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Technical Release Note  
ONLY for Distributors

# AD528



**Interacoustics**



Title:	Distributor release note for AD528
Project:	AD528
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## Introduction

AD528 is the perfect air, bone and speech audiometer for any clinic, hospital or fitting shop looking for diagnostic power that can be scaled according to your specific test needs. We proudly call it 'Diagnostics made easy':

- **Starts in a few seconds.** Makes it ideal for the busy clinic or traveling clinician with many power ups during a day
- **Easy to use.** Few buttons ensure a short learning curve
- **Fast masking on/off.** Just turn the right wheel to turn masking on and off

### Flexible test battery

AD528 offers a flexible test battery with two special tests included. You can tailor AD528 to your needs by choosing between several optional tests.

AD528	
<b>Air, bone &amp; free-field</b>	<b>X</b>
<b>Speech: CD, MP3, microphone or wave-files</b>	<b>X</b>
<b>Stenger</b>	<b>X</b>
<b>Modified Hughson-Westlake</b>	<b>X</b>
Békésy	Optional
Weber	Optional
ABLB	Optional
SISI	Optional
Tone in noise (Langenbeck)	Optional
Speech in noise & binaural speech	Optional
Sync license for integration with NOAH, EMR systems or OtoAccess®	Optional

### Outstanding ergonomics

Ergonomics is a key aspect of AD528. The angle of the keyboard together with the conveniently positioned tone switch and wheels secure a relaxed working position. This will save your wrists from strain and make it more comfortable to perform measurements all day.

### Have it in your language

You can change the display language to Chinese, Czech, English, Finnish, French, German, Greek, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish or Turkish. You can also choose the keyboard text to be in one of these languages: Brazilian Portuguese, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Russian, Spanish or Turkish.

Other languages can be offered with a minimum order quantity of 10 pcs. per year.

### Design your own reports and printouts

The optional software suite includes a print wizard for customizable reports and printouts. You can also print directly to a small 3" printer.



### Ideal for traveling

The small footprint and low weight of 1.5 kg combined with the optional carrying bag and fast start up time make AD528 the natural companion for the clinician on the road.

### Integrate with numerous systems

You can choose a sync license for integration with NOAH, local EMR database systems or OtoAccess® Database.

## Key selling points

1. Ease of use
2. Flexible test battery
3. Ergonomics
4. Ideal for traveling
5. Localization of both keyboard and display texts to major markets
6. Standalone, sync mode and standardized integration with third party SW (ADI) tailored to the need of the customer

## License overview – AD528 vs. AD226 & AD629

	AD226	AD528	AD629
Air, bone & speech	Air & bone only	<b>X</b>	X
Stenger	X	<b>X</b>	X
Modified Hughson-Westlake	X	<b>X</b>	X
ABLB	X	<b>Optional</b>	X
Békésy	Extended license	<b>Optional</b>	Extended license
SISI	Extended license	<b>Optional</b>	X
Langenbeck	Extended license	<b>Optional</b>	Extended license
Weber	-	<b>Optional</b>	X
Speech in noise & binaural speech	-	<b>Optional</b>	Extended license
MHA	-	-	Extended license
QuickSIN	-	-	Optional
TEN test	-	-	Optional
HF	-	-	Optional
HLS	-	-	Extended license
Masking assistant / helper	-	-	Diagnostic Suite
Sync license incl. ADI	-	<b>Optional</b>	Optional
Hybrid	Optional	-	Optional



## Available materials

Material for end-users		
Material	Description	Where to find it
<b>Brochure</b>	Describes and shows pictures of the main features of the unit Brochure AD528 International Brochure AD528 Brazilian Portuguese* Brochure AD528 Chinese* Brochure AD528 French Brochure AD528 German Brochure AD528 Italian Brochure AD528 Japanese* Brochure AD528 Korean* Brochure AD528 Russian* Brochure AD528 Spanish Brochure AD528 US version* *Will come when local registration is complete	Interacoustics website Hardcopy – Customer Service
<b>Instructions for use</b>		Interacoustics website
<b>Technical specification</b>	English version only but the technical specification can also be found in the translated instructions for use	Interacoustics website

Material for distributors / sales companies		
Material	Description	Where to find it
<b>End-user PowerPoint</b>	For presentation of the AD528 at end-user site. Language versions: Brazilian Portuguese Chinese English French German Italian Japanese Korean Russian Spanish	Extranet
<b>Recorded webinar</b>	Recorded introductions	Extranet
<b>Technical release note</b>	Technical information of the unit	Extranet
<b>Service manual</b>	Describes how to do service on the unit	Extranet
<b>Product comparison</b>	Compares the AD528 with Interacoustics & competitor audiometers	Extranet
<b>Pull up</b>	Pull up for fairs	Hardcopy – Customer Service
<b>Poster</b>	Poster for end-users and sales companies / distributors	Extranet Hardcopy – Customer Service
<b>e-Blast</b>	Graphics for mailings	Extranet



<b>Advertisements</b>	For local advertising	Extranet or Annette K. Knudsen <a href="mailto:aknu@interacoustics.com">aknu@interacoustics.com</a>
<b>Photos</b>	Photos of the AD528	Extranet or Annette K. Knudsen <a href="mailto:aknu@interacoustics.com">aknu@interacoustics.com</a>

## Software/Firmware

### AD528 Firmware

The AD528 firmware version is v.1.0.2.

