

VADAS

System-Amplifier

Quick-Start Guide



Thank you very much,
for purchasing a Voice-Acoustic product.
Since 2006 we have been developing our
products in the firm belief that details matter.
May we wish you a lot of pleasure with this product.

Herzlichen Dank,
dass Sie ein Voice-Acoustic Produkt gekauft haben.
Seit dem Jahr 2006 entwickeln wir unsere Produkte
in der Überzeugung, dass es auf die Details ankommt.
Wir wünschen Ihnen viel Freude mit diesem Produkt.

Muchas gracias
por haber comprado un producto de Voice-Acoustic.
Desdel año 2006 estamos desarrollando nuestros productos
estando convencidos, que son los detalles que cuentan.
Le(s) deseamos mucha alegría usando este producto.

Merci beaucoup
d'avoir acheté un produit Voice-Acoustic.
Depuis 2006, nous développons des produits
avec la ferme conviction que les détails comptent.
Nous vous souhaitons beaucoup de plaisir à utiliser ce produit.



Introduction Software installation

You can use the established ArmoniaPlus software from Powersoft for remote control of the Voice-Acoustic VADAS system amplifiers. To download the software from the Powersoft website, you must register with Powersoft and create a user account.

<https://www.powersoft.com/>

Directlink: <https://identity.powersoft.com/login/#/en/register>

Please make a note of your login details. In the ArmoniaPlus software, you will also need to be connected to your 'my-Powersoft' account in order to install a plug-in to detect VADAS amplifiers.

Once you have registered, you will be able to download the latest version of ArmoniaPlus.

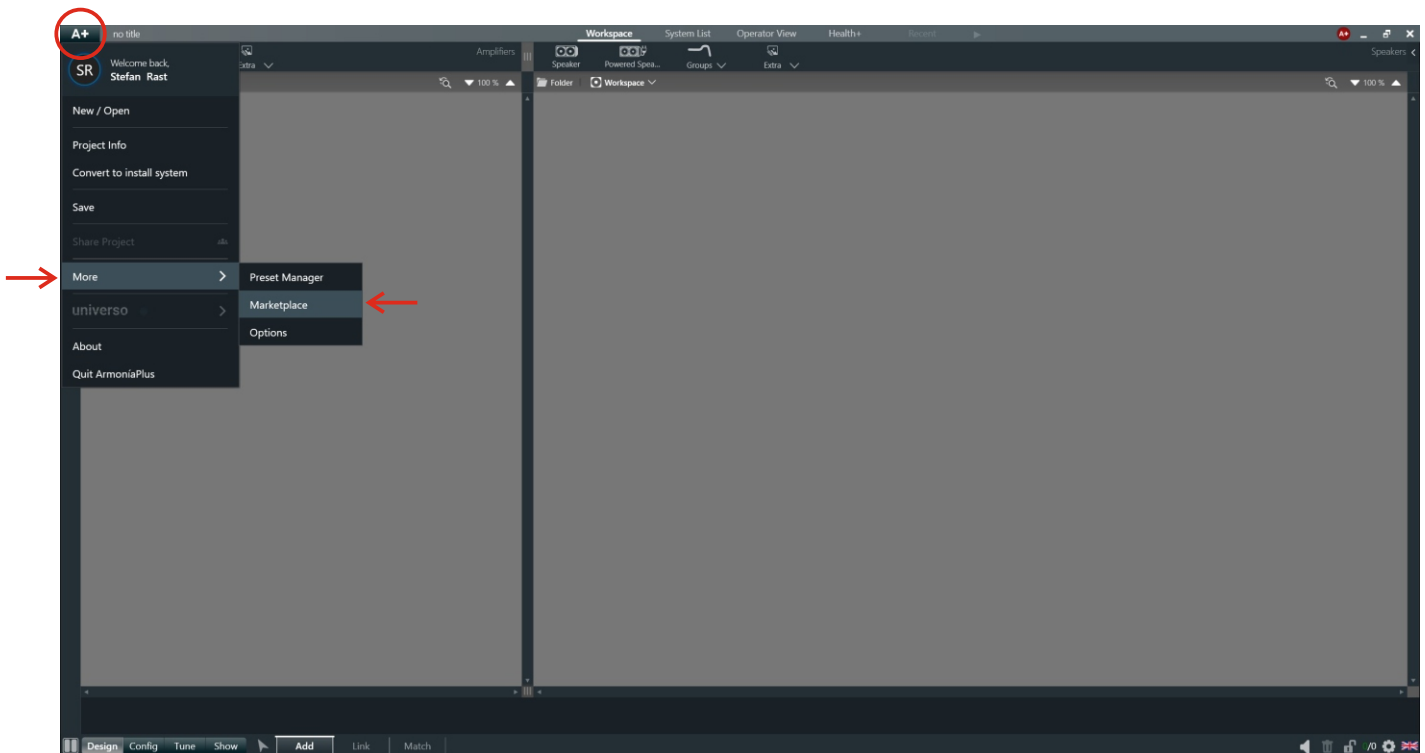
Directlink: <https://www.powersoft.com/en/download/software/armoniaplus/>

Note: The software can only be installed on Windows operating systems and is not available for Apple operating systems. Reboot your computer after installing the software.

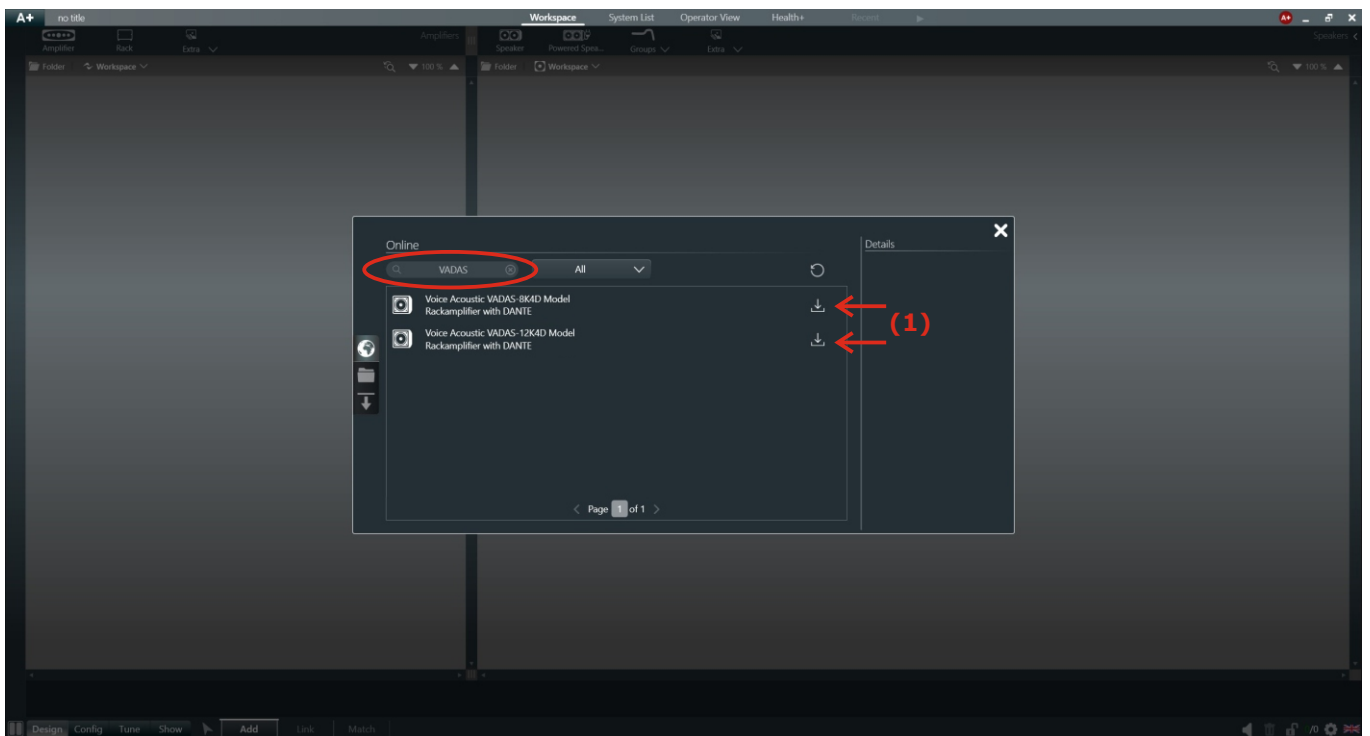
When you start Armonia on your PC, you will be asked to update to the latest version if a software update is available. If an update to a new version does not work, uninstall the old version of Armonia and completely reinstall the latest version. If you depend on the Armonia software to control your loudspeaker system, do not update the software directly on the job. Each software update is thoroughly tested, but as with any software, it is impossible to guarantee that it will not cause complications. When updating, always take safety first and do not update just before or during an event.

