



ARMONÍA+ FAQ MANUAL

USING LD SYSTEMS ADA 8K4/12K4 IN ARMONÍA+

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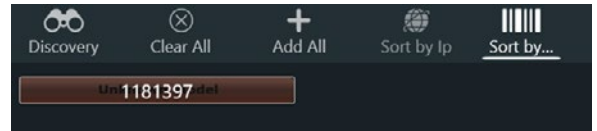
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1. CONNECTING ARMONÍA+ WITH THE AMPLIFIER

1.1 I CAN'T MATCH MY ADA TO ARMONÍA+

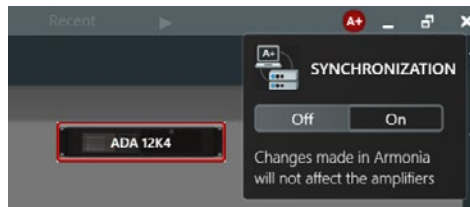
Connections between amplifiers and A+ can be established under Config -> Add. With a click on „amplifier“ (top of left workspace window) virtual and online amplifiers can be added to the workspace. Alternatively connect your online amplifier under Config → Match. If you have trouble:

- Check for matching IP ranges on your computer and the ADA. The amplifiers IP settings can be viewed under “net config”.
- Enable the network you want to use in A+ the “communication manager” within the settings.
- If the amplifier is discovered as a number in a brown box, saying “Unknown Model”, make sure to install the correct amp model from the “Marketplace”:
A+ (upper left corner) → More → Marketplace → LD Systems ADA 8K4/12K4
Back in the “Match” menu press “Clear All”, wait a few seconds and discover again. If it's still not working, restart A+.

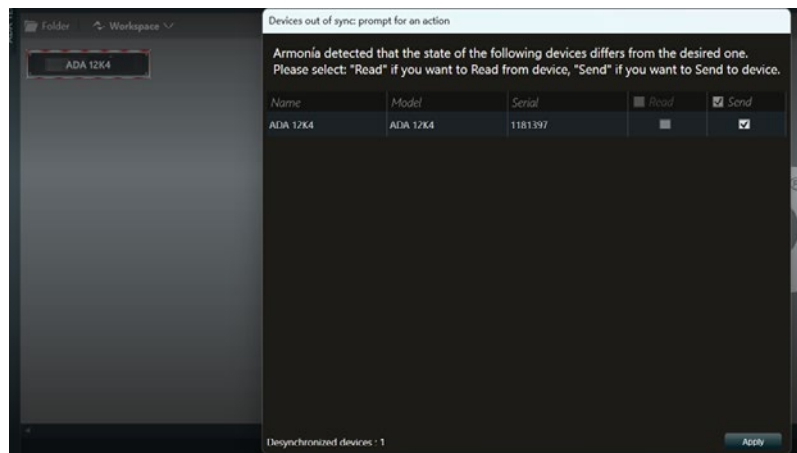


1.2 THE AMPLIFIER IS FRAMED RED

- If the amp is continuously framed red, synchronization needs to be turned on.



- If the frame is striped (white/red), you will be asked whether you want to read or send from the amplifier after changing the submenu.



1.3 HOW CAN I CONNECT MY AMPLIFIER WITH THE VIRTUAL AMPLIFIER IN THE WORKSPACE?

Instead of dragging the amplifier from the “Match” menu to the workspace, just click on it first and second select the virtual amplifier in the workspace.

2. RESETTING THE AMPLIFIER

2.1 “FLAT” – PRESET

LD-Systems provides a special Preset, called “Flat”, which can be used as basis for creating own speaker presets or to drive off-brand speakers. Note: If the Preset is “Flat” the speaker can take damage. If possible, please create a fitting preset with careful set limiters.

2.2 HOW TO FACTORY RESET / LOCK THE AMPLIFIER

Factory Reset on ADA:

Go to “Node Info”. Press “Options” on top of the display. Select “Factory Default” / “Lock LCD”.

Factory Reset via Armonía+:

Factory resetting and locking the amplifier is possible via A+. Click right on the matched amplifier and select “Lock” or got to Device → Reset.

3. PRESETS AND SNAPSHOTS

3.1 HOW DO I LOAD LD SYSTEMS PRESETS IN ARMONÍA+?

When first using A+ no LD Systems Presets will be visible in Armonía's native preset library. LD Systems Presets need to be downloaded from the Marketplace first, before they can be used under Add -> Speaker.

