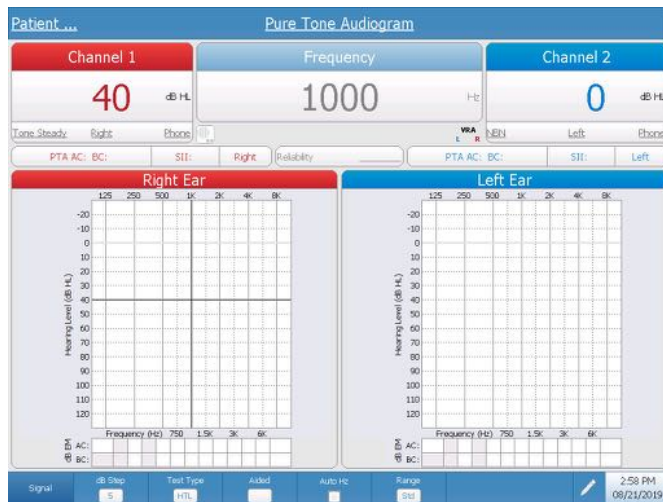
Course presented in partnership with

CONTINUED

Tone Screen Orientation

3 view options

(press and hold 'Tone' button for 3 seconds to scroll through them)



Course presented in partnership with

CONTINUED

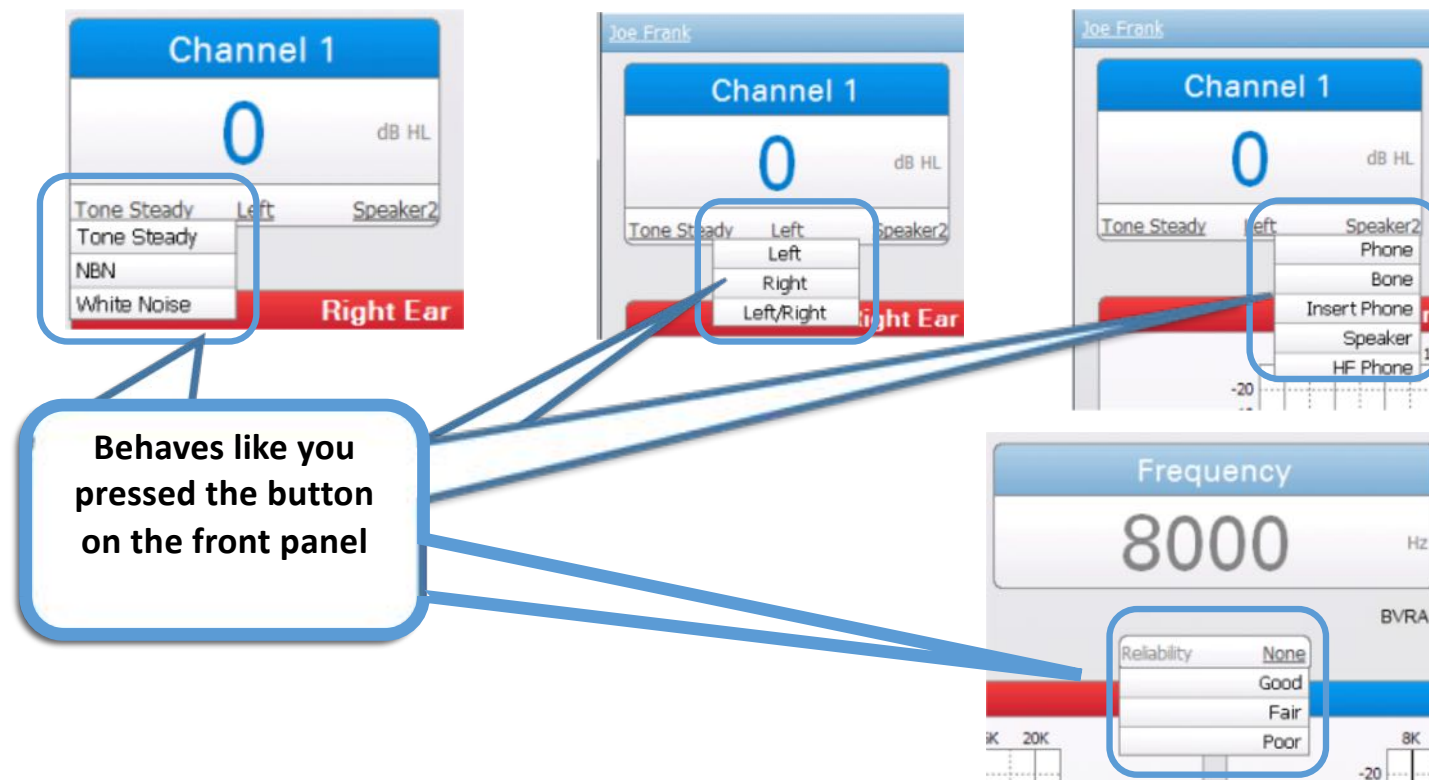
Drop Down Menu- Screen Navigation

When using a mouse with the ASP



Course presented in partnership with

CONTINUED



Navigation Menu



Signal Modifications

- FM
- Pulsed
- FM / Pulsed
- Ped Noise
- PN / Pulsed
- Lock menu

dB Step Size

- 1
- 2
- 5

Test Type

- HTL
- MCL
- UCL
- Tinn
- **TEN**

Aided

- Blank
- Aided (HA)
- Cochlear Implant (CI)

Auto Hz

- Active
- Manual

Range

- Standard
- High
- Full



Course presented in partnership with

CONTINUED

Signal Menu

- Can be selected with Nav Pad or Mouse
- Can be locked for easier access

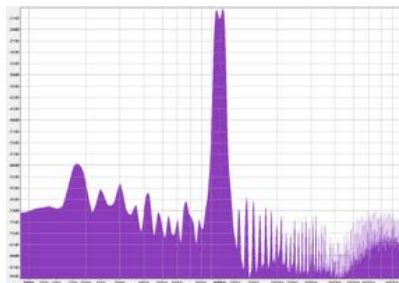


Course presented in partnership with
continued

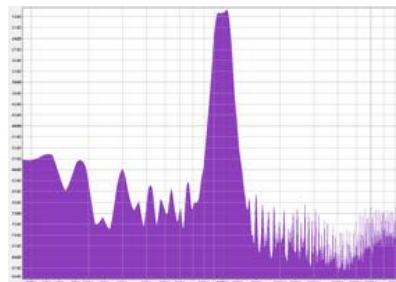
Pediatric Noise



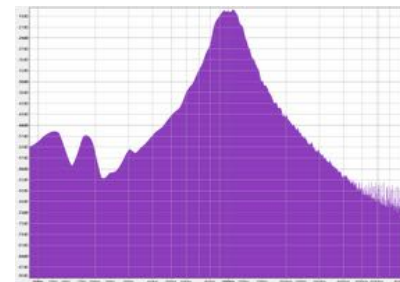
- New signal type that offers frequency specificity
- Narrow band noise with sharp slopes
- Presented at HL levels
- Alternative stimulus type for threshold testing



Frequency Modulated (Warble) Tone



Pediatric Noise



Narrow Band Noise



Course presented in partnership with

continued

Comments



- Must use external keyboard
- Can be viewed / edited in any screen
- Toggle Stenger results for Speech and tones
- Reliability

