Operation Manual

AC440 Plug-in for AuditBase System

83015301 - 05/09

AC440 Plug-in for AuditBase System

Contents

Introduction	1
Installation	2
Starting AC440 Plug-in	4
Tone Audiometry	5
The Tone Screen	5
Performing Tone Audiometry	8
Speech Audiometry	9
The Speech Screen	9
Performing Speech Audiometry1	13
The Weber Test 1	L4
The Weber Screen1	14
Performing the Weber Test1	17
Auto Save Settings1	18
PC Shortcuts1	17

Introduction

AuditBase System (AB) database has a diverse user group in the hospital, covering tasks such as patient registration, invoicing, service and different hearing assessments based on measurements from audiometers and tympanometers.

This user manual describes the use of AB together with the AC440 Plug-in made for the Interacoustics AC440 audiometry module.

The AuditBase AC440 Plug-in gives a condensed access to the AC440 audiometer module and accommodates for the air-bone-speech (SRT, WR and WR in noise) process with or without masking, depending on the character of the hearing loss.

The application appears as a control panel on top of the AB application where the user controls the instrument and the result of the measurement is simultaneously shown on the AB Audiogram. This makes it possible for clinicians to record audiograms very fast and efficiently and get an overview of the hearing impairment.

For in depth information regarding audiometry using the Affinity^{2.0}/Equinox^{2.0} please refer to the Affinity^{2.0}/Equinox^{2.0} User Manual. Read more at <u>www.interacoustics.com</u>

Installation

To install the AC440 Plug-in, please follow the following four steps:

- 1) Insert the installation CD and run the installation file (if it does not start automatically)
- 2) Start AuditBase Administration and add a new audiometer application as shown on screenshot below:

jile Iools Help		
General settings General settings Appointment definitions Freatment summary definitions Earmould definitions Earmould definitions Event definitions Diagnosis definitions Journal definitions Stock definitions Invoice definitions Repair definitions Referring agent settings Referral settings Document and attachment setting Other definitions Symbols User administration PAS integration Data recovery Printing/Output extension Location definitions Versions and updates Audiogram settings General settings General settings General settings Mean value configurations User settings User settings	New Delete Aurical	

3) Press the "Test button"

2

4) Choose the new audiometer application path as shown on the screenshot below:

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Starting AC440 Plug-in

Open and navigate AuditBase as described in the AuditBase User Manual.

Start AC440 Plug-in when selected as preferred audiometer

- a. Select Measurement in the top tool bar
- b. Choose AB Audiogram
- c. Click the Measure button and the AC440 Plug-in will open

Tone Audiometry

The AC440 Plug-in opens in the Tone screen and enables the clinician is able to perform air, bone and free field audiometry with or without masking.

The Tone Screen



Talk Forward: This button will activate *Talk Forward* that enables the clinician to talk to the client through the talk forward microphone. To adjust the sound level of the signal use the slider bars that appear when pressing the talk forward button:-



+ 20dB



Extended Range +20 dB: This button extends the testing range and can be activated when the threshold search reaches 50 dB below the maximum level of the headset.

Monitoring (M) of Channel 1 or Channel 2: The check boxes (*Ch1* and *Ch2*) enable the clinician to monitor Channel 1, Channel 2 or both Channels together through an external monitor loudspeaker. The monitor intensity is adjusted with the slider.

Talk Back (TB): If a microphone is connected to the Talk Back input the clinician has the opportunity to listen to the client through an external loudspeaker – when such has been connected to the monitor input

Channel 1

Right	*
Tone	~

Output Channel 1: This dropdown provides the option to select output for Ch1 - pure tone testing for both ears (*Right* and *Left*), bone conduction testing for both ears (*Bone R* and *Bone L*), free field testing (*FF1* and *FF2*), and insert phone testing (*Insert Right* and *Insert Left*).

Input Channel 1: The dropdown provides the option to select Tone

1 dB and 5 dB steps: This button allows for toggling between using 1 dB and 5 dB intensity steps during the tone audiometry.