Installation VADAS PlugIn in ArmoniaPlus

In order for the Voice-Acoustic VADAS amplifiers to be recognised and accepted by ArmoniaPlus, a plug-in must be installed. Your computer must be connected to the Internet during this process. To do this, click on the **A+** icon at the top left of the menu bar. Then click on **More** in the drop-down menu and then on **Marketplace**.



A search window opens. Type the word VADAS into the search bar:



Now you can click on the **download icons** (1) on the right and the plug-ins will be installed in a few seconds. Please follow this procedure for VADAS-12K4D and VADAS-8K4D.

After successful installation, you read the message: Package installation successful!

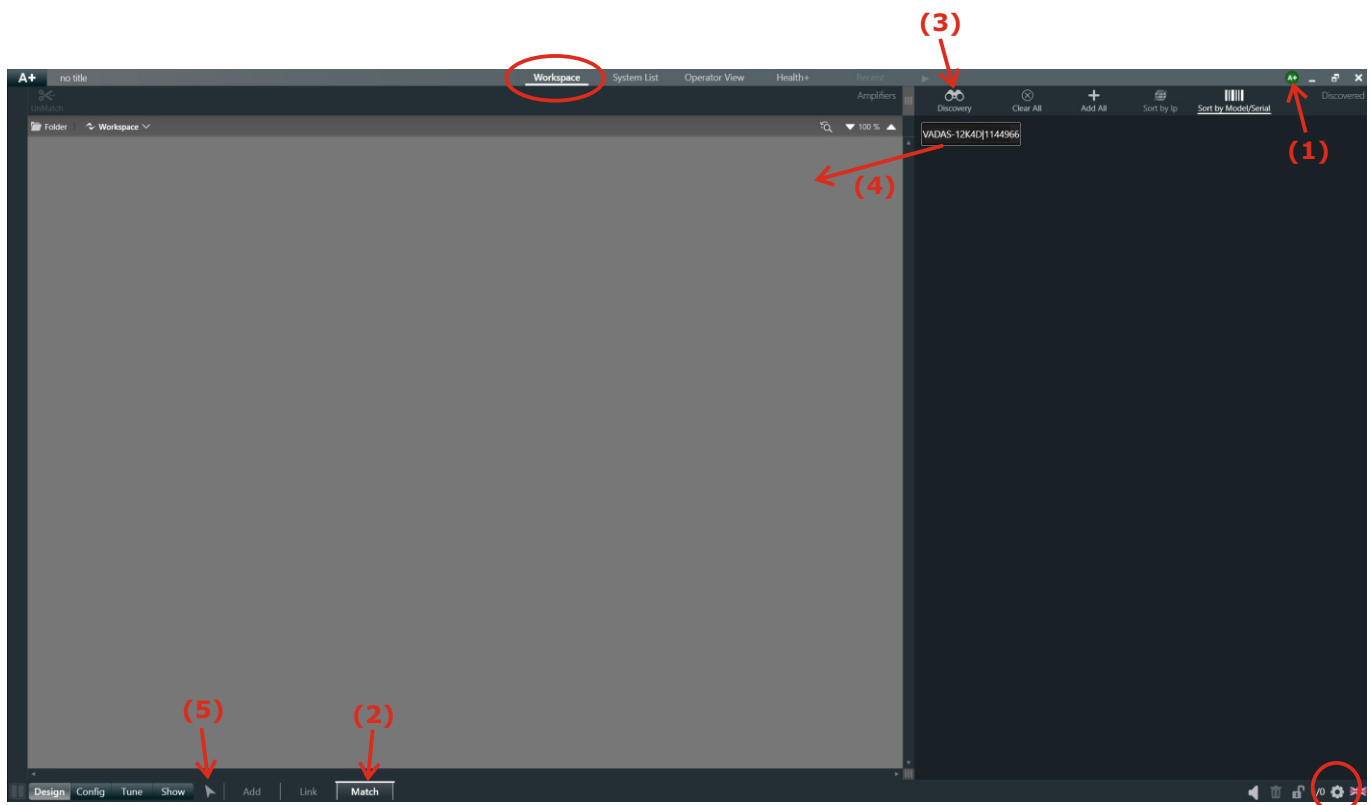
After restarting ArmoniaPlus, the Voice-Acoustic VADAS amplifiers will be detected and accepted by the software.

Access to the VADAS amplifier

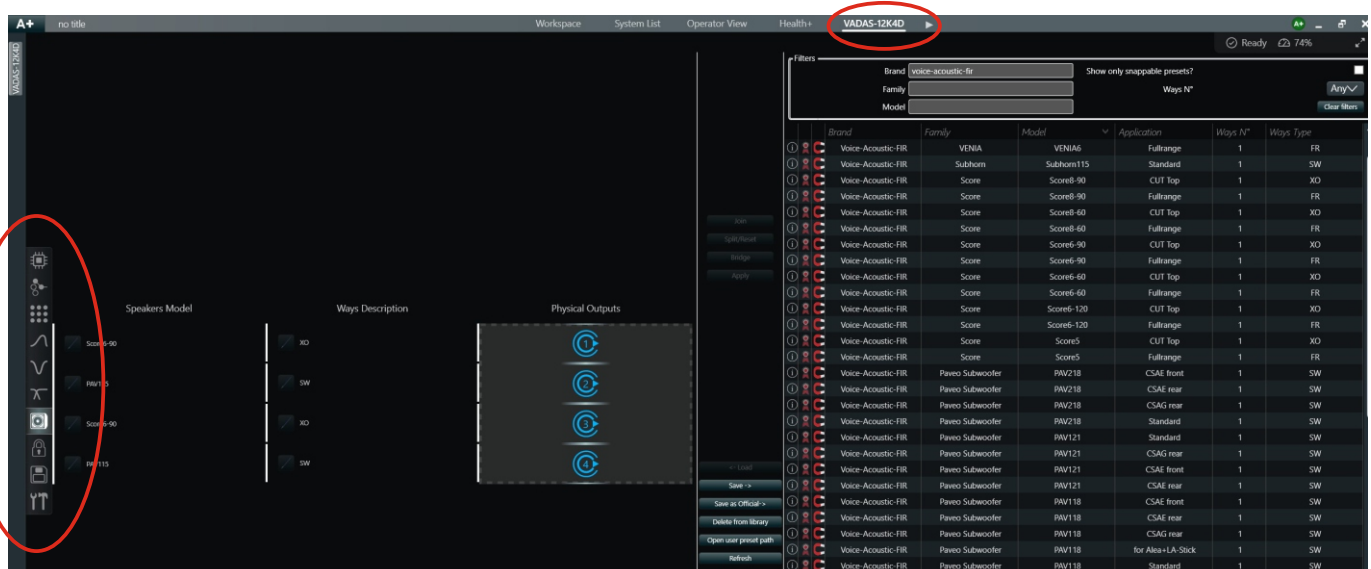
Once you have loaded the plug-ins and restarted the software, you will be able to access your VADAS amplifier. In the workspace (red circle), click on the small green **A+** icon (1) in the top right-hand corner and switch Sync to ON. Then click on **Match** (2) and then on Discovery (3).