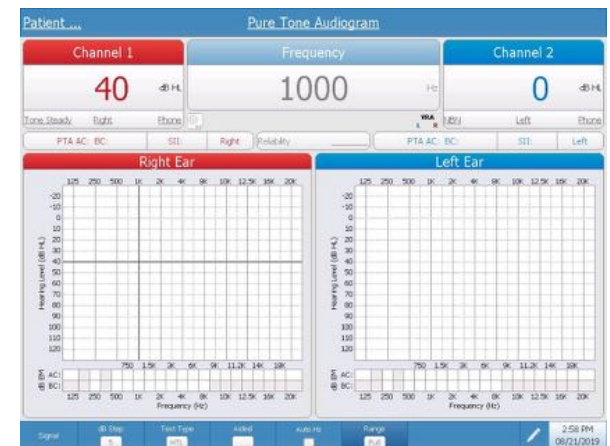
Comments:

Clipboard Copy Paste Scissors Pencil Stenger Speech Off Stenger Tone Off Reliability Cancel Save



Range Standard / High / Full

Ability to test full range with HF Phones (DD450)



Course presented in partnership with

CONTINUED

Status Audiogram / Fine Hz

Displayed in a tabular format

Hz, dB HL, dB EM

Use Fine Hz for octave band frequency resolution and single Hz resolution

Patient... Pure Tone Table

Channel 1		Frequency	Channel 2	
40 dB HL		1000 Hz	0 dB HL	
Tone Steady	Right	Phone	NEB	Left
PTA AC: 35 BC: 32		SII: 37 %	Right	Reliability
PTA AC: BC:		SII:	Left	

Test Results - HTL						Test Results - HTL					
Hz	AC (dB)	BC-M (dB)	BC-F (dB)	SPR (dB)	SPR-B (dB)	Hz	AC (dB)	BC-M (dB)	BC-F (dB)	SPR (dB)	SPR-B (dB)
	HL	HL / EM HL	HL / EM HL	HL / EM HL	HL / EM HL		HL	HL / EM HL	HL / EM HL	HL / EM HL	HL / EM HL
250	15					250					
500	20	20				500					
1000	35	30				1000					
2000	50	45				2000					
3000	60					3000					
4000	70	65				4000					
6000	80					6000					
8000	85					8000					

Signal dB Step Test Type Aided Auto Hz Range Fine Hz

5 HTL 3:23 PM 08/21/2019



Course presented in partnership with

CONTINUED

8/27/2019

Speech Testing



Course presented in partnership with
continued

- Pulls all “favorites” assigned to the various test types
- Access any list in library

[illegible]

Navigation Menu



Test Type

SRT

SDT

WRS

SRS

MCL

UCL

T's are Threshold test

S's are scored tests

Test Type is selected prior to selecting the actual list

Determines how tests are scored and labeled

Individual tests can be assigned test types using the config. app



Course presented in partnership with

CONTINUED

Word lists

- Favorites
 - Set up by config app
- Source
 - Internal A/B or external source
- CD name
- Word lists associated with selected CD

The screenshot displays the GSI Speech Table software interface. A 'Word List' dialog box is open, allowing configuration of word lists for testing. The dialog box includes a 'Favorites' section with a list of available word lists, a 'CD Name' dropdown menu, and a 'Word List' dropdown menu. The 'CD Name' is currently set to 'Basic Auditory Tests - Adult' and the 'Word List' is set to 'NU-6 LIST 2A'. The background shows the 'Speech Table' interface with 'Channel 1' at 40 dB HL and 'Channel 2' at 0 dB HL. A table of word lists is visible at the bottom of the screen.

Test Type	Word Lists	Word Name	Aided	dB Step
				5



Course presented in partnership with

CONTINUED

Integrated Speech Tests from the factory

AZ Bio

AZ Bio Pediatric

Auditec Basic Adult (I and II) and Child

Spanish Auditory Speech List

DOD/VA CDs (CD 1, 2, and 4)–

PBK Female

WIPI

Tonal/APD style



Course presented in partnership with

CONTINUED

Word Nav

Manual

- Moves cursor control to word lists
- Scroll to individual words for presentation

Auto Advance

- Moves to the next word in the list after the previous word is scored (Correct / Incorrect)

Auto Advance Wordlist

- Moves to the next test in favorites list (set by config. App)
- Will advance only to lists in the same test type

AutoPlay Timeout (sec)

- Time between word presentations
- Used with interrupt button
- Preferences set with config. app for scoring

Patient ... **Speech Table**

Channel 1		Score - SRT		Channel 2	
40 dB HL		0 %		0 dB HL	
INT A	Right Phone	Playground		Speech Noise	Left Phone
-20 -10 -5 -3 -2 -1 0 1 2 3				-20 -10 -5 -3 -2 -1 0 1 2 3	
PTA AC: 35 BC: 32		SII: 37 % Right Reliability		PTA AC: BC: SII: Left	

Speech Test Results						Speech Test Results									
Ear	Test Type	INT Ext MIC	Word Lists	Aid	%	dB HL	dB EM	Ear	Test Type	INT Ext MIC	Word Lists	Aid	%	dB HL	dB EM

Basic Auditory Tests - Adult / Spondee A Page 1/2

Playground	Daybreak	Northwest	Mushroom	Doormat
Eardrum	Iceberg	Padlock	Sunset	Duck pond
Cowboy	Inkwell	Baseball	Whitewash	Oatmeal
Greyhound				Bedlight
Hothouse				Tramcar

Manual ☒ Auto Advance ☒ Auto Advance Word List ☒ AutoPlay Timeout (sec) 5 Close

Test Type Word Lists Word Nav Aided dB Step 5 3:24 PM 08/21/2019



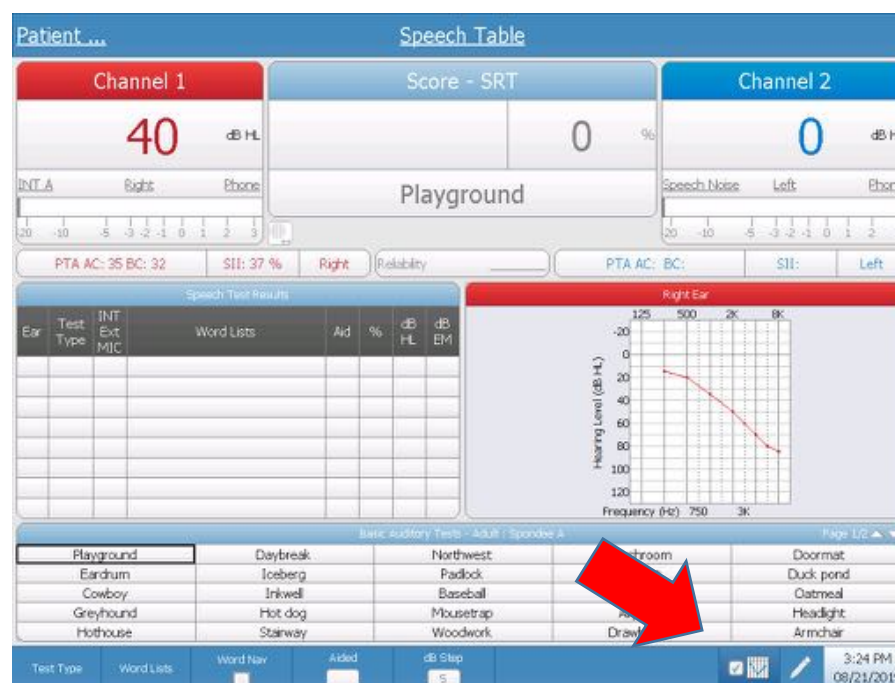
Course presented in partnership with

CONTINUED

Display Pure Tone Audiogram



Helpful reference that eliminates switching back and forth between Tone and Speech screens