Download the preset library you want to use in the “Marketplace”:

A+ (upper left corner) → More → Marketplace → LD Systems Speaker's Presets

Go into the “Design” menu and “Add” the corresponding “Speaker” to the workspace.

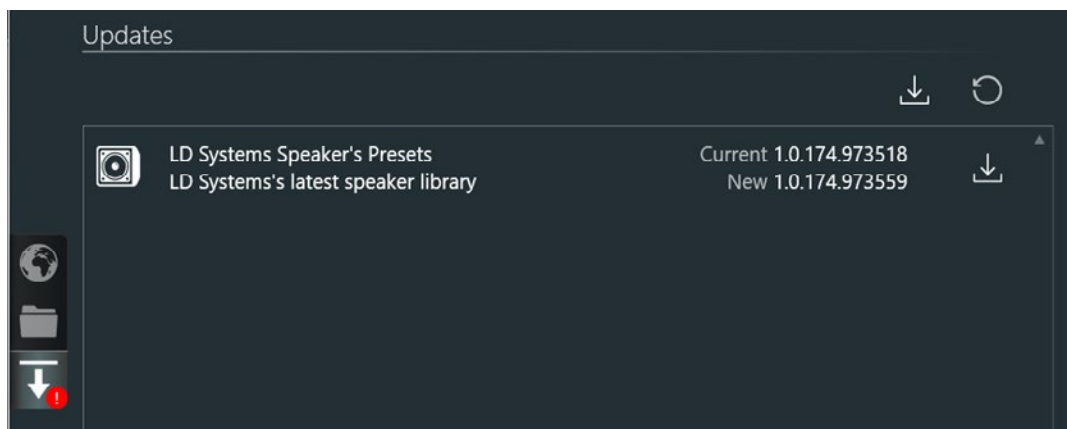
Afterwards “Link” it to an amplifier channel. You can later change the preset of your speaker model again in the “Config” menu.

3.2 HOW CAN I CHECK FOR NEW PRESETS IN ARMONÍA+?

Go to the “Marketplace”:

A+ (upper left corner) → More → Marketplace

If you have already installed the “LD Systems Speaker's Presets”, you will be informed of all new features in the “Updates” window.



3.3 HOW CAN I LOAD SPEAKERS LINKED AS PARALLEL IN ARMONÍA+?

When adding the “Speaker” via the “Design” menu, select the speaker and set the “Quantity” of speakers you want to add.

Enable the “Parallel Mode” and decide for a vertical or horizontal speaker layout. Set the number of speakers that are linked parallel and “Add” them to the workspace. All changes made to a parallel speaker will affect the other the same way!

Some LD Systems subwoofers feature presets called “Two SPK”. If those presets are available, make sure to use them instead of the parallel-linking function.

3.4 CAN I LOAD PRESETS OF OTHER MANUFACTURERS ONTO MY LD SYSTEMS AMPLIFIER?

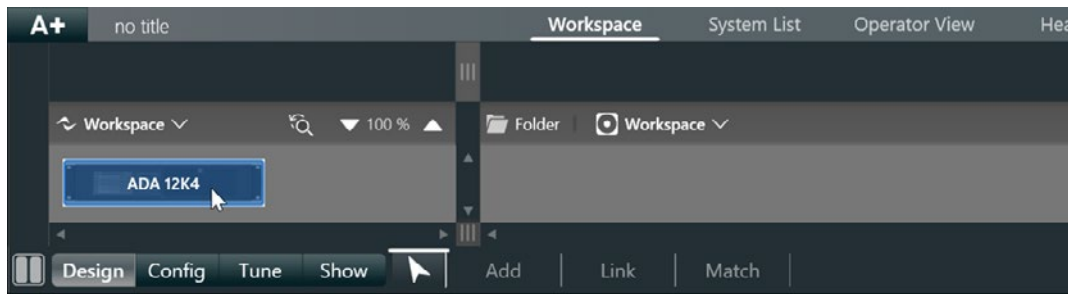
It is not possible to load presets onto the ADA that are not meant for this amplifier. ADA amplifiers only support the manufacturers presets that can be found in the LD Systems Speaker's Library. Likewise, LD Systems presets cannot be loaded onto amplifiers of other manufacturers (excluding Powersoft). Of course, it is possible to create your own presets on the ADA amplifier.

3.5 CAN I LOAD LD SYSTEMS PRESETS ONTO POWERSOFT AMPLIFIERS?

The LD Systems Speaker's Library can be loaded to Powersoft's own amplifiers, as long as the specifications of amplifier and speaker match.

