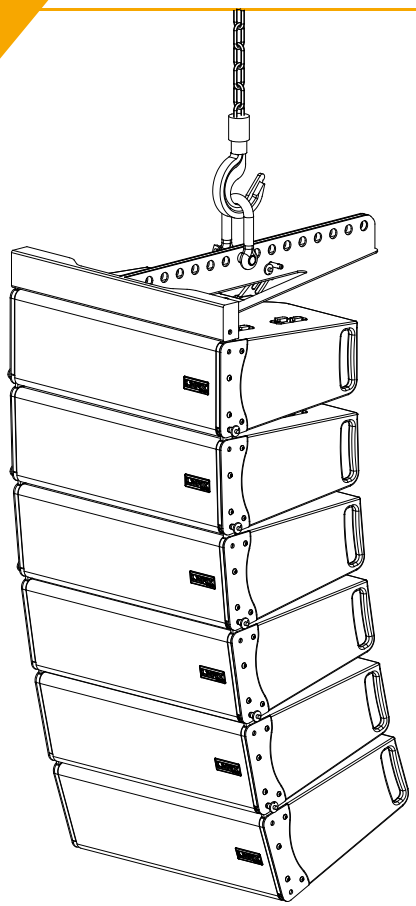
LAIA-26/26P

RIGGING MANUAL



LYNX pro-audio

V.26.10

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WELCOME

Before working with the LAIA series we recommend that you read this manual. In its pages you will find instructions for use, programming examples and practical advice that will be of great help.

For the maximum optimization of any sound system a first class digital processor with different processing options is required. This LAIA series become a working tool of great value, providing the user with the best solutions in the market with the highest level of accuracy and a host of features for the professional.

We hope that as a user you will be completely satisfied. We are sure that the LAIA series will meet your expectations and make it easier for you to get the most out of your system.

IMPORTANT SAFETY INSTRUCTIONS

Before starting to use this device, please read this instruction manual carefully.
Keep these instructions in the place where the equipment will be used and with easy access to them.



• Electrical appliance

The exclamation mark within a triangle identifies the presence of electricity. Use the system carefully without wet hands or feet. Avoid installing the speaker in wet or excesivelly humid places. Do not place material that contains liquid on or near the unit. Avoid dripping or splashing water or any liquid over the unit. Regularly check the condition of the cables and make sure these are not being walked on or pinched. Connect the speaker to bipolar, earthed mains. The mains plug must be connected to the appropriate protection (fuse or breaker). Connection to any other type of mains could result in an electrical shock and violate local electrical codes.
CAUTION: DO NOT CONNECT OR DISCONNECT AC POWER CONNECTORS UNDER LOAD.



• Heavy equipment

Apply back protection when using the system. Avoid loading and unloading at heights.



• Electrical shock risk

The diagonal mark within a triangle identifies the presence of dangerous voltage.
Do not open or manipulate the inside of the box. These parts are not to be adjusted by the user. For maintenance and/or repair please go to an authorized service centre. In order to reduce the risk of electric shock, disconnect from AC before pluging or unplugging Audio signal cables. Reconnect to AC only if all signal connections are made and secured. Never manipulate the ground type plug provided.
The AC mains plugs should always remain accessible for operation.
Unplug the loudspeaker during storms or when it's being used for a long time.



• Hearing damage risk

These systems can reproduce large quantities of sound pressure which can damage hearing. Take precautions if you are going to be near them for extended amounts of time and do not get too close.



• Hanging / Flying

Do not hang the cabinets from the handles or from any other part other than the designated hanging point. When flying this system please observe the technical and "Rainbow" software data carefully. Never exceed the maximum safe working loads or ignore the instructions included within this manual. Use only flying accessories provided by Lynx Pro Audio S.L. Rigging must be always carried out by professionals.



• Delicate Material

Please ensure no foreign object or water enters the speaker. Clean the unit only with dry cloths. Do not use solvents.



• Overheating / Fire risk

To reduce the risk of speaker's over heating, avoid direct contact with sunlight. Avoid placing the unit close to heat inducing objects such as radiators. Do not cover the equipment in use and do not block any ventilation openings. Do not expose to open flames, such as lighted candles, close or on top of the unit.