Man Rev

Manual or Reverse presentation in Channel 1: Here the clinician has the option to choose *Man* (manual) and thereby present the signal to the client only when the *Stimuli Channel 1* is activated. Choosing *Rev* (reverse) will cause the signal to be presented continuously, only disappearing when the *Stimuli Channel 1* is activated.

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Pulsation: Here the clinician has the option to select between single and continuous pulse presentation



Output Channel 2: This dropdown provides the option to select output for Ch2 - pure tone testing for both ears (*Right* and *Left*), masking using an insert phone (Insert Mask), free field testing (*FF1* and *FF2*), and insert phone testing (*Insert Right* and *Insert Left*). The Channel 2 can also be set to be *Off* if masking is unnecessary.

Input Channel 2: This dropdown provides the option to select *Tone, NB* (Narrow Band Noise) and *WN* (White Noise) as input for Channel 2.

Synchrony: This button will lock / synchronize the Channel 2 attenuator to the Channel 1 attenuator.

Man Rev

Manual or Reverse presentation in Channel 2: Here the clinician has the option to choose *Man* and thereby present the signal to the client only when the *Stimuli Channel 2* is activated. Choosing *Rev* will cause the signal to be presented continuously, only disappearing when the *Stimuli Channel 2* is activated

Sim Alt

Simultaneous/Alternate: Here the clinician has the option to select presentation in both channels *Sim* by locking Channel 1 and Channel 2 together or to have the presentation in the two channels alternating to each other *Alt*.

dB HL Decrease Channel 1: With the dB HL Decrease button the intensity in Channel 1 can be decreased with 1 or 5 dB steps with a mouse click. This can also be obtained using the arrow up on the computer keyboard



Stimuli Channel 1: *Stimuli* is presented by pressing space bar or left Ctrl key on the computer keyboard. A left mouse click in the Stimuli area will store the threshold at the current position (clicking at another intensity at the same frequency will change the threshold to the new position). A right mouse click in the Stimuli area will store a no response threshold.



dB HL Increase Channel 1: With the dB HL Increase button the intensity in Channel 1 can be increased with 1 or 5 dB steps with a mouse click. This can also be obtained sing the arrow down on the computer keyboard.

30 dB	Tone 1000 Hz	15 dB
HL	Frequency	HL

Frequency and Intensity display area: On the left side of the black area the dB value for Channel 1 (30 dB) is shown and on the right side for Channel 2. (15 dB). In the middle of the black area the current frequency level is shown.

dB HL Decrease Channel 2: With the dB HL Decrease button the intensity and Channel 2 can be decreased with 1 or 5 dB steps with a mouse click. This can however also be obtained using the arrow up on the computer keyboard.

Stimuli Channel 2: The noise will be muted when the mouse is over the Stimuli area or when right Ctrl key is pressed.

dB HL Increase Channel 2: With the dB HL Increase button the intensity in Channel 2 can be increased with 1 or 5 dB steps with a mouse click. This can however also be obtained using the arrow up on the computer keyboard.



Frequency increase/decrease: Clicking on the Frequency buttons the frequency will be increased or decreased depending on the chosen direction. This can also be obtained using the arrow to the left or right on the computer keyboard.

💿 HL	🔾 MCL	🔾 UCL	

HL, MCL & UCL: Here HL (Hearing Level) can be selected to do a normal audiometry, MCL can be selected in order to test the Most Comfortable Levels, or UCL can be chosen to test the Uncomfortable Levels

Performing Tone Audiometry

- Patient 010101-0104 TEST TESTESEN - I I Bruger SA WEBER -10 -10 Channel 1 Channel 2 dB dF л <u>м</u> Man Rev Rev Sin senlign Grafisk tale Andre Vestibulær Info n Herwisning Tale Tymp Sam
- 1) Open AC440 Plug-in through AuditBase (described above).

2) Select the input and output for Channel 1 using the corresponding dropdowns.

Using the **Channel 2** input and output dropdowns the clinician can decide whether or not masking is to be employed.