### Diagnostic Suite

You can transfer the test results from the AD528 to the PC by using Diagnostic Suite 2.7.2 via the SYNC module. This can be achieved by use of an optional license.

### Languages – AD528/Diagnostic Suite

	Chinese	Czech	English	Finnish	French	German	Greek	Italian	Japanese	Korean	Norwegian	Polish	Portuguese	Russian	Spanish	Turkish
<b>AD528</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Diagnostic Suite</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Manuals

All manuals can be found on our website: [interacoustics.com](http://interacoustics.com).

Instructions for Use are available in the following languages:

- D-0121151-B 2018 11 Instructions for use AD528 EN ES FR DE
- D-0121155-B 2018 11 Instructions for use AD528 SV DA PL
- D-0121158-B 2018 11 Instructions for use AD528 EL CS SL IT
- D-0121162-B 2018 11 Instructions for use AD528 ZH
- D-0121164-B 2018 11 Instructions for use AD528 BRPT
- D-0121165-B 2018 11 Instructions for use AD528 RU
- D-0121166-B 2018 11 Instructions for use AD528 JA
- D-0121167-B 2018 11 Instructions for use AD528 US



## Windows® requirements

Before installation, please ensure that your Windows® operating system is compatible with the software module.

Features	Diagnostic suite	Noah 4	OtoAccess®
<b>Current released version</b>	2.7.2	4.9.1	2.0
Windows® 7 Professional – 32/64 bit	Yes	Yes	Yes
Windows® 8 Professional – 64 bit	Yes	Yes	Yes
Windows® 10 Professional – 32/64 bit	Yes	Yes	Yes

## Local settings & speech files

Setting files are loaded in the production to ease the process of installing the device. In case you would like setting files to be configured or tailored to your country, please contact service [service@interacoustics.com](mailto:service@interacoustics.com).

Speech files are loaded in production to ensure the material is validated and to ease the process for you as a distributor in the installation of the speech files. If you have specific speech material that you would like the device to be delivered with, please contact service [service@interacoustics.com](mailto:service@interacoustics.com).

## Hardware

### Included & optional parts – overview

Included parts:

AD528, power supply, B71 bone conductor, APS3 patient response, cleaning cloth and Instructions for Use.

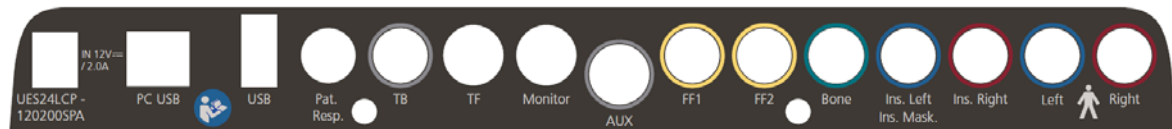
Headset	
DD45 Audiometric headset P3045	Optional Only one can be chosen
DD45 Audiometric headset P3100	
DD45AA Audiometric headset	
DD450	
Insert phones	
IP30 insert phone	Optional Only one can be chosen
IP30 single insert (masking)	
Accessories	
MTH400m (monitor headset)	Optional
EMS400 Electret microphone stand (TB mic)	Optional
EM400 Electret microphone (TB mic)	Optional
HM-300 printer kit	Optional
Sound room kit	Optional
Bag	Optional




Licenses	
Bekesy	Optional
SISI	Optional
ABLB	Optional
Langenbeck	Optional
Weber	Optional
2 channel speech & speech in noise	Optional
Diagnostic Suite Sync / ADI module	Optional
OtoAccess	Optional
Keyboard	
Keyboard texts in local language <b>Other languages can be offered with a minimum order quantity of 10 pcs. per year</b>	Braz. Portuguese, Chinese, English, French, German, Italian, Japanese, Polish, Russian, Spanish or Turkish

### AD528 Connections

The back panel contains the connectors (sockets):