The Armonia software should now find all the VADAS amplifiers on the network. If not, click on the gear menu at the bottom right (red circle) and check the Communication Manager. Ethernet must be ON and an IP address must be assigned. Left-click on the amplifiers you have found and drag them to the left of the window (4).

When dragged over to the left-hand window, the amplifier synchronises for a few seconds and then you can operate the VADAS in Armonia. To do this, first click with the mouse on the **arrow** at the bottom left (5) and then double-click on the amplifier in the left-hand side of the window. The amplifier menu then opens and you have access to the user level functions in the VADAS via the menu navigation on the left-hand side.



The illustration shows the VADAS user interface and menu navigation (red circle). Explanation of functions in this manual.



Implementation of preset library in Armonia

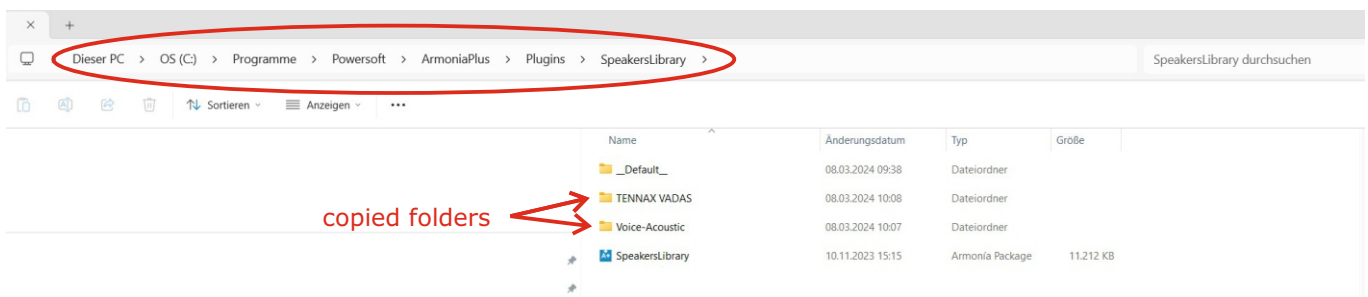
All Voice-Acoustic and TENNAX Audiotechnik loudspeaker presets are pre-programmed into the VADAS amplifier. The presets can be recalled manually via the amplifier's IPS touch screen and the amplifier is immediately ready for use. To load the presets with ArmoniaPlus, they must be installed in a file path on your computer. The presets are not included in the official Powersoft library because they can only be loaded onto Voice-Acoustic VADAS system amplifiers and not onto Powersoft amplifiers such as the T or X series. It is also not possible to load loudspeaker presets from other manufacturers onto the VADAS.

To install the Voice-Acoustic and TENNAX loudspeaker presets in ArmoniaPlus, please download the ZIP folder containing the .spk3 files from the download section of our website:
<https://www.voice-acoustic.de/downloads/produkte.html>

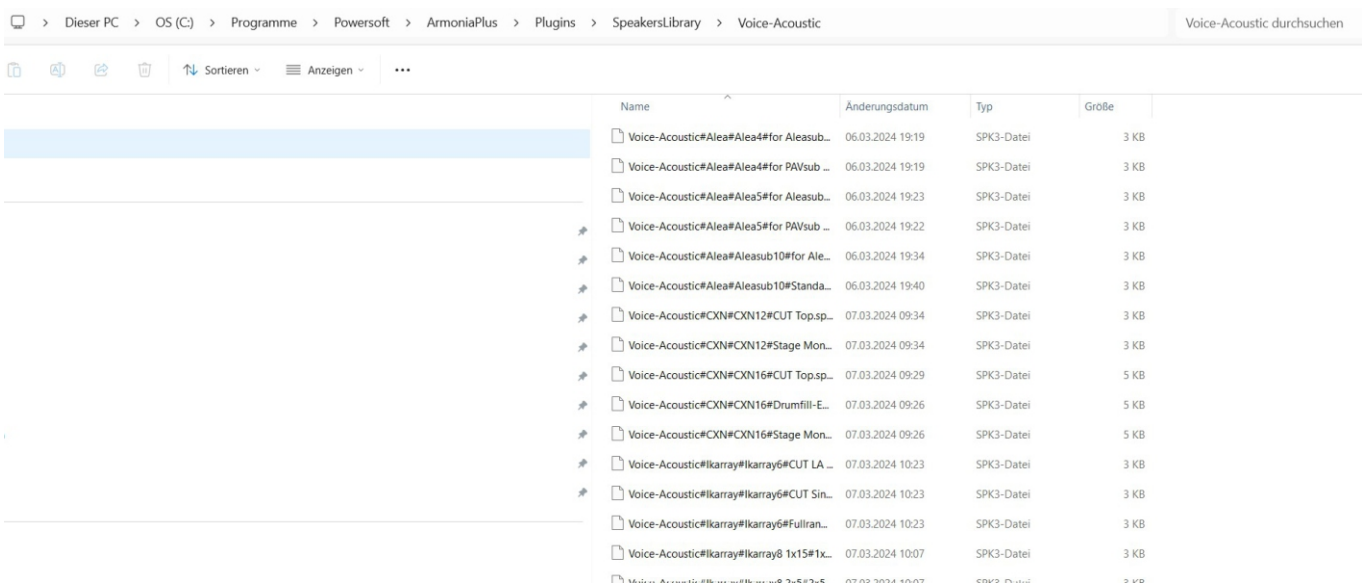
Directlink: <https://www.voice-acoustic.de/downloads/software-de.html>

Unzip the ZIP file and copy all preset folders (only these, no other files or documents) into the user preset path::

C:\Program Files\Powersoft\ArmoniaPlus\Plugins\SpeakersLibrary



The folder now contains the .spk3 files with the speaker presets found by ArmoniaPlus. Now you can enter the word **Voice** or **TENNAX** in the Armonia-Plus preset library search and the presets will be displayed and can be loaded into the output channels of the software.



Update the preset library in Armonia, step 1: Save library to PC

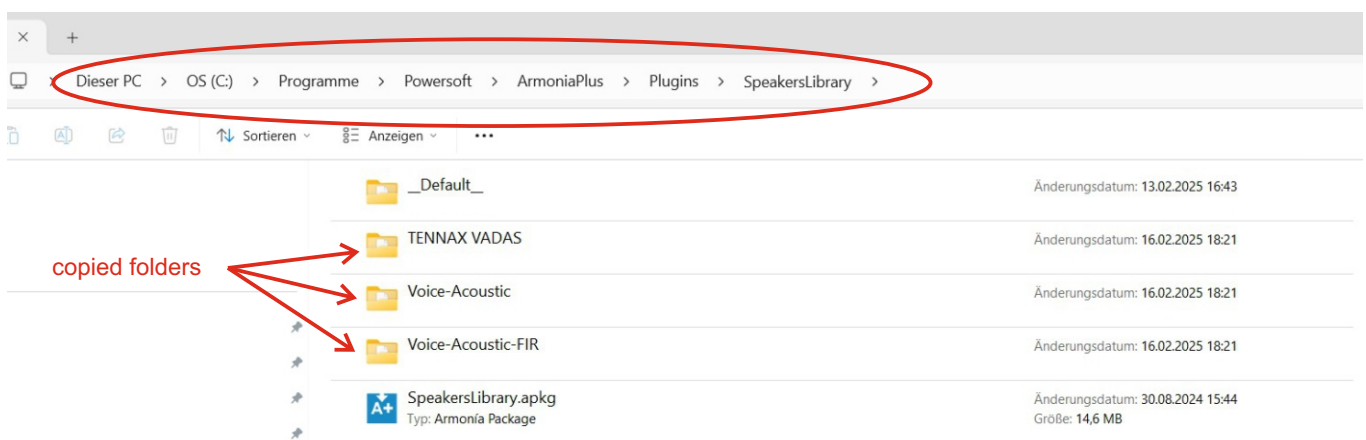
As soon as Voice-Acoustic updates the software library for the VADAS amplifier platform, you can download the latest presets from the website and also copy them to the file path with the Speaker Library. Delete the existing folders with the older library first! The download link on the website is always kept up to date with the latest library.