- 3) Use the arrow buttons on in the AC440 Plug-in, PC keyboard or the dedicated keyboard to set the frequency and intensity.
- 4) Present the stimulus by touching the Stimuli area with the mouse, pressing S on the PC keyboard, or the touch switch on the dedicated keyboard. During stimulus presentation the Stimuli area will light up, visually letting the clinician no when sound is coming out of the headphones.
- 5) If having to do with a more severe hearing loss the clinician may want to press the **Extended Range +20 dB** button

Speech Audiometry

Click on the Speech Tab to enter the speech screen:



From the speech screen the clinician can present the preferred speech material and score the test.

The Speech Screen

AC44	0 Plug-in l	or AuditBase										×
	+ zouip	1 dB 5 dB	Channel	1	20 15	Speech Sco	re Word Coun	iter		Channe	el 2	a -
		🗢 Right	~		30 dB	0-%	0		dB	Off	*	Ð
ТВ			file 🔽		HL	Scorin	ng / Store		HL	Mic2	*	-> <mark>भ</mark>
	•	Man R	ev I II		Stimuli	r √	X •		Stimuli 💌	Man Rev O O	Sim Alt	ech Web
		-20 dB	0 +3 d£	3	۲	SRT OUG	L 🔾 WR1 (O WR2		+3 dB 0		-20 dB
Θ.		vårt	park	mur	frukt	ditt	två	skuld	näbb	hiss	sill	
n.	C det	rad	spalt	skratt –	just	glatt	narr	salt	Vass	nos	vin	- 5
		bra	sol	träff	trång	kök	láng	fort	pang	eid	köp	
	Ch2	Svensk Tala	udiome 🗙 Fl	3 Liata 1	✓ Wo	rd	 Single 	syllabics	× 🛌		6	ics®



Talk Forward: This button will activate *Talk Forward* that enables the clinician to talk to the client through the talk forward microphone. To adjust the sound level of the signal use the slider bars that appear when pressing the talk forward button







Extended Range +20 dB: This button extends the testing range and can be activated when the threshold search reaches 50 dB below the maximum level of the headset

Monitoring (M) of Channel 1 or Channel 2: The check boxes (*Ch1* and *Ch2*) enable the clinician to monitor Channel 1, Channel 2 or both Channels together through an external monitor loudspeaker. The monitor intensity is adjusted with the slider.

Talk Back (TB): If a microphone is connected to the Talk Back input the clinician has the opportunity to listen to the client through an external loudspeaker – when such has been connected to the monitor input.

Output Channel 1: This dropdown provides the option to select speech testing output for both ears (*Right* and *Left*), bone conduction testing for

Channel 1

Left	*
Wave file	*

1 dB

лл

Man Rev

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if using insert phones (*Insert Right* and *Insert Left*) as output for Channel 1. **Input Channel 1:** The dropdown provides the option to select microphone, CD player or Wave files (*Mic1, Mic2, CD1, CD2,* or *Wave file*) as input for Channel 1.

both ears (Bone Right and Bone Left), free field testing (FF1 and FF2), and

1 dB and 5 dB steps: This button allows for toggling between using 1 dB and 5 dB intensity steps during the speech audiometry.

Pulsation: Here the clinician has the option to select between *Single Pulse* and *Multi Pulse* presentation.

Manual or Reverse presentation in Channel 1: Here the clinician has the option to choose *Man* and thereby present the signal to the client only when the stimuli/speech signal of Channel 1 is activated. Choosing *Rev* will cause the signal to be presented continuously, only disappearing when the stimuli/speech signal of Channel 1 is activated

Channel 2

Off	۷
Mic2	*

Output Channel 2: This dropdown provides the option to select speech testing output for both ears (*Right* and *Left*), *Insert mask* for masking via an insert phone, free field testing (*FF1* and *FF2*), and if using insert phones (*Insert Right* and *Insert Left*) as output for Channel 2. This channel can also be set to *Off* if masking or binaural stimulation is not wanted.

Input Channel 2: The dropdown provides the option to select microphone *(Mic1 and Mic2), Insert mask* for masking via an insert phone, CD material *(CD1 and CD2)*, White Noise *(WN)*, Speech Noise *(SN)*, and *Wave files* as input for Channel 2.