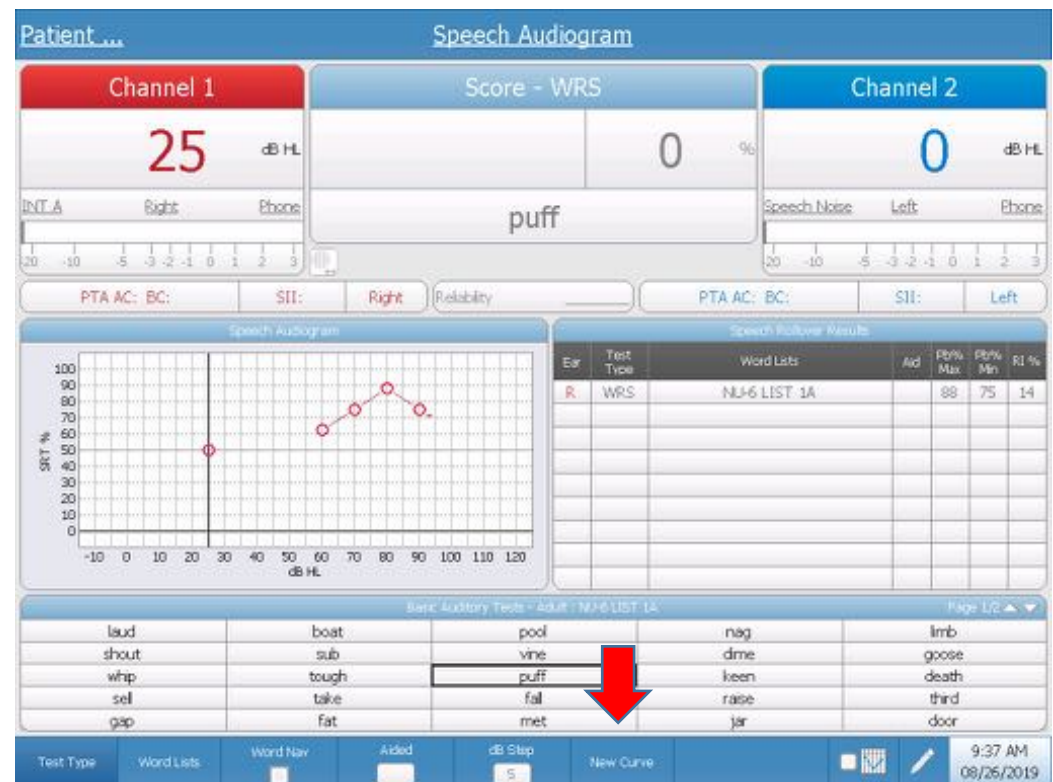


Course presented in partnership with

CONTINUED

Speech Audiogram

- Accessible by pressing Status / Audiogram hard key
- Graphic format that has the Rollover Index Table
- Replaces Speech Test Results with Speech Audiogram and Rollover Table
- New Curve added to menu
- SRT plotted on Speech Audiogram at 50% on the corresponding level
- AudioStar will determine PIPB (Performance Intensity function for Phonetically Balanced words)
- Scored when 2 or more WRS test results stored at different intensities
- Results calculated in Rollover table (RI-Rollover Index)



Course presented in partnership with

CONTINUED

Instructions for .Wav files with stimuli on both channels

- Select the speech word list to be presented to the patient.
- Ensure that Channel 1 stimulus is set to INT/EXT A
- Ensure that Channel 2 stimulus is set to INT/EXT B
- Select INTERLOCK to ensure that the two channels present simultaneously
- Press interrupt on Channel 1 to launch test



Special Testing with AudioStar Pro





Special Tests

Legacy Tests

- ABLB
- SISI
- Tone Decay

Tone Decay

Tone Decay

Channel 1: 25 dB HL
Frequency: 1000 Hz
Channel 2: 0 dB HL

Timer: 0:00

NOTE: Display results will not be saved. Use Comments to describe test results for printout and for transfer to GSI Suite.

SISI

Channel 1: 0 dB HL
Frequency: 1000 Hz
Channel 2: -10 dB HL

Right				Left			
Hz	dB HL	SISI (dB)	%	Hz	dB HL	SISI (dB)	%

NOTE: Display results will not be saved. Use Comments to describe test results for printout and for transfer to GSI Suite.

ABLB

Channel 1: 40 dB HL
Frequency: 1000 Hz
Channel 2: 0 dB HL

NOTE: Display results will not be saved. Use Comments to describe test results for printout and for transfer to GSI Suite.



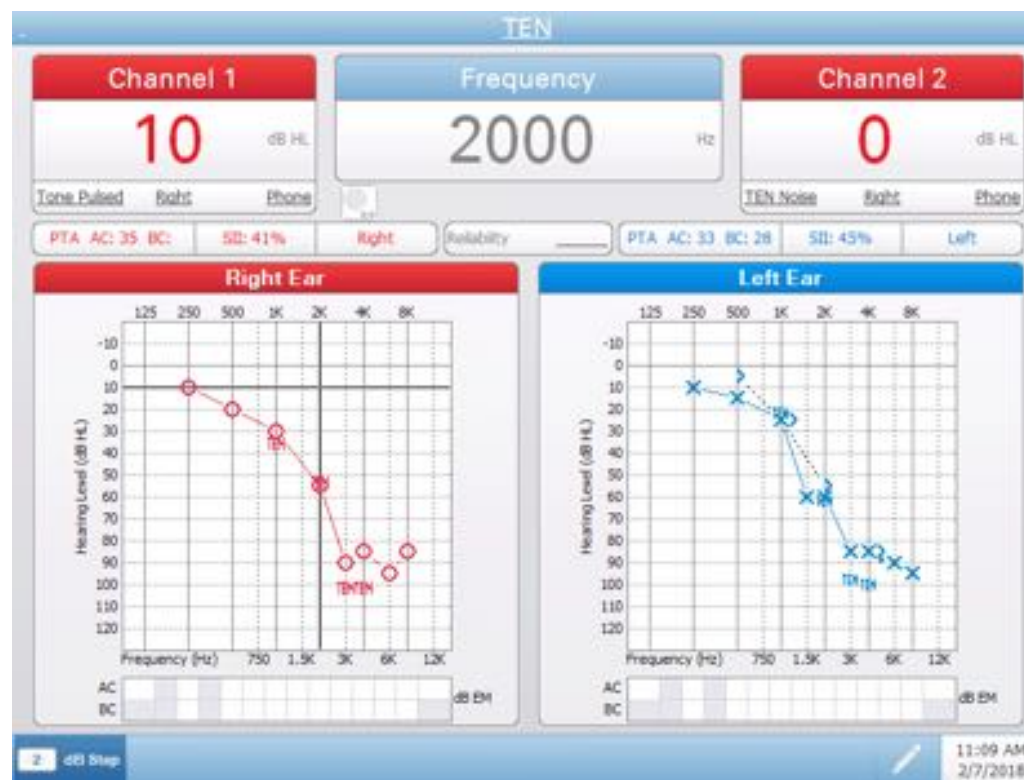
Course presented in partnership with

CONTINUED

TEN test

Clinical test that can detect the presence of one or more cochlear dead regions in an ear.