Directlink: <https://www.voice-acoustic.de/downloads/software-de.html>

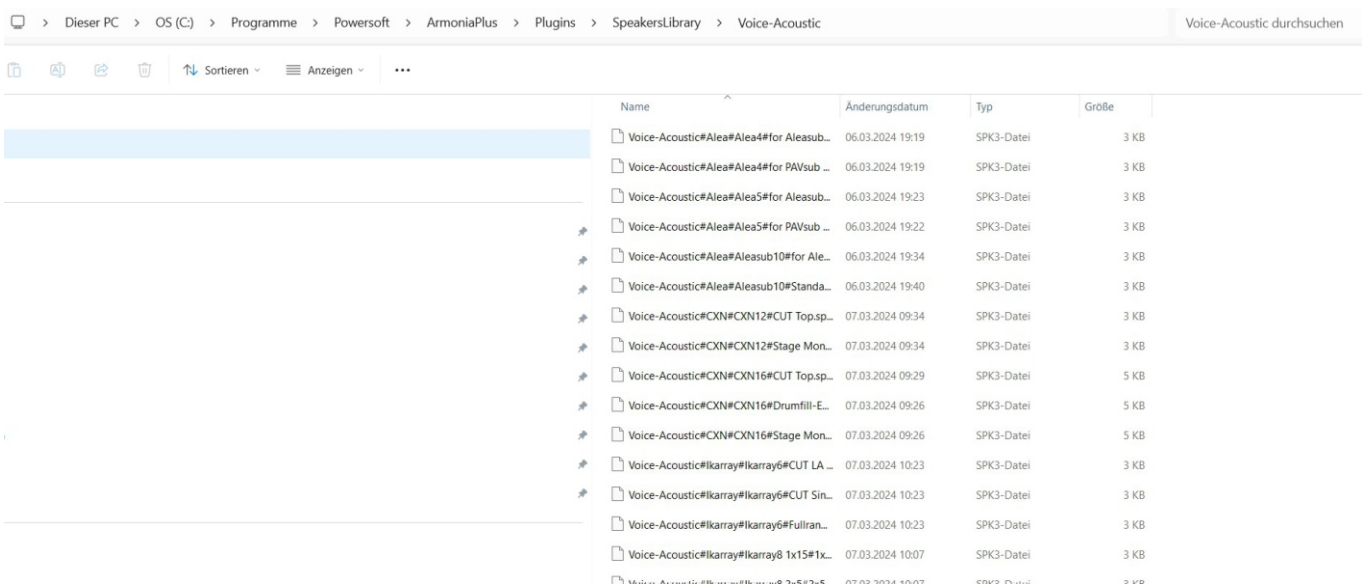
Unzip the ZIP file and copy only the folders with the presets into your user preset path.

C:\Program Files\Powersoft\ArmoniaPlus\Plugins\SpeakersLibrary

With the FIR Library Rev. 1.1. update on 16 February 2025, there are three folders that you need to copy: Voice-Acoustic, Voice-Acoustic-FIR, TENNAX.

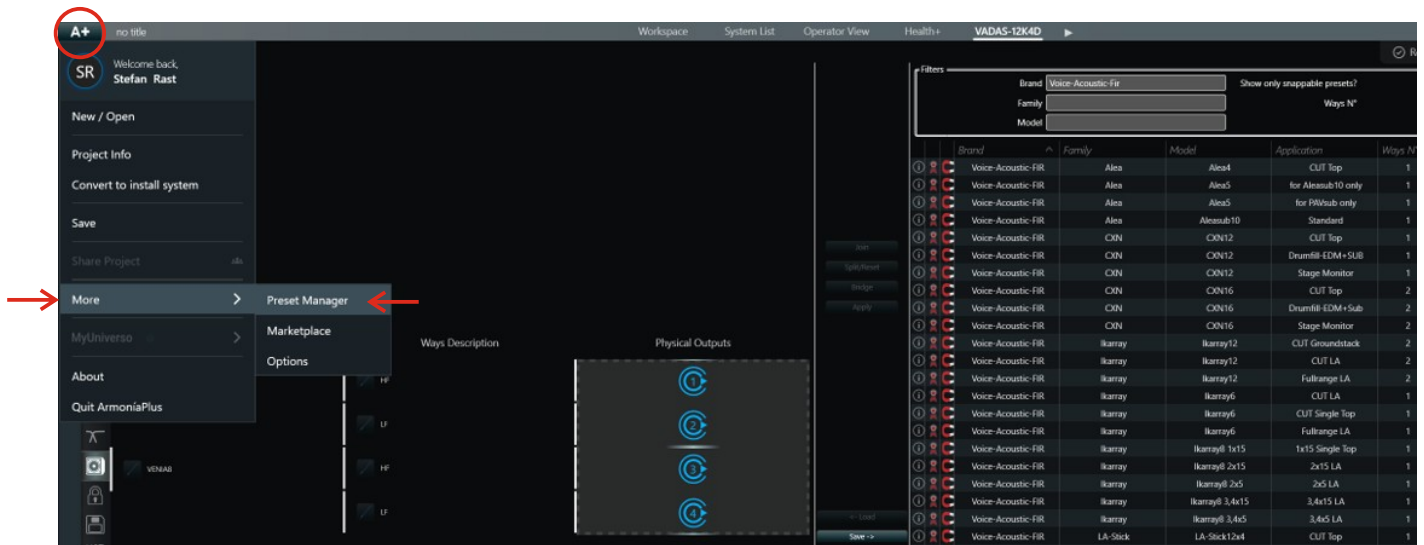


The folder now contains the .spk3 files with the speaker presets found by ArmoniaPlus. Now you can enter the word **Voice** or **TENNAX** in the Armonia-Plus preset search and the presets will be displayed and can be loaded to the output channels in the software.