Man Rev \odot \bigcirc

Manual or Reverse presentation in Channel 2: Here the clinician has the option to choose *Man* and thereby present the signal to the client only when the stimuli/speech signal of Channel 2 is activated. Choosing *Rev* will cause the signal to be presented continuously, only disappearing when the *Stimuli*

Channel 2 is activated.

Sim Alt Simultaneous/Alternate: Here the clinician has the option to select presentation in both channels *Sim* by locking Channel 1 and Channel 2 together or to have the presentation in the two channels alternating to each other *Alt*.

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Stimuli

Stimuli Channel 1: *Stimuli* is presented by pressing space bar or left Ctrl key on the computer keyboard. A left mouse click in the Stimuli area will store the threshold at the current position (clicking at another intensity at the same frequency will change the threshold to the new position). A right

dB HL Decrease Channel 1: With the dB HL Decrease button the intensity in Channel 1 can be decreased with 1 or 5 dB steps with a mouse click. This can also be obtained using the arrow up on the computer keyboard

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dB HL Increase Channel 1: With the dB HL Increase button the intensity in Channel 1 can be increased with 1 or 5 dB steps with a mouse click. This can also be obtained sing the arrow down on the computer keyboard.

mouse click in the Stimuli area will store a no response threshold.

30 dB	Speech Score	Word Counter	15 dB
HL	% Scoring	/ Store	HL

Frequency and Intensity display area: On the left side of the black area the dB value for Channel 1 (30dB) is shown and on the right side for Channel 2.(15dB). In the middle of the black area the current Speech Score in % and the Word Counter monitors the number of words presented during the test.

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Correct: A mouse click on this button will store the word as correctly repeated.

Incorrect: A mouse click on this button will store the word as incorrectly repeated.

Store: A mouse click on this button will store the speech threshold in the speech graph.

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Stimuli

Channel 2 can be decreased with 1 or 5 dB steps with a mouse click. This can however also be obtained using the arrow up on the computer keyboard

dB HL Decrease Channel 2: With the dB HL Decrease button the intensity and

Stimuli Channel 2: When the mouse cursor is above the *Stimuli* area the selected stimulus will be presented. If Channel 2 is used for continuous masking noise.



dB HL Increase Channel 2: With the dB HL Increase button the intensity in Channel 2 can be increased with 1 or 5 dB steps with a mouse click. This can however also be obtained using the arrow down on the computer keyboard



Frequency increase/decrease: Clicking on the Frequency buttons the frequency will be increased or decreased depending on the chosen direction. This can also be obtained using the arrow to the left or right on the computer keyboard.

salt	spor	halm	gås		
brød	kat	tung	stok		
græs	øl	jord	ged		
Spor 1	Word	Single syl	labics 💌		
		•			

SRT OUCL OWR1 WR2

SRT, UCL, WR1 & WR2: Here the clinician can choose which test to perform. Select between SRT (Speech Recognition Threshold) UCL (Uncomfortable Level), WR1, and WR2 (Word Recognition).

Speech Presentation: In this area the selected material is shown. Upon presentation the word is yellow. Depending on the correct/incorrect score they become green or red respectively.

Type of Speech Material: Using these dropdowns the clinician can select the preferred type of material for the speech test.

Play, Pause, Stop: Using these buttons the clinician can control the speech test.

Performing Speech Audiometry

1) Open AC440 Plug-in through AuditBase and go to the Speech screen by clicking the **Speech tab**.



- 2) Select the input and output for **Channel 1** using the corresponding dropdowns.
- 3) Using the **Channel 2** input and output dropdowns the clinician can decide whether or not masking is to be employed.
- 4) Select the desired **Speech material** using the dropdowns Spor 1 V Word Single syllabics V
- 5) Set the input level using the arrow buttons in the AC440 Plug-in, PC keyboard or dedicated keyboard.
- 6) Press Play
- 7) Score the test using the scoring buttons to score and store the speech test.
- 8) If having to do with a more severe hearing loss the clinician may want to press the Extended Range +20 dB button

The Weber Test

Click on the Weber Tab to enter the Weber screen.