3.6 HOW CAN I CREATE OWN SPEAKER PRESETS?

Add your ADA to the workspace. Then select the mouse symbol in the task bar or use the shortcut (key, to the left of the number "1"). Double clicking the amplifier opens the amplifiers menu.



- At your left you can navigate through the menu. Go to the "Speaker Configuration" window. Select the "physical output" symbols of the channels used for the preset and select "Split/Reset", to start with all flat settings. By selecting "Join" you can also create multiway presets.
- With clicking the pen symbol, you can write down all the information about your system. After applying your changes, speaker DSP settings can be configured in the "Ways" layer. Equalization and crossovers can be set, using IIR and FIR filters. Further equalization can be realized within the "Speaker EQ". "Ways" also provides the limiter settings (top menu). To help you create those properly, Powersoft provides [detailed information](#) on how to use their limiters correctly.
- When the DSP is set, the speaker preset can be saved in the "Speaker Configuration" menu. Presets, created in the ADA's amplifier menu, can only be used on amplifiers of the ADA series. Using a different amplifier (e.g. Powersoft) will enable you to create and load presets developed for only those amplifiers.

3.7 HOW CAN I CREATE SNAPSHOTS?

When you are satisfied with the settings of your amplifier, use the mouse symbol in the task bar or use the shortcut (key, to the left of the number "1"). Right click on one or more amplifiers and select "PAM" → "Export". Depending on the number of amplifiers, A+ either creates a "entity preset file" (.pam) or a "preset list file" (.plst). You can import a snapshot the same way.

4. UPDATING AMPLIFIERS PRESET AND SNAPSHOT LIBRARIES

4.1 HOW CAN I UPDATE THE SNAPSHOT LIBRARY ON MY AMPLIFIER?

Create a snapshot(-list) as explained above and go to the "Preset Manager":

A+ (upper left corner) → More → Preset Manager

Select your amplifier model out of the list on the top and select "Snapshots". Snapshots that were previously created can be imported as a list (if more than one amplifier was previously exported to this list) or imported into a specific snapshot slot. If you want to lock the snapshots you can switch from "Preserve Locking" to "Lock" and set a password.

Toggle "Override" for the slots that should be updated on the amplifier, select the correct device out of the "Available devices" list and press "Apply [to Selected]". It is possible to update multiple amplifiers at the same time.

There is a maximum number of 50 snapshots that can be stored on the amplifier.

4.2 HOW CAN I UPDATE THE PRESET LIBRARY ON MY AMPLIFIER?

To update the preset library, go to the "Marketplace" and install the newest preset version:

A+ (upper left corner) → More → Marketplace

The "Marketplace" will automatically inform you, if there is anything new.

Match your amplifier and go to the "Preset Manager":

A+ → More → Preset Manager

Select your amplifier model out of the list on the top and select "Spk Presets". Toggle "Upload" for all presets you want to load onto your amp. If there has been a previous library, also toggle "Override", to make sure the upload doesn't fail. Now select the amplifier under "Available devices" and press "Apply to Selected". It is possible to update multiple amplifiers at the same time.

5. ARMONÍA+ AND EXTERNAL FEATURES

5.1 CAN I TUNE MY SYSTEM INTERACTIVELY (USING SMAART)?

It is possible to load measurement curves into A+. It is also feasible to control your Smaart within A+. To connect Smaart to A+, check your API settings in Smaart and make sure to use corresponding settings under "INTERACTIVE TUNING" in the A+ preferences.

To view the A+ tuning page, open any EQ (e.g. of an Array Group) and press the little spectrum symbol in the lower left corner. Smart measurements can be captured, or files can be imported from here.



To show the curves, enable magnitude and phase by clicking on the icons. The "Advanced EQ" layer gives plenty of options to now tune your system interactively, using the captured, imported or calculated curves.

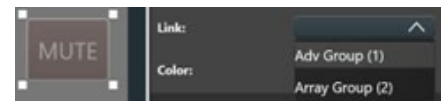


5.2 CAN I CONTROL ARMONÍA+ WITH A PORTABLE DEVICE?

It is possible to control A+ with portable devices.

Touring Skin:

In the "Touring" skin functions, such as EQ, mute, gain, delay, polarity, metering, etc., can be added. Those functions can be linked to control "AdvGroups" or "ArrayGroups" in the workspace. When the "View" is ready, use the lock to activate the operator view.



To access the "Operatorview" go to the settings and enable "OperatorView web server". The IP addresses shown below lead directly to the online operator view.