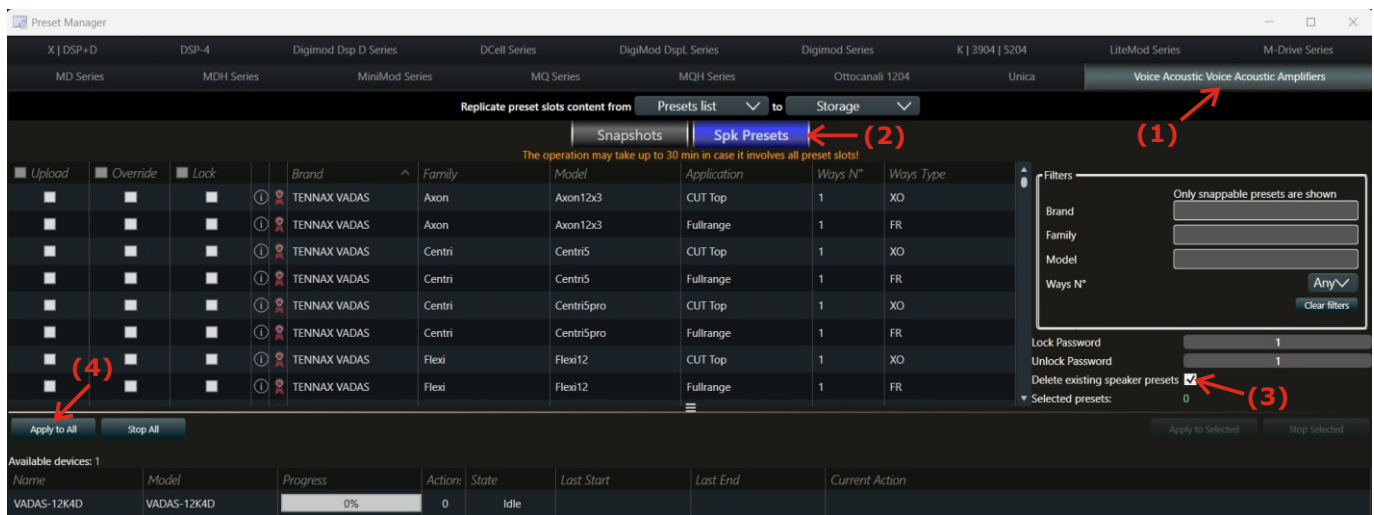


Update the preset library in the amp, step 2: delete the old presets

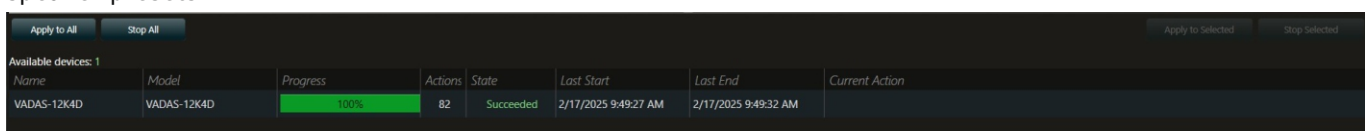
Once you have saved the folder containing the latest preset files to the SpeakerLibrary on your PC as described above, you can transfer the presets to the internal DSP memory of the VADAS amplifiers. To do this, click on the **A+** icon in the top left hand corner of the menu bar. From the drop down menu, select **More** and then **Preset Manager**.



In the Preset Manager, select **Voice-Acoustic Amplifiers** (1), then click the **Speaker Presets** button (2). Then tick **Delete existing speaker presets** (3). Then click on **Apply to All** (4) in the bottom left-hand corner. The old preset library will now be deleted from the VADAS amplifier. You can see the progress of the process in the Progress section. Wait for the process to complete.



Deletion process completed, Succeeded is displayed. The number under Actions may vary depending on how many presets were present on the VADAS and were deleted. Now remove the tick next to Delete existing speaker presets.



Update the preset library in the amp, step 3: Transfer library to amp

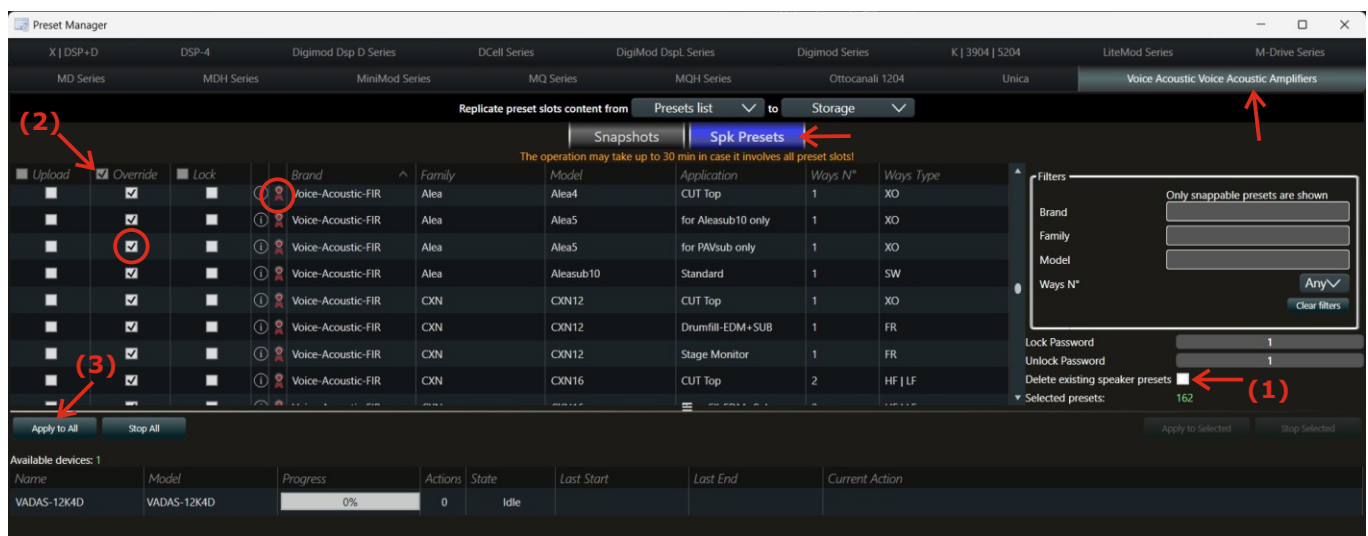
After clearing the **Delete existing speaker presets** checkbox (1), tick the **Override** checkbox (2). This will select all the presets that Armonia finds on your PC in the SpeakersLibrary folders and in the User Presets path. If you create and save your own user presets, they will be stored in the following folder and will also be detected when the library is updated:

C:\Users\Public\Documents\Powersoft\ArmoniaPlus\SpeakersLibrary

You can recognise official Voice-Acoustic presets by the red lighthouse symbol (circled) in front of the **Brand** field. If you hover over it without clicking, a text box will appear with the words 'Speaker presets officially developed or approved by the manufacturer'. If the lighthouse is white and not red, it is a user-created preset, not a manufacturer-created preset.

If you wish to transfer any User Presets you have created to the VADAS DSP memory, leave the box next to the User Presets ticked (red circle). If you only wish to transfer the official manufacturer presets to the internal memory of the VADAS, uncheck the User Presets with the white lighthouse symbol.

Then click on **Apply to All** (3) and Armonia will transfer the presets from the PC to the VADAS DSP memory. Wait until the process is 100% complete and the status **Succeeded** appears.



Updating the snapshot library with ArmoniaPlus

Explanation of Snapshots:

VADAS amplifiers and Armonia software distinguish between individual loudspeaker presets and snapshots. A single preset can be loaded to each output channel of the amplifier. If the selected presets are loaded on all 4 amplifier channels, this configuration can be saved as a snapshot in a block. A snapshot also saves the selected signal input routing and user-level filter settings, such as input gains or input EQs.

In addition to the Preset Library with individual loudspeaker presets, Voice-Acoustic also maintains the Snapshot Library. This saves the user having to load 4 individual presets for common set configurations.

For example, a ready-made snapshot can be used to load 4x CXN-12s, whose signal routing is already preset in the snapshot for monitor applications. CXN-12 on channel 1 receives signal input 1, CXN-12 on channel 2 receives signal input 2, etc.

With the classic SubSat sets, the subs in the snapshots receive the mono sum of IN1 and IN2. e.g. snapshot with Score-6 + Paveosub-115: Channel

- 1: Score-6, input routing IN1, left stereo channelChannel
- 2: Paveosub-115, input routing IN1/IN2Channel
- 3: Score-6, input routing IN2, right stereo channelChannel
- 4: Paveosub-115, input routing IN1/IN2

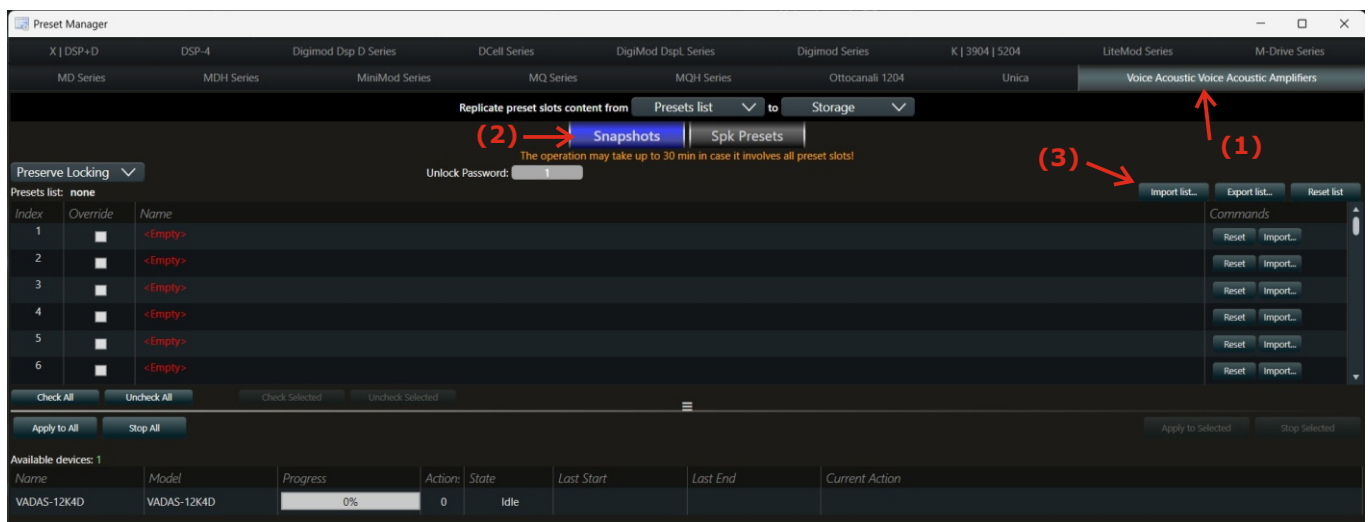
Users can quickly recall a set configuration and then simply adjust the ratio of subs to tops using the gain control.