From here Weber testing can be performed. For details on the Weber test please refer to the Affinity/Equinox 2.0 Manual

The Weber Screen

AC440 Plug-in	for AuditBase											×
🔗 🍰	C C	nannel 1	30	dP				D	Channe	12	2	Tor
TP M	Bone	~	50	uD	1000 HZ			D	Off	*	Ð	2
	Tone	×	HL		Frequency		HL		Tone	~	€	Spee
•	Man Rev	0 0 0	Stimul	•	• •	•	Stimuli	•	Man Rev	Sim Alt	₿µ	th Weber
Ch1 Ch2										@ Interacou:	tics®	



Enable Talk Forward: This button will activate *Talk Forward* that enables the clinician to talk to the client through the talk forward microphone To adjust the sound level of the signal use the slider bars that appear when pressing the talk forward button





activated when the threshold search reaches 50 dB below the maximum level of the headset. Monitoring (M) of Channel 1 or Channel 2: The check boxes (*Ch1* and *Ch2*)

enable the clinician to monitor Channel 1, Channel 2 or both Channels together through an external monitor loudspeaker if a loudspeaker has been connected to the monitor input. The monitor intensity is adjusted with the slider.

Extended Range +20 dB: This button extends the testing range and can be

Talk Back (TB): If equipped with a microphone connected to the Talk Back input the clinician has the opportunity listen to the client through an external loudspeaker – when such has been connected to the monitor input.

Channel 1

Bone	~
Tone	~

Output Channel 1 and 2: These dropdowns are grayed out as the Weber settings are fixed.

Channel 2	
Off	~
Tone	~

Input Channel 1 and 2: These dropdowns are grayed out as the Weber settings are fixed.



1 dB and 5 dB steps: This button allows for toggling between using 1 dB and 5 dB intensity steps during the Weber test.



Synchrony: This button will lock / synchronize the Channel 1 attenuator to the Channel 2 attenuator.



Manual or Reverse presentation in Channel 1 and 2: Here the clinician has the option to choose Man (manual) and thereby present the signal to the client only when the *Stimuli Channel 1* is activated. Choosing *Rev* (reverse) will

cause the signal to be presented continuously, only disappearing when the *Stimuli Channel* 1 is activated. For Channel 2 *Man* and *Rev* are grayed out as the Weber settings are fixed.

Pulsation: Here the clinician has the option to select between single and continuous pulse presentation

Simultaneous/Alternate: This function is grayed out as the Weber settings are fixed.

dB HL Decrease Channel 1: With the dB HL Decrease button the intensity in Channel 1 can be decreased with 1 or 5 dB steps with a mouse click. This can also be obtained using the arrow up on the computer keyboard

Stimuli Channel 1: *Stimuli* is presented by pressing space bar or left Ctrl key on the computer keyboard. A left mouse click in the Stimuli area will store the threshold at the current position (clicking at another intensity at the same frequency will change the threshold to the new position). A right mouse click in the Stimuli area will store a no response threshold.

dB HL Increase Channel 1: With the dB HL Increase button the intensity in Channel 1 can be increased with 1 or 5 dB steps with a mouse click. This can also be obtained using the arrow down on the computer keyboard.

30 dB	1000 Hz	15 dB
HL	Frequency	HL

Frequency and Intensity display area: On the left side of the black area the dB value for Channel 1 (30dB) is shown and on the right side for Channel 2.(15dB). In the middle of the black area the current frequency level is shown.



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Sim Alt

dB HL Decrease Channel 2: With the dB HL Decrease button the intensity and Channel 2 can be decreased with 1 or 5 dB steps with a mouse click. This can however also be obtained using the arrow up on the computer keyboard

Stimuli

Stimuli Channel 2: When the mouse cursor is above the *Stimuli* area the tone/noise will be presented. If Channel 2 is used for continuous masking noise.

dB HL Increase Channel 2: With the dB HL Increase button the intensity in Channel 2 can be increased with 1 or 5 dB steps with a mouse click. This can however also be obtained using the arrow down on the computer keyboard.