• Electromagnetic and interference emissions

Avoid placing objects which through electromagnetic waves can damage the unit, such as mobile phones, lap tops, magnetic strip cards etc.
This system complies with normatives EN 55103-1 (1)
EN 55103-2 (2)
(1) This device may not cause harmful interferences.
(2) This device may receive interference including interferences that may cause undesired working.



•IMPORTANT NOTE

This equipment must be used in accordance with these instructions and by trained professional personnel only. This equipment should not be used in places with extreme tropical climates. Don't expose this device to extreme humidity and or temperature values.

1. INTRODUCTION

This manual describes the recommended flying and stacking procedures for the **LAIA-26** and **LAIA-26P** line array systems, as well as the LAIA-18S subwoofer. It provides the necessary technical guidelines and safety instructions for the correct installation, suspension, transportation, and operation of the system using exclusively original Lynx Pro Audio rigging accessories.

The **LAIA-26, LAIA-26P, and LAIA-18S subwoofer** incorporate an integrated high-strength rigging system designed for fast, accurate, and safe deployment in both touring and permanent installation applications. The integrated hardware enables precise splay angle adjustments between cabinets, ensuring structural reliability and maximum operational efficiency during assembly.

This document details the flying and ground-stacking configurations, mechanical load limits, safety guidelines, and proper use of compatible rigging hardware, along with procedures for preventive inspection and system maintenance.

All rigging operations must be performed by qualified technical personnel in compliance with applicable local safety regulations. The use of non-approved accessories or failure to follow the procedures outlined in this manual compromises the structural integrity of the installation.

For optimal acoustic precision, thermal stability, and dynamic performance, LAIA systems should be operated using Lynx Pro Audio GTX power amplifiers and LUKA processors with dedicated factory presets. The LAIA-26P can be configured in either passive mode (single amplifier channel) or bi-amplified mode (two amplifier channels), providing maximum flexibility for system design.

INSTALLATION GUIDE

- **Indoor use only**

We recommend using this appliance indoors only. Moisture can damage the appliance and cause a fire.

- **Power cord safety**

  - Avoid placing the speaker, cables, or any objects on the power cord. Ensure the cord is free from pinches or damage.
  - The power supply circuit must be equipped with a fuse or circuit breaker for overload protection, and an RCD for ground fault protection.

- **Power disconnection**

To disconnect the device from the power source, the power plug must be removed from the power outlet. The appliance should be positioned to allow easy access to the power outlet without obstruction. This will allow you to quickly disconnect the power plug in an emergency.

- **Mounting options**

LAIA speaker can be installed on the floor, on a stage, on a subwoofer, on a tripod, wall-mounted, or mounted on a 35mm diameter coupling tube attached to a subwoofer.

- **Safety checks before installaion**

Give your speaker a safety check before mounting it. Make sure the stand, brackets, and anything else it attaches to are in good shape and all the pieces are there. Damaged or missing parts can cause the speaker to become unstable and fall.

- **Floor, tripod, or coupling tube installation**

For floor, tripod, or coupling tube installation, ensure the surface below is flat and stable.

- **Overhead installation**

  - Strong Support: Choose mounting hardware or suspension systems that are specifically designed to handle the weight and size of your speakers.
  - Secure Suspension: If using a tripod or hanging system, make sure the speaker is well-balanced and securely fastened to prevent it from falling, tipping over, or being accidentally bumped.
  - Double-Check Fasteners: Before letting the music flow, take a moment to confirm that all fasteners at the suspension points are tightened properly.

- **Incorrect installation**

Improper assembly or the use of unsuitable mounting equipment can result in an unstable and dangerous installation that could cause injury.

- **Seek professional assistance**

If in doubt, consult a professional to install the equipment. Ensure that national safety regulations for the installation and use of the speaker are followed.

- **Overhead installation safety**

Refer to the speaker's manual for safe overhead installation instructions, which likely recommend two people.

- **Avoid extrem weather conditions**

Do not install the speaker in direct sunlight, rain, or any other liquids. The speaker is not waterproof. If installed outdoors, protect it from the elements.