The download file on our website contains a snapshot .plst file in addition to the folders with the Speaker Library. Save this file somewhere on your PC, but not together with the folders of the presets in the Speaker Library and the Pogram directory of Armonia!

Loading and updating the snapshot library:

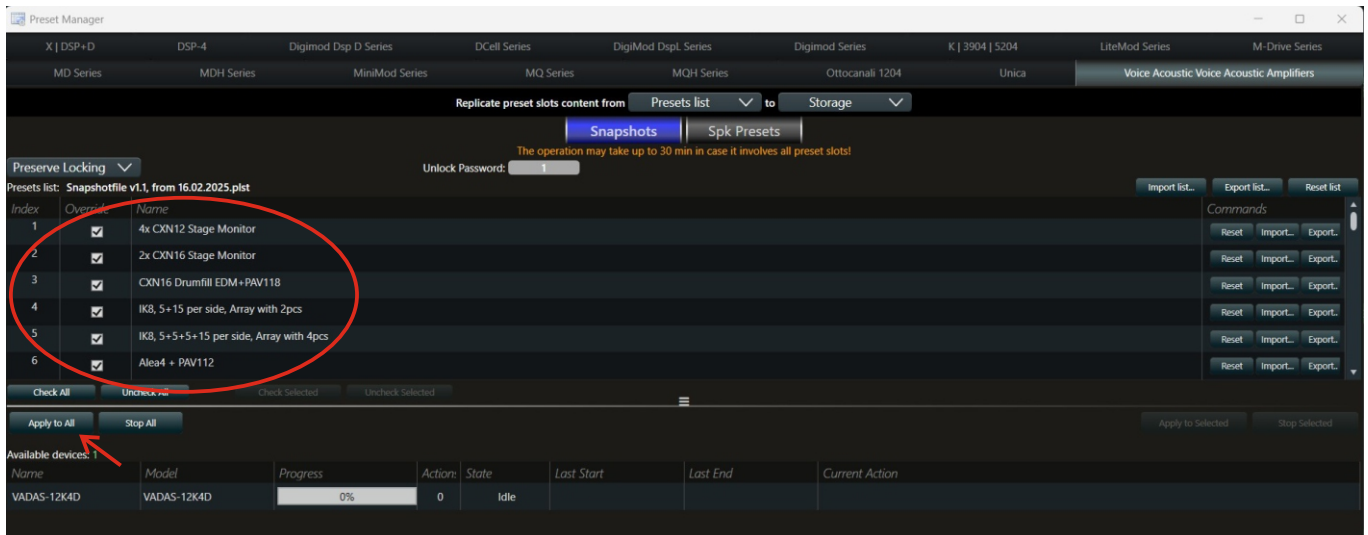
In the Preset Manager, select **Voice-Acoustic Amplifiers** (1) and then click on the **Snapshots** button (2).

Then click on **Import List** (3) and import the snapshot file with the .plst extension that you have previously saved on your PC. The individual snapshots will then be automatically loaded into the index locations in Armonia. The snapshots can then be transferred to the VADAS amplifier's DSP memory by clicking on **Apply to All**, see next page.



Update of the snapshot library with ArmoniaPlus

Once you have imported the snapshot list, the names of the snapshots will appear in the overview (red circle). Click **Apply to All** again to transfer the snapshots from Armonia to the amplifier's DSP memory. Wait until the process is 100% complete and the status is **Succeeded**.



Loading presets and creating your own user presets

Load the desired loudspeaker presets to the output channels in the **Speaker Configuration** menu (1) by entering Voice-Acoustic (for the IIR presets) or Voice-Acoustic-FIR (for the FIR presets) in the **Filter box** (red circle). You can also search directly by loudspeaker family (e.g. Score or Ikarray) and model name, saving you having to scroll through the entire list.

Left-click on the red **horseshoe symbol** (3) of the preset, hold down the mouse button and drag the preset to the **blue circle of the physical outputs** (3) of the desired amplifier channel. Then confirm with **Apply** (4) and the preset is loaded.

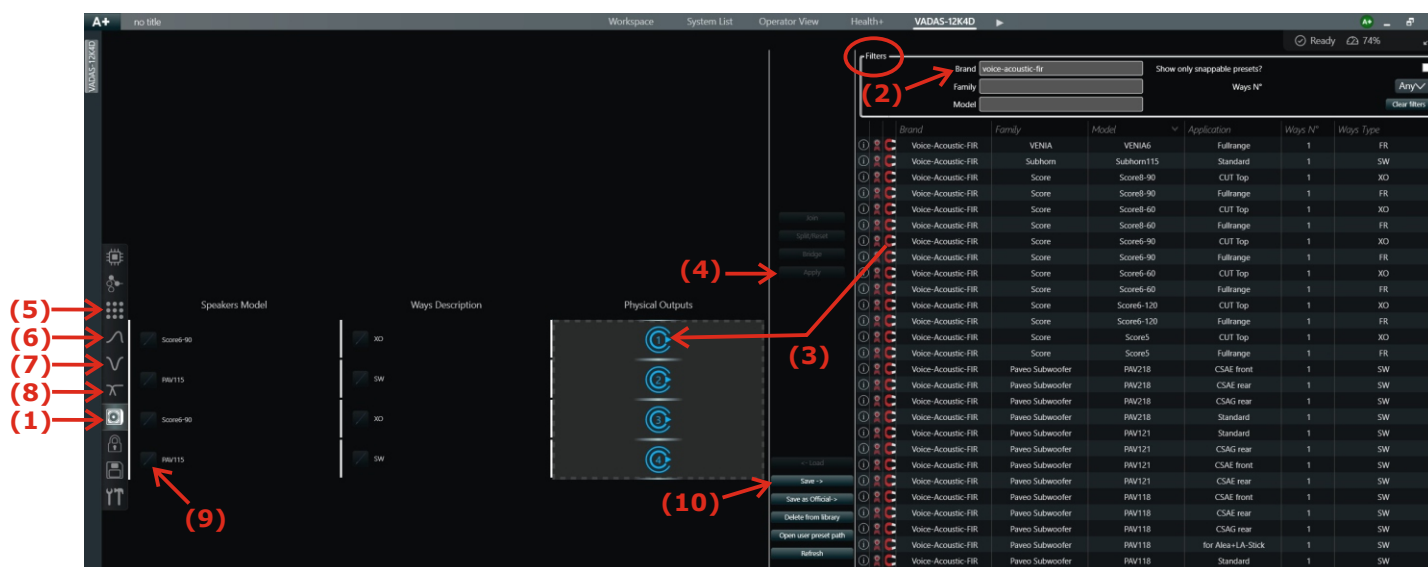
When distributing the presets to the output channels, make sure that the Speakon assignment of the loudspeakers matches the Speakon assignment of the VADAS amplifiers or CP4-OUT connection panels! The Voice-Acoustic tops are always assigned to Speakon 1+/1- and the subwoofers to 2+/2-. In the example below, the top and sub presets are assigned to the outputs in such a way that the amplifier channels can be tapped with a 4-pin Speakon cable at the double Speakon outputs of the VADAS or CP4-OUT panel, so that you can simply wire through from the sub to the tops and the speakers receive the correct amplifier channel.