Frequency increase/decrease: Clicking on the Frequency buttons the frequency will be increased or decreased depending on the chosen direction. This can also be obtained using the arrow to the left or right on the computer keyboard.

Performing the Weber Test

1) Open the AC440 Plug-in through AuditBase and go the Weber screen by clicking the **Weber tab**.



- 2) The input and output for channel1 and 2 are not preset for the Weber test and therefore grayed out
- 3) Use either the arrow buttons on the AC440 Plug-in, the PC keyboard or the dedicated keyboard to set the frequency and intensity
- 4) Present the stimulus by either touching the Stimuli area with the mouse, pressing S on the PC keyboard, or the touch switch on the dedicated keyboard. During stimulus presentation the Stimuli area will light up, visually letting the clinician that the bone conductor is vibrating.

Auto Save Settings

When the AC440 Plug-in is closed or another tab (tone, speech, Weber) is selected the the transducers (input/output selection), presentation, pulsation and sim/alt settings automatically will be saved in the XML file located under the application XML file under:

C:\Documents and Settings\All Users\Application Data\Interacoustics\ IA_ABAC440 Plug-in.xml

This XML file is hidden in Windows by default – to view it enable Show Hidden Files and Folders.

We do not recommend manually changing this XML file. However, experience super user and system administrators may want to change some default settings in the Common section of the XML file.

Warning: If a setting is typed in a wrong format (that cannot be read by the AC440 Plug-in) the XML file will automatically be overwritten by the default settings (and the old setting will be lost).

The following settings can be changed in the Common area:

```
SinglePulseLength
                                              :
   value between 200 -> 5000 (ms)
MultiPulseLength
                                              :
    value between 200 \rightarrow 5000 (ms)
DefaultIntensityWhenChangingOutput
                                              :
    MinusTen
    MinusFive
    Zero
    Five
    Ten
    Fifteen
    Twenty
    TwentyFive
    Thirty
    ThirtyFive
    Fourty
    FourtyFive
    Fifty
    Off
DefaultIntensityWhenChangingTest
                                              :
    MinusTen
    MinusFive
    Zero
    Five
    Ten
    Fifteen
    Twenty
    TwentyFive
    Thirty
    ThirtyFive
    Fourty
    FourtyFive
    Fifty
```

Off

```
MonitorLevel
                                               :
   value between -10 -> 30
TalkForwardLevel
                                               :
    value between -10 \rightarrow 30
TalkForwardIntenity
                                               :
   value between 0 \rightarrow 120 (SPL)
TalkbackLevel
                                               :
   value between 0 \rightarrow 100 (SPL)
IntensityDecreseFrequencySteps
                                              :
    Off
    Five
    Ten
    Fifteen
    Twenty
    TwentyFive
    Thirty
    ThirtyFive
    Fourty
IgnoreMouseOverTouchSwitch
                                               :
    True
    False
Ch2OppositeCh1Output
                                               :
    True
    False
```

PC Shortcuts

Function	Hotkey	Test
Tone Test	F5	Speech, Weber
Speech Test	F7	Tone, Weber
Weber Test	F8	Tone, Speech
Toggle TF	Shift+F1	Tone, Speech, Weber
Toggle TB	Shift+F2	Tone, Speech, Weber
Toggle Extended Range	Shift+F3	Tone, Speech
Toggle Monitor for Ch1	Shift+F4	Tone, Speech, Weber
Toggle Monitor for Ch2	Shift+F5	Tone, Speech, Weber
Iterate Output Ch1	1	Tone, Speech
Iterate Input Ch1	2	Tone, Speech
Iterate Output Ch2	3	Tone, Speech
Iterate Input Ch2	4	Tone, Speech
Manual Ch1	5	Tone, Speech, Weber
Reverse Ch1	6	Tone, Speech, Weber
Manual Ch2	7	Tone, Speech
Reverse Ch2	8	Tone, Speech
Synchronize Ch2	9	Tone, Speech
Alternate Ch2	0	Tone, Speech
Puls	Alt+8	Tone, Speech, Weber
Multi puls	Alt+9	Tone, Speech, Weber
Continuous	Alt+0	Tone, Speech, Weber
Toggle Synchrone	Y	Tone, Speech, Weber
Right	R	Tone, Speech
Left	L	Tone, Speech
Freq. up	Right	Tone, Weber
Freq. down	Left	Tone, Weber
dB. up Ch1	down	Tone, Speech, Weber
dB. down Ch1	up	Tone, Speech
dB. up Ch2	Page down	Tone, Speech
dB. down Ch2	Page up	Tone, Speech
Store Heard	S	Tone, Speech