Useful for counseling about the benefit of hearing aids, hearing aid selection or cochlear implant candidacy



Course presented in partnership with

CONTINUED

- Fast and efficient Speech in Noise Testing
- Fully integrated

Patient ...

Speech Table

Channel 1

40 dB HL

INT A Right Phone

20 -10 -5 -3 -2 -1 0 1 2 3

PTA AC: 35 BC: 32 SII: 37 %

Speech Test Results

Ear	Test Type	INT Ext MIC	Word Lists

Score - SRT

0 %

Armchair More Tests

ABLB

BKB-SIN

QuickSIN

SST

Tone Decay

Cancel

Channel 2

0 dB HL

Speech Noise Left Phone

20 -10 -5 -3 -2 -1 0 1 2 3

PTA AC: BC: SII: Left

Speech Test Results

Word Lists	Aid	%	dB HL	dB EV

Basic Auditory Tests - Adult / Spondee A

Page 1/2

Playground	Daybreak	Northwest	Mushroom	Doormat
Eardrum	Iceberg	Paddock	Sunset	Duck pond
Cowboy	Inkwell	Baseball	Whitewash	Oatmeal
Greyhound	Hot dog	Mousetrap	Airplane	Headlight
Hothouse	Stairway	Woodwork	Drawbridge	Armchair

Test Type

Word Lists

Word Nav

Aided

dB Step

5

3:01 PM

08/21/2019



QuickSIN

- Tests Speech-in-Noise
- Scored using “Incorrect” and “Correct” buttons (configurable with config. App)
- Must use a mouse or Nav Pad to trigger sentences. Interrupt is disabled during testing

Patient...
QuickSIN

Channel 1

70 dB HL
 INT.A Right Phone
 20 -10 -5 -3 -2 -1 0 1 2 3

Group 1 SNR Loss Averages

	R	B	L
Basic			
HFE			
HFE-UP			

Group 2 SNR Loss Averages

	R	B	L
Basic			
HFE			
HFE-UP			

Channel 2

0 dB HL
 INT.B Left Phone
 20 -10 -5 -3 -2 -1 0 1 2 3

PTA AC: 35 BC: 32

SII: 37 %

Right Reliability

PTA AC: BC:

SII:

Left

Test Results Group 1

Ear	Word List	dB HL	SNR 50	SNR Loss

Test Results Group 1

Ear	Word List	dB HL	SNR 50	SNR Loss

Test Results Group 1

Ear	Word List	dB HL	SNR 50	SNR Loss

QuickSIN - Practice List A (Trade 22)

The LAKE SPARKLED in the RED HOT SUN.	Score
TEND the SHEEP WHILE the DOG WANDERS	S/N 25 -
TAKE TWO SHARES as a FAIR PROFIT	S/N 20 -
NORTH WINDS BRING COLDs and FEVERs	S/N 15 -
A SASH of GOLD SILK will TRIM her DRESS	S/N 10 -
FAKE STONES SHINE but COST LITTLE	S/N 5 -
	S/N 0 -
	Sum -

Word Lists
Word File
Added
dB Step
Group
Research

3:29 PM
08/21/2015



Navigation Menu



Group

- Acts as a toggle to indicate 'group' for testing under different conditions (i.e. aided v. unaided / directional mic v. omnidirectional mic)

Research

- Designed for research and special applications
- Output for Channel 1 and Channel 2 can be controlled independently
- Separated tracks should be used in this mode



BKB-SIN

- Designed for Children and Cochlear Implant Users
 - Also ideal for patients with memory issues (sentences are shorter)
- SNR Normative Data based on age range and binaural presentation
- Specific lists for CI patients
- Sentence structure written at first grade level



Course presented in partnership with

CONTINUED

BKB-SIN

- Normed for children and adults, age 5 and up
- Scored using “Incorrect” and “Correct” buttons (configurable with config. App)
- Must use a mouse or Nav Pad to trigger sentences. Interrupt is disabled during testing

Patient...

BKB-SIN

Channel 1

70 dB HL

INT A Right Phone

PTA AC: 35 BC: 32 SII: 37 % Right Reliability

Group 1 S/NR Loss Averages

R B L

Group 2 S/NR Loss Averages

R B L

Channel 2

0 dB HL

INT B Left Phone

PTA AC: BC: SII: Left

Group 1 S/NR Loss Averages

R B L

Group 2 S/NR Loss Averages

R B L

Test Results Group 1

Ear	Word List	dB HL	S/NR 50	S/NR Loss

Test Results Group 1

Ear	Word List	dB HL	S/NR 50	S/NR Loss

Test Results Group 1

Ear	Word List	dB HL	S/NR 50	S/NR Loss

Score

S/N	Score	Word List
21	-	A1 THEY are LOOKING AT the CLOCK
19	-	A2 The CAR ENGINE is RUNNING
15	-	A3 CHILDREN LIKE STRAWBERRIES
12	-	A4 THEY are BUYING some BREAD
9	-	A5 The GREEN TOMATOES are SMALL

BKB-SIN | List Pair 1

S/N	Score	Word List
6	-	A5 HE PLAYED with His TRAIN
3	-	A7 The BAG FELL to the GROUND
0	-	A8 The BOY DID a HANDSTAND
-3	-	A9 The WATER BOILED QUICKLY
-6	-	A10 The MAN is PAINTING a SIGN

Page 1/2

S/N	Score	Word List
6	-	A5 HE PLAYED with His TRAIN
3	-	A7 The BAG FELL to the GROUND
0	-	A8 The BOY DID a HANDSTAND
-3	-	A9 The WATER BOILED QUICKLY
-6	-	A10 The MAN is PAINTING a SIGN
Sum	-	

Word Lists

Word File

Age

Aided

dB Step

Group

Research

3:28 PM 08/21/2016



Navigation Menu



Group

- Acts as a toggle to indicate 'group' for testing under different conditions (i.e. aided v. unaided / directional mic v. omnidirectional mic)

Age

- Must be filled in to score test

Research

- Designed for research and special applications
- Output for Channel 1 and Channel 2 can be controlled independently
- Split tracks should be used in this mode



Results and Interpretation

- The SNR Loss will be calculated automatically
- Results can be transferred to GSI Suite
- Included on direct print



Course presented in partnership with

CONTINUED

Objective Recommendations

SNR LOSS	DEGREE OF SNR LOSS	EXPECTED IMPROVEMENT WITH DIRECTIONAL MIC
0-3 dB	Normal / near normal	May hear better than normals hear in noise
3-7 dB	Mild SNR loss	May hear almost as well as normals hear in noise
7-15 dB	Moderate SNR loss	Directional microphones help; consider array mic
>15 dB	Severe SNR loss	Maximum SNR improvement is needed; consider FM system