In the **Matrix** menu item (5), you can set the signal routing of the signal inputs to the output amplifier channels.

The signal inputs are labelled with the numbers 1, 2, 3, 4 and the amplifier outputs with the letters A, B, C, D.

In the **Advanced EQ** menu item (6), you can set e.g. gains, delays, user EQ filters. You can drag and drop the EQ or shelving filters from the top (red symbols) to the bottom of the operating window.

EQs are also available to the user in the **Speaker Eq** menu item (7). The **Ways** menu item (8) is locked for users. The manufacturer's filter and limiter settings are located here.



You can also save your own edited User Presets in Armonia by changing the preset name under Preset Details (9) and then saving with Save (10). The lighthouse symbol in front of the horseshoe magnet is white for user presets you have created yourself and red for official manufacturer presets. This way you always know whether you are working with manufacturer presets or unauthorised user presets. See the example below.

Apply		Voice-Acoustic-FIR	Score	Score8-90	CUT Top	1	XO
		Voice-Acoustic-FIR	Score	Score8-60	Fullrange	1	FR
		Voice-Acoustic-FIR	Score	Score6-90 User Presets	CUT Top	1	XO
		Voice-Acoustic-FIR	Score	Score6-90	CUT Top	1	XO
		Voice-Acoustic-FIR	Score	Score6-90	Fullrange	1	FR

Caution: Never mix IIR presets with FIR presets. Only work with IIR presets or only with FIR presets. The different presets cannot be combined with each other in terms of time and phase!

If you are using a mix of VADAS and HDSP amps for a larger sound reinforcement system, you must ensure that the HDSP amplifiers have an older IIR library or a newer FIR library and then use the IIR or FIR presets in the VADAS to ensure compatibility between the platforms.

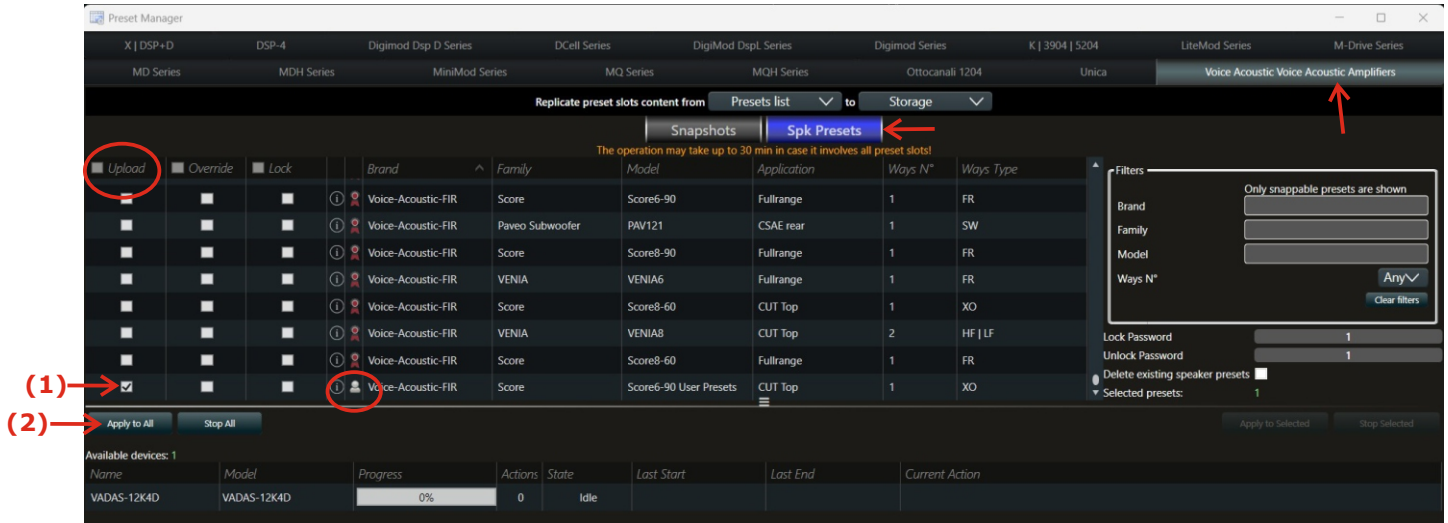
HDSP-A generation HDSP amplifiers or self-powered speakers are not FIR capable and will not be updated with an FIR library.

HDSP amplifiers or self-powered speakers of the DA/DDA generation are FIR capable and can be combined with the VADAS FIR presets after an update with an FIR library.

The HDSP-xK4 and -xK8 HDSP amplifiers and the -8K4 self-powered electronics, due for release in 2025, are factory-fitted with FIR presets and are fully compatible with the VADAS FIR presets.

Saving user presets in the DSP memory of the VADAS

In the preset manager, you can also transfer the user preset you have created to the internal DSP memory of the VADAS. This means you can also call up the preset via the touch display on the front and not just load it via the PC using Armonia. Find your user preset by scrolling through the preset list (white lighthouse symbol, see red circle). To transfer one or more user presets, tick the presets you want to transfer to the DSP under **Upload** (red circle) and press **Apply to All** (2). Wait until the process is 100% complete and State **Succeeded** is displayed.

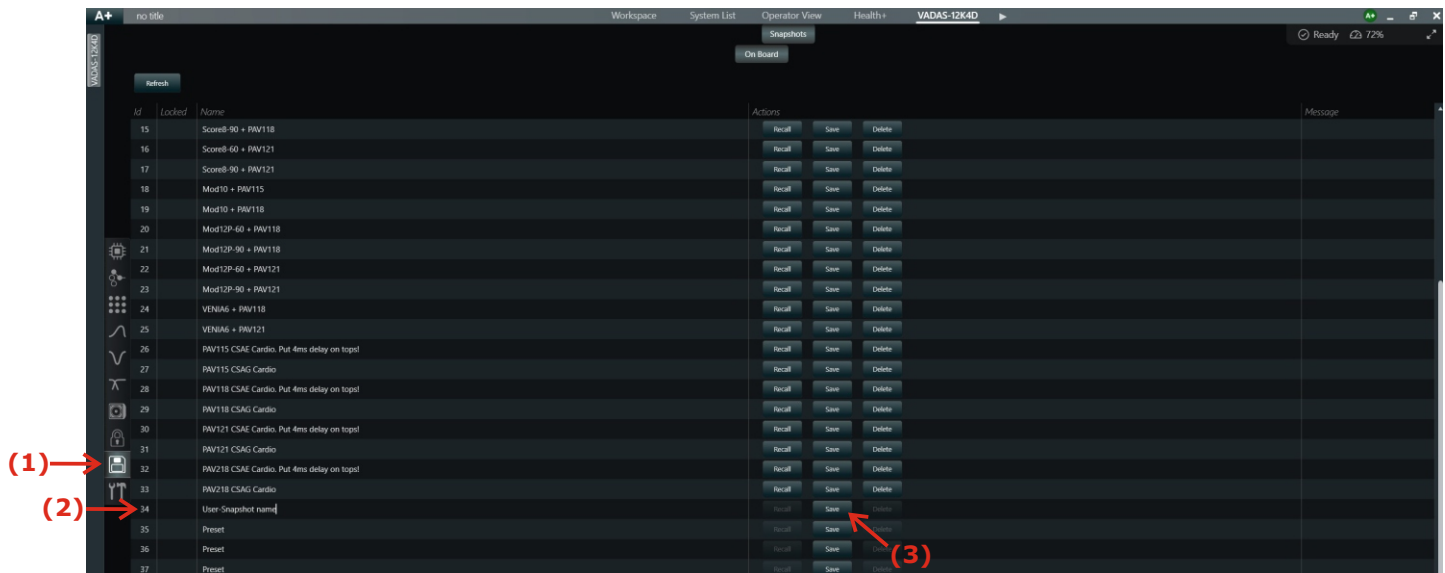


Saving snapshots in the DSP memory of the VADAS

You can store your own snapshots of your loudspeaker configurations on the VADAS amplifier. Once you have loaded individual presets on all amplifier channels using the Speaker Configuration menu item, and have set the routing and gains (see previous pages), you can create a Snapshot block from them.