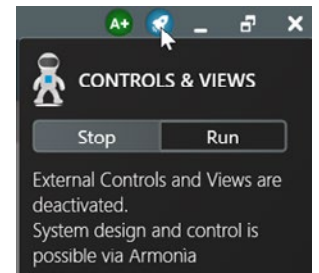
Install Skin:

In the "Install" skin it is necessary to add "Zones" and "Controls" in the "Design" menu first (many controls cannot be used with the ADA models). To control the system via the "Web View", it is necessary to also add a "PC Views Host". Clicking on it leads you to the download path for this add-on.

The status of the "Views Host" can be monitored via:

A+ (upper left corner) → More → Views Host

In the "Views Designer", that can be found in the upper bar, zones and controls for the external web or app controlling can be added. If the "View" is ready, "run" the "Controls & Views", found by clicking the rocket symbol in the upper right corner. Download the "Syscontrol App" from the App Store and scan the QR-Code in the "App View" or connect via the "Views Host" IP address for the "Web View".



6. LD SYSTEMS SPEAKER PRESETS

6.1 HOW TO UNDERSTAND HEIGHT, DISTANCE AND CURVING IN THE MAILA PRESETS?

All information about height, distance and curving, that can be found in the preset and "Manufacturer" description, apply to the following parameters:

- Height:
 - Flown: rigging height including Easymount
 - Ground: lower edge of SAT array
- Distance (that is covered by the arrays radiation):
 - Minimum (fixed): 3 m bzw. 2.5 m (for d_max = 5m)
 - Maximum (changeable): 5 – 35 m (depending on number of SATs and Pickup Point selection)
- Curving: always from top to bottom SAT

6.2 IS THERE SOME SORT OF AUTO-EQ AS IN THE MAILA ACTIVE VERSION?

The main functions of MAILA Active's equalizing were implemented in the MAILA Passive presets. The following notes refer to a standing crowd.

• Default Preset:

The default equalizing, which is loaded with the preset, always refers to the following **bottom height** of the SAT array:

- Flown with SatX or Column: 3 m
- Ground stacked with Sat X: 1.5 m
- Ground stacked with Column: 2 m

The proposed curving leads to optimal results, when the distance is 2/3 of the maximum working range for the specific array constellation. All other distances mentioned in the preset and "Manufacturer" description, can be used without hesitation, since the frequency response deviates from the target frequency response by no more than ± 0.5 dB.

- **“Manufacturer” Equalizing:**

The “Manufacturer” EQ (MEQ) can be found under “Config” → “Preset”. With the MEQ, equalizations for different height settings can be recalled, leading to a good mapping of most Auto EQ functions. Additionally, the user can find all necessary information about the correct Pickup-Point in this menu.

Bug: When a speaker preset gets changed, the MEQ sometimes shows “mismatch”. After a reselection of the mismatching speaker, the settings will be shown again.

- **Sitting Crowd:**

MAILA Presets by standard only refer to standing applications. For sitting applications use the following work arounds:

- Flown: rig the system 0.5 m lower than the preset recommends
- Groundstacked: use only one MAILA Sub 15 for column/pole or tilt the MAILA Sub 2x15 to lying application.

6.3 WINK LED

After matching an online amplifier and linking a “Wink LED” compatible preset, the option “Un/Blink” will appear, when right clicking the preset with the mouse symbol selected (symbol in taskbar or key, to the left of the number “1”). Selecting this function will light up the LED, integrated in the speaker. After a certain time, the function will “Unblink” itself.

6.4 WHAT IS THE MEANING OF “TWO SPK” PRESETS?

Depending on the speaker model, LD Systems uses the “True Power Limiter”, which allows the manufacturer to limit the heating of the voice coil even more precisely. When linking two speakers to one output, the power consumed from the ADA doubles itself, but the power limit for the “True Power Limit” stays the same. This causes the limiter to react earlier than necessary. Since lower frequencies consume the most power, this behaviour shows most in subwoofers. That’s why LD Systems provides special presets for the linking of two subwoofers.

WARNING: Only use with dedicated application, otherwise the speaker might take damage!

6.5 WHICH LD SYSTEMS SPEAKERS ARE SUPPORTED BY THE ADA?

The ADA supports Stinger G3 and most PA speaker series, that are produced after 2025.

7. FURTHER INFORMATION

7.1 WHERE CAN I FIND FURTHER INFORMATION ABOUT ARMONÍA+?

Powersoft provides an [e-learning platform](#), where users can train there Powersoft and Armonia+ skills. Furthermore they provide a lot of tutorials that can be viewed on [YouTube](#).