Course presented in partnership with

continued

Pediatric testing features

- VRA Trigger
- Assistant monitor
- Remote keyboard
- Mic stimulus in tone screen
- Pediatric Noise
- EXT stimulus in tone screen



Course presented in partnership with

CONTINUED

VRA

- Ability to trigger most commercial systems
- **New** centering button added to device



Course presented in partnership with
continued

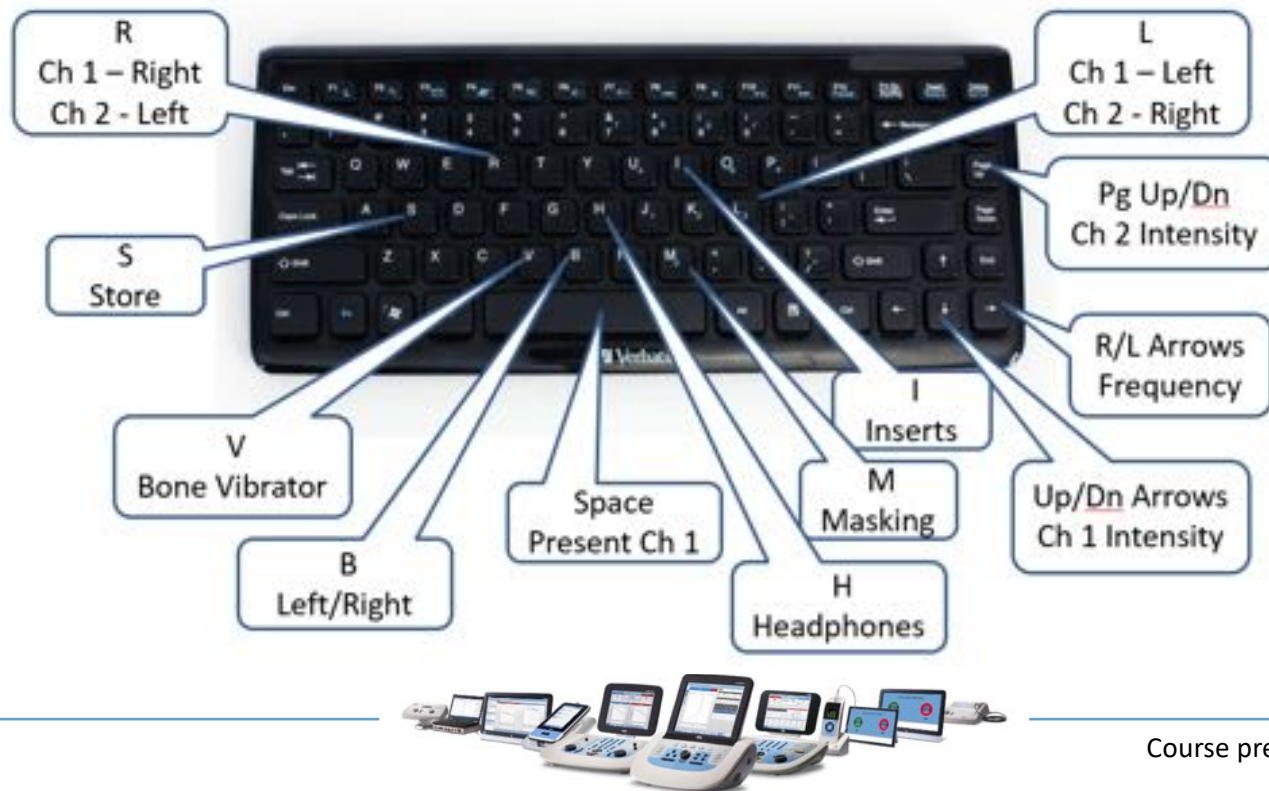
Assistant Monitor

- Allows direct communication between Operator and Assistant
- Testing stimulus is delivered to Assistant mirroring the Operator Mic / Monitor headset



Remote Keyboard: Play Audiometry

8/27/2019



Mic / EXT stimulus in Tone Test Type

- When obtaining results on a difficult to test patient, it is desired to have tone in one channel and mic / EXT in the other.
- Things to remember: When on the tone test type and mic is the stimulus in the non-test channel, you will not get a VU meter



Course presented in partnership with

CONTINUED

Configuration Application v2.0

Customizing Default Settings and Favorites



Course presented in partnership with

CONTINUED

Configuration Application v 2.0

- Every AudioStar Pro comes with a computer program called the Configuration Application
- The “Config App” is how defaults are defined and assigned
- It is an “extra.” It is not necessary for testing hearing with the AudioStar Pro
- Makes startup settings customized – adds to efficient testing



Config Ap Menu



Download: Sends the “new” configuration to the device (restart required after download for settings to take effect)

Upload: Pulls the current configuration from the AudioStar Pro when connected to a PC

New: Starts a new configuration

Default: Resets config. app to default settings

Revert: Reverts changes made to default settings

Load: Loads a previously saved configuration

Save: Saves a current configuration. App will prompt for file location to save

Configure: Change Language (11 languages supported)

About: Config App info and version number



Instrument / Set Up

Date and time

Instrument Regional Settings / Symbol Set

AUX Intercom Button

Patient Response Button

4-Speaker Settings

The screenshot displays the 'GSI Audiotalk Pro Config App 2.0.0' interface. On the left is a navigation menu with categories: Instrument, Setup, Facility, Printing, Security, Audiometry, General, Tone, Speech, Word Lists, and Norm Values. The 'Setup' category is selected, showing sub-sections: Date and Time, Instrument Regional Settings, AUX Intercom Button, Patient Response Button, and 4-Speaker Settings.

Date and Time

Date Format: mmmdd/yyyy | ddmm/yyyy | yyyy/mmdd

Current Date: 07/24/2019

Time Format: 12 Hour | 24 Hour

Current Time: 08:51:22 AM

[Apply Now]

Instrument Regional Settings

Upload configuration from instrument to load regional settings.

Display Language: English (United States)

Symbol Set: USA

AUX Intercom Button

AUX Intercom Button Acts As: [Toggle] [Push Button]

Patient Response Button

Number of buttons connected to the audiometer: [One] [Two]

4-Speaker Settings

Default Left/Right Routing		Speaker Description
Ch1 (Text)	Ch2	1 Right
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2 Left
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3 HF3
<input type="checkbox"/>	<input type="checkbox"/>	4 HF4

The total number of routings across both Channel 1 and Channel 2 can not exceed 4 and the number of routings per channel must be between 1 and 3.