To do this, click on the **Onboard Memory** menu item (1), write the desired snapshot name in a free memory location (2), in this example location 34, and press **Save** (3).

Use **Recall** to load a snapshot. Use **Delete** to delete a snapshot.

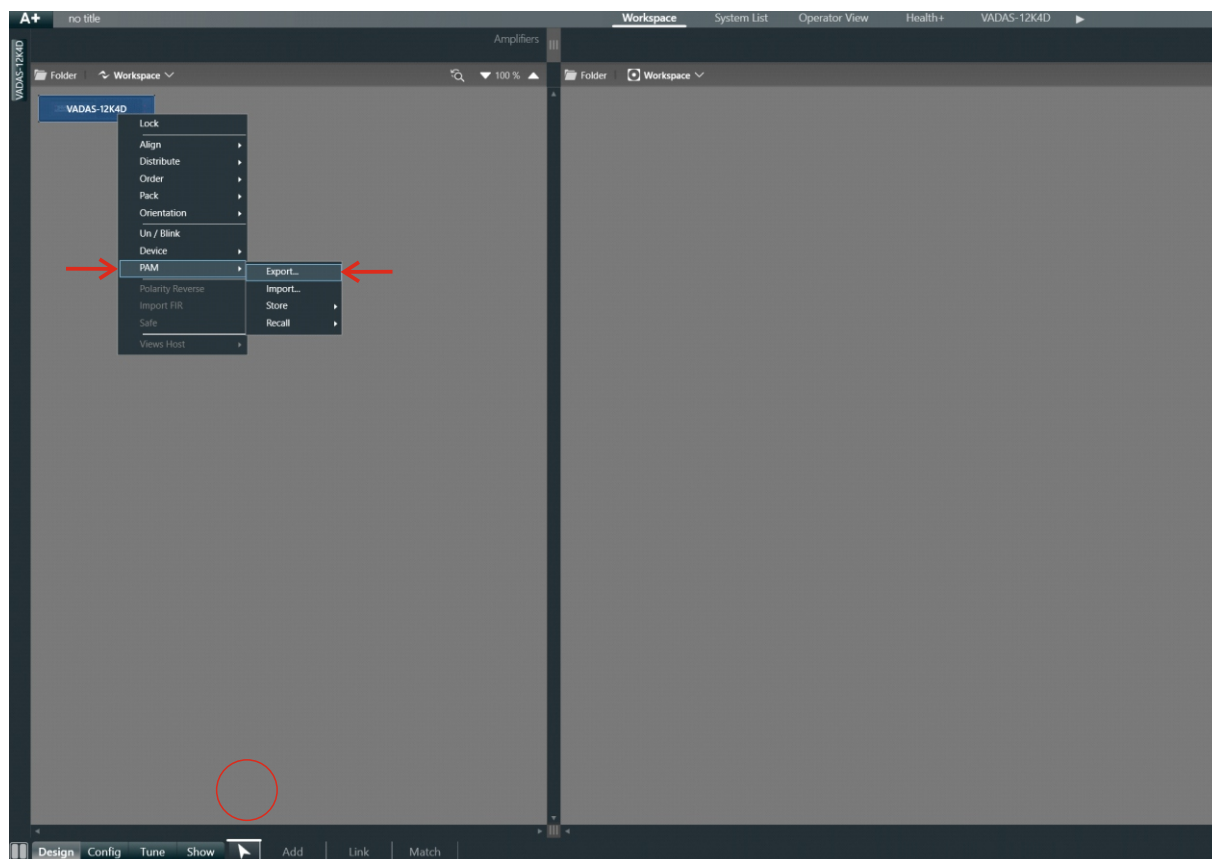


Transferring user snapshots to other VADAS amplifiers

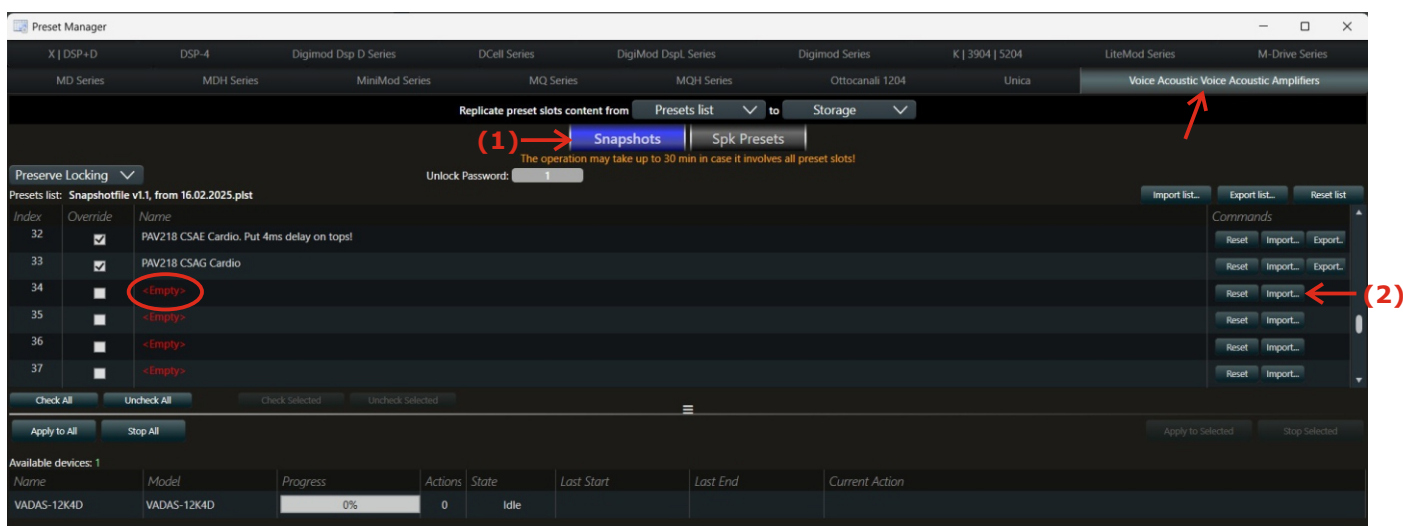
An export function allows a snapshot to be transferred from one amplifier to another.

To do this, use **Recall** in the DSP to load the snapshot you wish to export. Right-click on the VADAS amplifier in the workspace, then click on PAM and then on Export. You can now name the snapshot file with a .pam extension and save it to your PC.

Unfortunately, this export function of the snapshot is somewhat complex. There is still no export function directly from the on-board memory menu, because the snapshot has to be exported from the DSP memory and not from Armonia.



To transfer the saved .pam file containing the snapshot to another amplifier, select the amplifier and go to **Snapshots** (1) in the Preset Manager. Browse to an empty **Snapshot location** (indicated by the red circle) and import the .pam file by clicking **Import** (2). The snapshot will then be loaded into the selected location and you can change or rename the name.



Impressum

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All specifications in this manual are based on information available at the time of publishing for the features and safety guidelines of the described products. Technical specifications, measurements, weights and properties are not guaranteed.

The manufacturer reserves the right to make technical modifications according to legal regulations stipulating the continual improvement of product features. For the safe operation of the unit, this manual and all other required information must be available to all users at the time of assembly and disassembly of the unit, and during operation.

Assemble or operate the unit only after reading and understanding this manual, and keeping it at hand at all times at the site.

We are happy to receive your suggestions and proposals for the enhancement of this manual.

Please send us your ideas to the following address:

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