Name	Description
Power 	Only use power supply UES24LCP-120200SPA
PC USB	For PC connection
USB	For printer/mouse/keyboard/USB stick
Pat. Resp.	Patient response
TB	Input for talk back microphone
TF	Talk forward in headset
Monitor	Monitor headset
AUX	AUX (stereo mini jack)
FF1	Free field 1
FF2	Free field 2
Bone	Bone conductor
Ins. Left	Insert left
Ins. Mask.	Insert masking
Ins. Right	Insert right
Left	Audiometry left output
Right	Audiometry right output

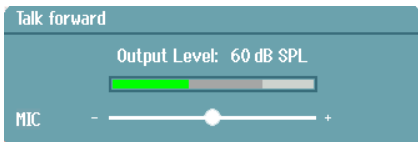



## AD528 Stand-alone operation panel




No	Name	Description
1	Speaker	The speaker is used for the talk back and monitor if the speaker in the monitor headset is not plugged in.
2	Microphone	The microphone is used for the talk forward if the microphone in the monitor headset is not plugged in.
<b>Hard keys</b>		
3		Turns AD528 ON/OFF.
4	<i>Shift</i>	The shift key activates the sub functions of the other keys.
5	Setup	Hold down <b>Setup</b> and use the wheels to select the desired setup menu. Let go of the <b>Setup</b> button to open it.
6	Function keys	The six function keys hold functions displayed on the screen directly above the individual F-key. The function depends on the test screen.
7	Del Point <i>Del curve</i>	Delete points during audiometry testing. Delete the entire audiometry threshold curve of a graph by holding shift together with this button.
8	Save session <i>New session</i>	Saves the current session. Create a new session by pressing shift together with this button. A new session will recall the default settings.
9	Print <i>Clients</i>	Prints the session to the printer set in Instrument settings – Printer. Press the <b>Clients</b> button to open a window in which a client can be selected, session viewed and if needed deleted.
<b>Patient communication</b>		
10	Talk Forward	Allows for communication with the patient, talking through the microphone by the operator and heard by the patient in the selected transducer headset.



		<p>The microphone used for talk forward is the one plugged into the socket TF as first priority. If a microphone is not plugged in, the internal microphone will be used.</p> <p>The output level for talk forward is changed by turning the left wheel while holding the Talk Forward button.</p> <p>The gain of the MIC can be adjusted by pressing Talk Forward and turning the right wheel. Please refer to the speech section for setup of MIC gain level.</p> 
11	Monitor/TB	<p>Monitor/TB activates the monitor and Talk Back (TB) from the patient in the test cabin. When activated, the patient can be heard through the built-in speaker or the monitor headset.</p> <p>Adjust the Monitor/TB gain for Ch 1, Ch 2 or TB by holding the Monitor/TB button down.</p> 
<b>Transducer selection</b>		
12	Right	Selects right test ear, and toggles between headset and insert earphone transducers.
13	Left	Selects left test ear, and toggles between headset and insert earphone transducers.
14	Bone	Press this button to use the bone conductor for audiometry. First push selects the right ear for testing, while the second push selects the left ear for testing. The light above the button will indicate the ear selected.
15	FF	Press <b>1 FF 2</b> to select the free field speaker as output for channel 1. First push will present the sound through free field speaker 1, while the second push will present the signal through free field speaker 2.
<b>Test selection</b>		
16	Tone/Warble	Pressing this button lets you toggle between pure tones and warble tones during audiometry. During speech tests this button can be used to enter the tone audiometry.
17	Speech	Allows for presentation of speech material using built-in wave files, aux or mic input. The speech material must be installed and set up in the speech settings.
18	Tests	Hold down <b>Tests</b> and use the wheel to select the desired test. Let go of the button to make your selection.
<b>Operation keys</b>		
19	Store	Stores threshold.



	<i>No response</i>	Allows for storage of a no response when the patient does not respond to the presented tone/signal.
<b>20</b>	Ext. range	Allows for testing at higher intensity levels during audiometry. The light above the button will turn slightly orange when extended range is available.
<b>21</b>	Wheel	The wheel is multifunctional. It is used for adjusting the level of the output for channel 1 during audiometry.
<b>22</b>	Tone Switch <i>Enter</i>	Used for tone switch in audiometry. In menus enter is used for making selections.
<b>23</b>	Incorrect/Down	Incorrect is used during speech audiometry for storing an incorrect word. Down is used to decrease in frequency during audiometry.
<b>24</b>	Correct/Up	Correct is used during speech audiometry for storing a correct word. Up is used to increase in frequency during audiometry.
<b>25</b>	Wheel  Sync 	Masking is turned off by turning the wheel all the way counter clockwise.  Masking can be turned off from a loud intensity by pressing shift + turning the masking wheel counter clockwise.  Shift + turning the masking wheel clockwise will enable sync. Turning masking off will disable sync again. The icon to the left will indicate when the channels are in sync.