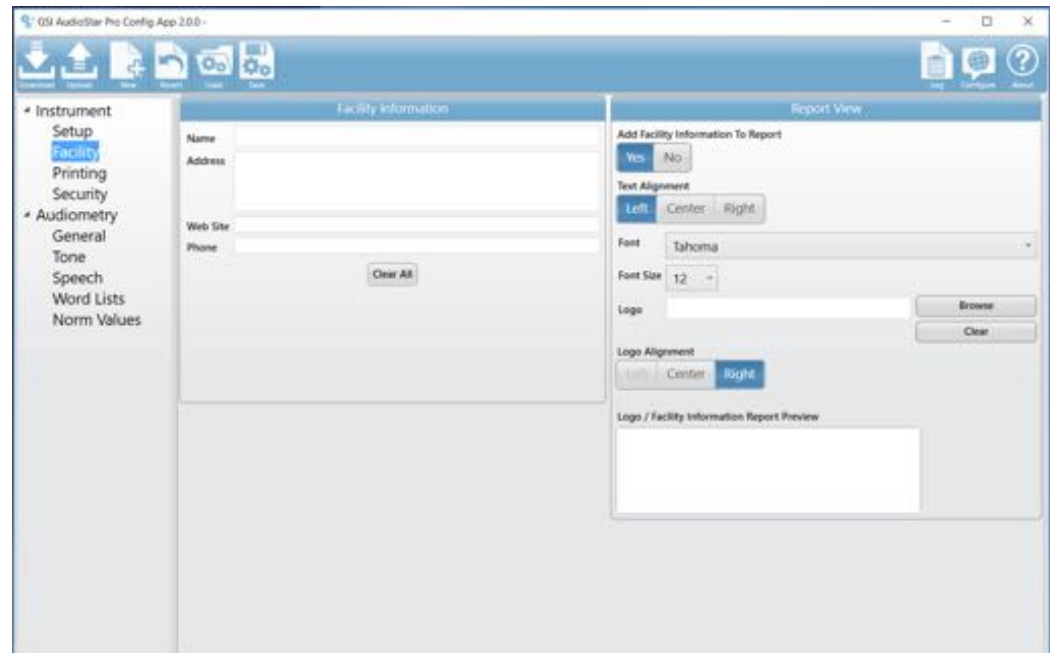


Course presented in partnership with

CONTINUED

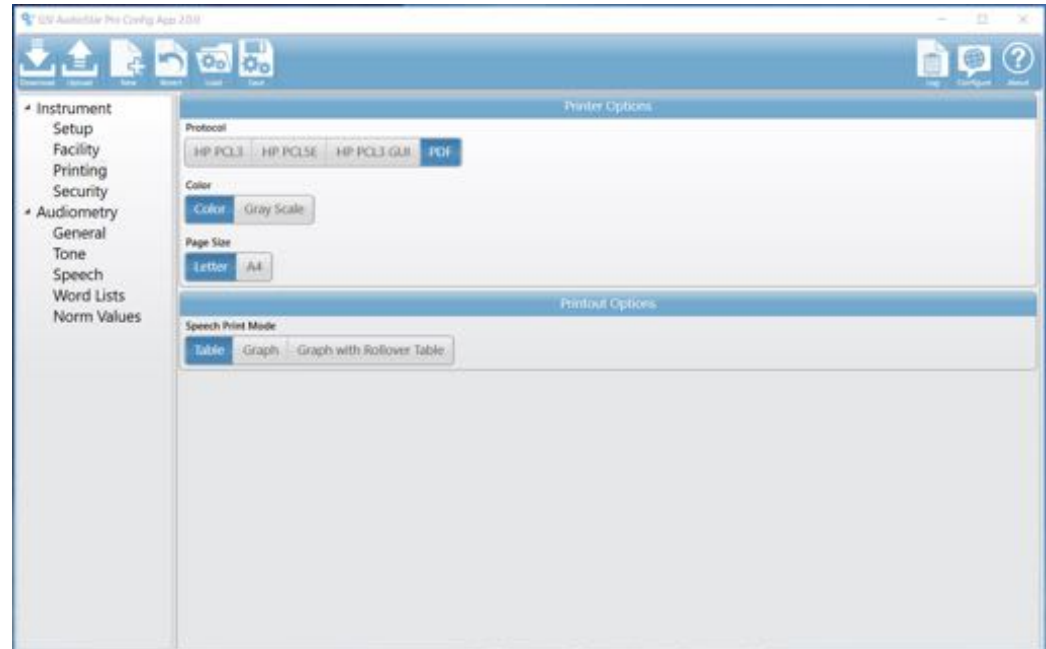
Instrument / Facility

- Facility info (for direct printing)
- Report View (font and logo)



Instrument / Printing

- Printer protocol (printer language)
- Speech Print Mode



GSI vetted printers

Brand	Model	Protocol
HP	Officejet 200 mobile	HP PCL3 GUI
HP	Officejet Pro 6230	HP PCL3
HP	LaserJet Pro M402n	HP PCL5e



Report template

AudioStar Pro Direct Print AudioStar Pro, Prigge
Patient ID: 11-11-11 Calibrated: 11/2/2012
Age: Test date: 11/7/2012
Birthdate: Hearing Center
1234 Main Street
Anytown, MN 55485
www.hearingcenter.com
800-224-3456

gsi
Grason-Stadler

Right Ear

Left Ear

Speech Test Results

Ear	Test	Result	Pass %	Pass 2019
R	Word	100%	100%	100%
	Number	100%	100%	100%
	Letter	100%	100%	100%
L	Word	100%	100%	100%
	Number	100%	100%	100%
	Letter	100%	100%	100%

Comments:

Patient reported difficulty hearing especially in crowded situations. Patient believes his right ear is poorer than his left ear.

Pure tone air and bone conduction testing indicates a moderate to severe mixed hearing loss in the right ear and a moderate high frequency sensorineural hearing loss in the left ear. Recommended ENT consult to address conductive component in right ear.

Following ENT clearance, recommend hearing aids bilaterally.

Examiner: _____ Signed by: _____ Date: _____

page 1 of 2

AudioStar Pro Direct Print AudioStar Pro, Prigge
Patient ID: 11-11-11 Calibrated: 11/2/2012
Age: Test date: 11/7/2012
Birthdate: Hearing Center
1234 Main Street
Anytown, MN 55485
www.hearingcenter.com
800-224-3456

gsi
Grason-Stadler

Right & Left Ears

Masking

Speech Test Results

Ear	Test	Result	Pass %	Pass 2019
R	Word	100%	100%	100%
	Number	100%	100%	100%
	Letter	100%	100%	100%
L	Word	100%	100%	100%
	Number	100%	100%	100%
	Letter	100%	100%	100%

Comments:

Patient reported difficulty hearing especially in crowded situations. Patient believes his right ear is poorer than his left ear.

Pure tone air and bone conduction testing indicates a moderate to severe mixed hearing loss in the right ear and a moderate high frequency sensorineural hearing loss in the left ear. Recommended ENT consult to address conductive component in right ear.

Following ENT clearance, recommend hearing aids bilaterally.