Store Not Heard	Ν	Tone
Reset	Shift-R	Speech
Incorrect	Right	Speech
Correct	Left	Speech
Toggle left meas. type	Z	Tone, Speech
Toggle right meas. type	х	Tone, Speech
Interrupter Ch1	Left cont space	Tone, Speech, Weber
Interrupter Ch2	Right cont	Tone, Speech, Weber

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Addres	ss:						Phone		
							(+45) 6371	3555	
Phon	ie:						Fax (+45) 6371	3522	
Fax or e-ma							E-mail		
							into@inter	acoustics.c	om
Contact perso	on:				Date	ə:			
ollowing iten	n is reported	to be:							
🗌 retur	ned to INTE	RACOU	STICS	for: 🗌 repair, [🗌 exchange, 🗌	other:			
🗌 defe	ctive as desc	ribed b	elow w	ith request of ass	istance				
 repa	ired locally a	s descri	bed be	low					
	vina general i			escribed below					
	ang general		15 as u	escribed below					
em:	Type	:			Quantity:				
	• •								
	Serial No.	:			Supplied by:				
In	Serial No.	: 			Supplied by:				
In	Serial No.		rtantl	Accessories us	Supplied by:	h the it:	om must he	included	l if
In	Serial No.	Impo	rtant!	Accessories us g. external powe	Supplied by:	h the ite sets, tra	em must be ansducers a	included nd coupl	l if ers).
In Pescription of	Serial No. Included parts	Impo return the pe	rtant! ned (e	Accessories us g. external powe	Supplied by:	h the ite sets, tra	em must be Insducers a	included nd coupl	l if ers).
In Description of	Serial No. Included parts:	Impo return the pe	rtant! ned (e rforme	Accessories us g. external powe d local repair:	Supplied by:	h the ite sets, tra	em must be Insducers a	included nd coupl	l if ers).
In Description of	Serial No. Included parts	Impo return the pe	rtant! ned (e rforme	Accessories us g. external powe d local repair:	Supplied by:	h the ite sets, tra	em must be Insducers a	included nd coupl	l if ers).
In Description of	Serial No. Included parts	Impo return the pe	rtant! ned (e rforme	Accessories us g. external powe d local repair:	Supplied by:	h the ito	em must be ansducers a	included nd coupl	l if ers).
In Description of	Serial No. Included parts	Impo return the pe	rtant! ned (e rforme	Accessories us g. external powe d local repair:	Supplied by:	h the ite sets, tra	em must be Insducers a	included nd coupl	l if ers).
In Description of	Serial No. Included parts	Impo return the pe	rtant! ned (e rforme	Accessories us g. external powe d local repair:	Supplied by:	h the ite	em must be Insducers a	included nd coupl	l if ers).
In Description of	Serial No. Included parts	Impo return the pe	rtant! ned (e rforme	Accessories us g. external powe d local repair:	Supplied by:	h the ite	em must be insducers a	included nd coupl	l if ers).
In Description of Returned acco Da Please provide confirm recepti	Serial No. Included parts problem or problem or proting to age te : e-mail addre on of the retu	Impo return the per reemen	rtant! ned (e rforme at with:	Accessories us g. external powe d local repair:	Supplied by: ed together with ar supply, heads tics, Other : Person : ustics may	h the ite	em must be ansducers a	included nd coupl	l if ers).
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¹ EC Medical Device Directive rules require immediate report to be sent, if the device by malfunction deterioration of performance or characteristics and/or by inadequacy in labelling or instructions for use, has caused or could have caused death or serious deterioration of health to patient or user.