Examiner: _____ Signed by: _____ Date: _____

page 1 of 1



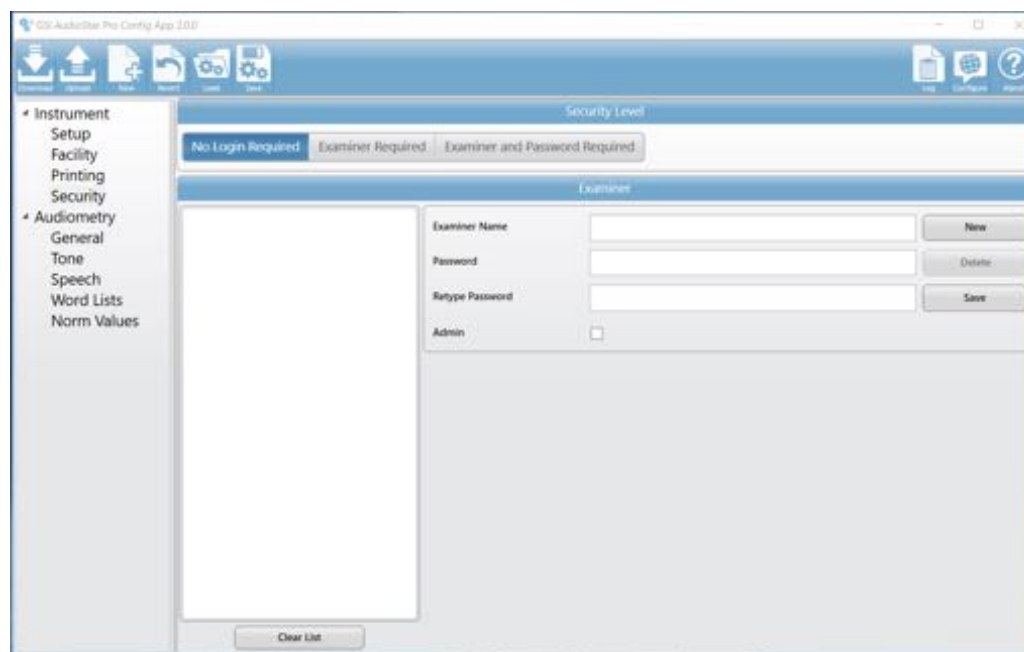
Course presented in partnership with

CONTINUED

Instrument / Security

Login

Add Examiners

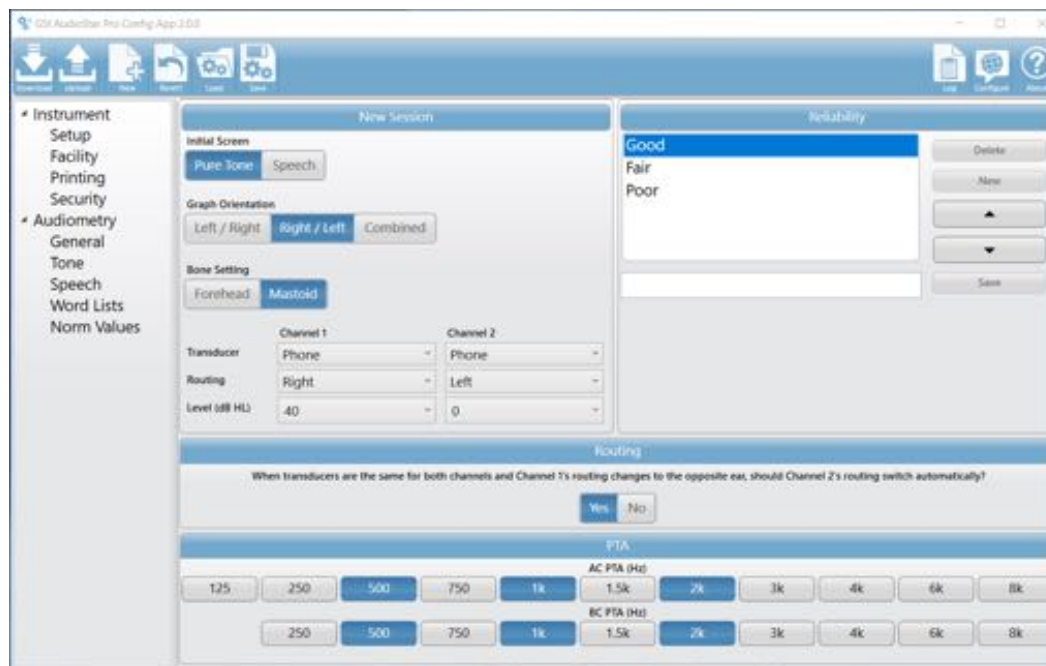


Course presented in partnership with

CONTINUED

Audiometry / General

- Settings for a new session
- Reliability
- Default routing
- PTA (AC and BC)

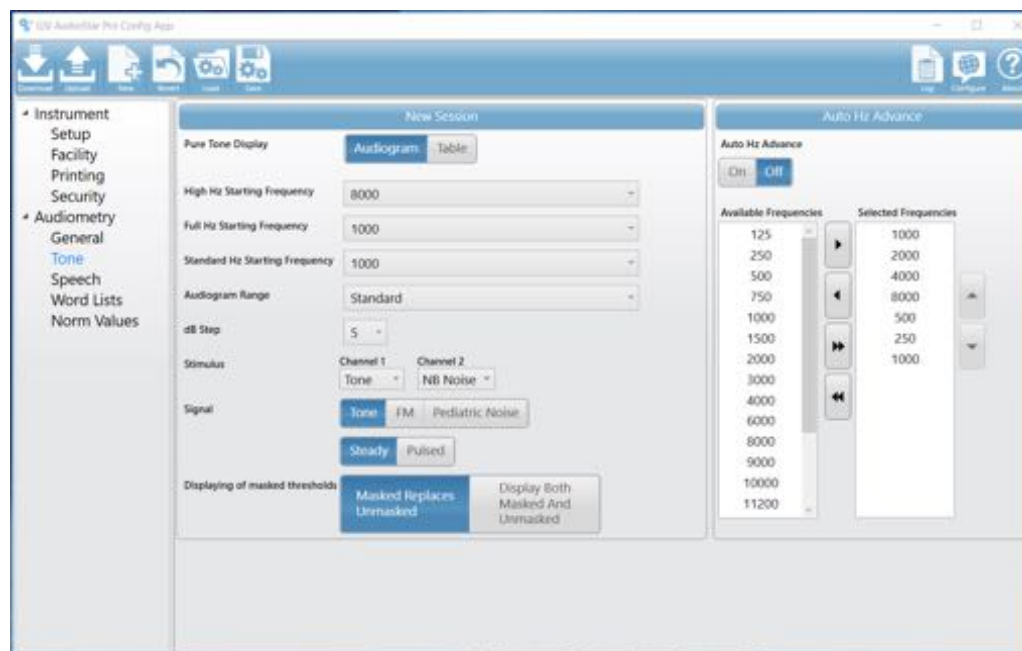


Course presented in partnership with

CONTINUED

Audiometry / Tone

- Preferences for tone screen
- Auto Hz option

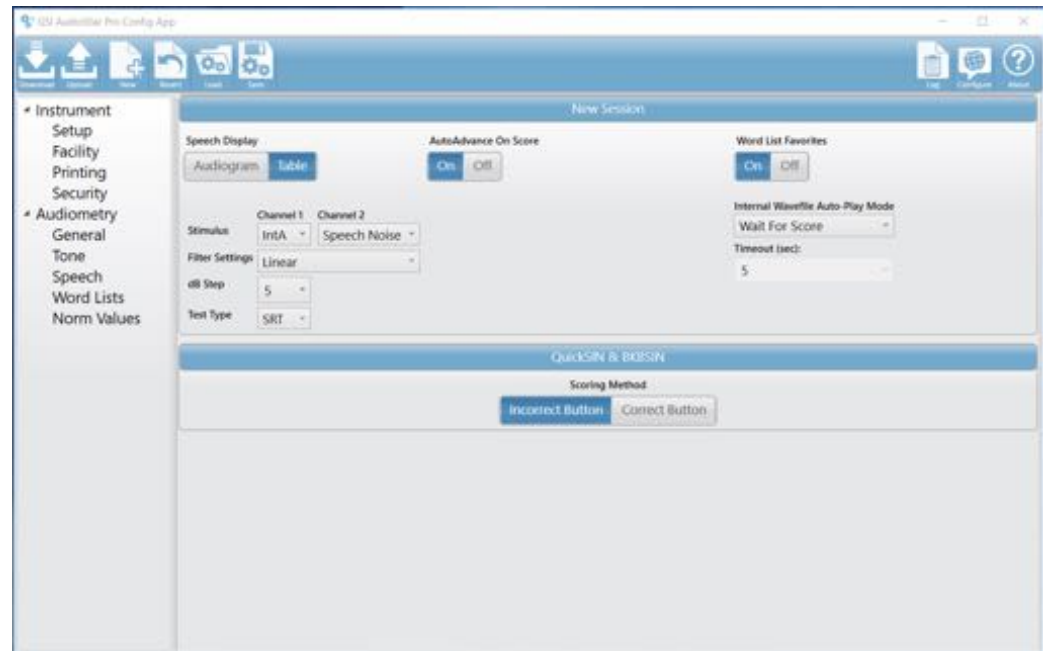


Course presented in partnership with

CONTINUED

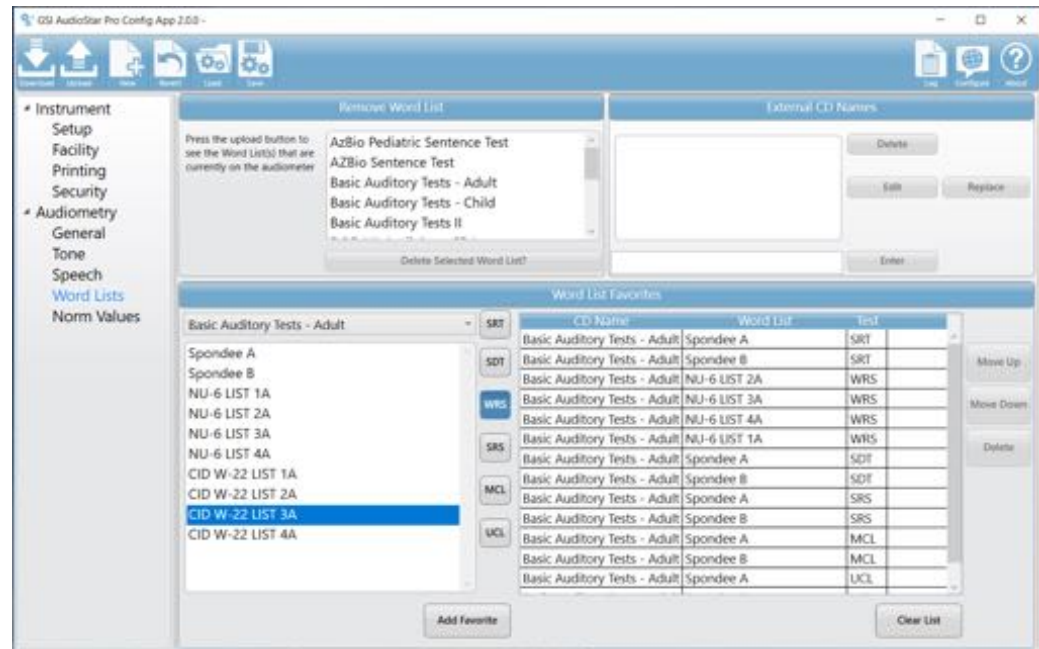
Audiometry / Speech

- Speech Preferences
- Quick SIN and BKBSIN scoring preferences



Audiometry / Wordlists

- Remove Word Lists
- Word List Favorites
 - Assign test type to each list
 - Arrange in preferential order



Course presented in partnership with

CONTINUED

Audiometry / Norm Values

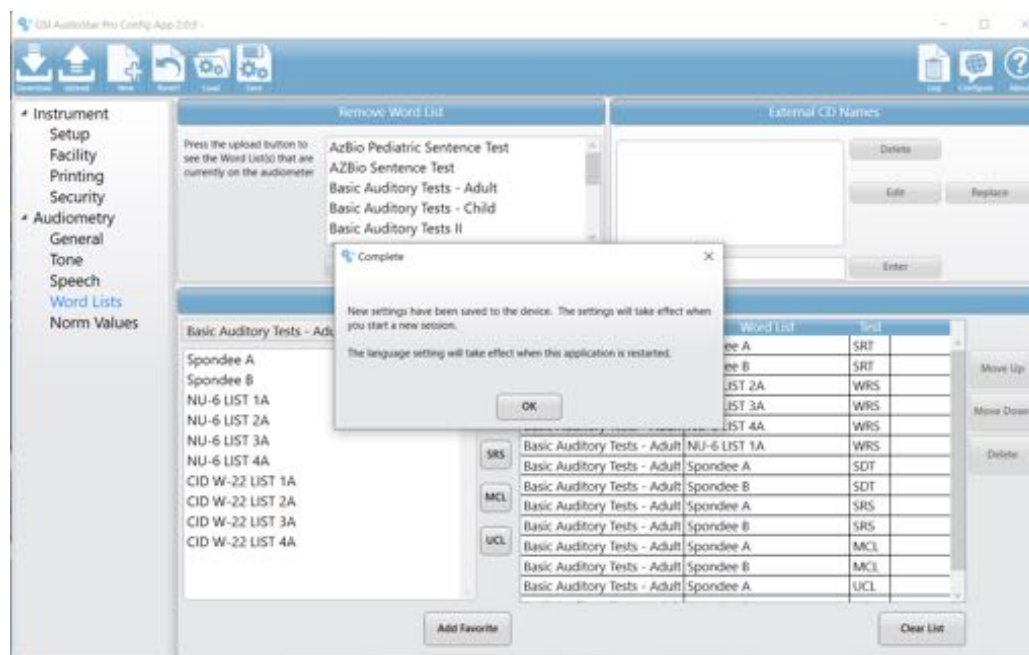
- Speech norm curves
- More commonly used in other countries

[illegible]

Download

Restart or clear session to have settings take effect

Use “save” to save a file that can be reloaded through the Config App or with a USB drive



Course presented in partnership with

CONTINUED

Data Transfer

GSI Suite



Course presented in partnership with

CONTINUED

GSI Suite Summary

- GSI Suite is included with compatible GSI equipment
 - AudioStar Pro v1 and v2, Pello, Tymptstar Pro, GSI 39, Corti
 - Legacy Products: GSI 61, GSI TymptStar v1 and v2
- GSI Suite offers flexibility in data management for the following:
 - Reporting (pre-defined comments)
 - Hearing aid fitting/counselling (Noah compatible)
 - EMR/HER (PDF, JPEG, TIFF, Public Data)
- GSI Suite may be customized to fit the needs of your facility
 - Multiple referral sources
 - Multiple testing protocols
 - Multiple examiner preferences



Conclusion

- GSI is committed to efficient and accurate clinical evaluations
- While there is operational consistency with legacy products, it's important to be aware of the differences
- Updated technology has allowed a number of features that were not available before
- Knowing the ins and outs of your equipment will ensure confidence when testing all patients!



Course presented in partnership with

CONTINUED

Questions/Discussion



Thank you!