USER GUIDE

• This cabinet creates a magnetic field that can interfere with other electronic devices like TVs, phones, and radios nearby. The same can happen if the speaker is too close to other appliances. If you notice any problems, turn off the speaker and move it away from potentially affected devices.

• The rubber feet of the appliance may stain the surface on which it rests. If necessary, use an appropriate underlay between the feet of the appliance and the floor.

• This appliance should not be used by persons (including children) with reduced physical, sensory or mental abilities or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or have received instructions from that person on how to use the appliance.

• Never leave this appliance unattended when in use.

• In case of malfunction, stop using the appliance immediately. Do not attempt to repair it yourself.

Contact your dealer or an authorized repairer.

• For best performance, avoid using the appliance in the following conditions:

- **Direct sunlight, dusty or dirty areas:** These can damage the appliance or shorten its lifespan.
- **Strong vibrations or bumps**: This can disrupt the appliance's operation and potentially cause damage.
- **Extreme temperatures (below 2°C or above 45°C):** This can affect the appliance's performance and efficiency.
- **Very dry or humid environments (ideally keep between 35% and 80% humidity):** This can impact the appliance's function or shorten its lifespan.

• Never use the appliance near flames, flammable or explosive materials, or hot surfaces. Otherwise, you risk causing a fire.

• It is important to use the supplied mains power cable.

• Before switching on, make sure that the voltage and frequency of the power supply correspond to the power requirements of the appliance, as indicated in this manual.

• Never cut or tamper with the power cord or plug. If a power cord is provided with an earthing wire, this is mandatory to ensure safe operation! Risk of fatal electric shock!

• Always hold the power cord by the plug. Do not pull on the cord itself and never touch the power cord with wet hands as this could cause a short circuit or electric shock.

• Do not stick stickers, decals or other similar objects on this instrument. You could damage the finish of the instrument by removing them.

• To ensure safe operation, avoid placing liquids or objects near the appliance. If a spill happens, unplug it quickly and contact after-sales service.

• Before a thunderstorm or lightning storm, unplug the appliance from the power outlet for safety.

Maintenance

- Never attempt to disassemble, repair, or modify the appliance yourself. Doing so will void the warranty and could result in damage or malfunction. Contact an authorized service center for repair.

- Disconnect the appliance from the power supply before any maintenance or cleaning.

- If the cable or external flexible cord of this appliance is damaged, it must be replaced with a cable or cord specifically designed for this purpose and available from the manufacturer or its authorized service agent.

- Never immerse the appliance in water or any other liquid. Wipe it only with a slightly damp cloth.

Power supply

Connect the power cord to the IEC socket on the back of the speaker. Make sure the plug is fully inserted into the IEC socket of the speaker. Make sure the power switch is OFF before connecting the cable plug to the power source and then connect the power cable to the local power outlet.

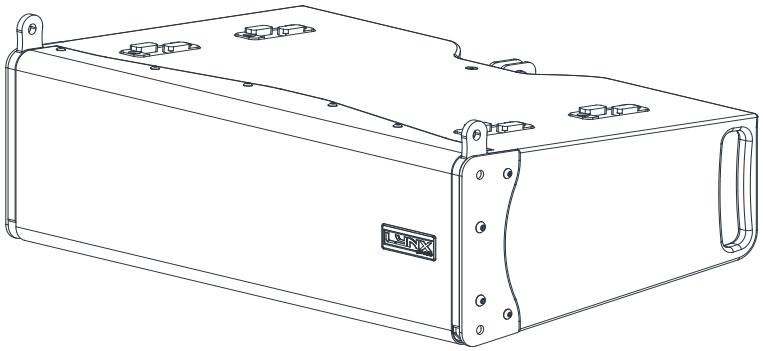
The correct procedure for turning on and off can help prevent unexpected sounds from being produced by the system (cracks, clicks and small muffled noises). Always follow the rule that the speakers are “last on and the first ones off”. If a LAIA cabinet is driven from the output of another LAIA cabinet, it must be on after the unit providing the signal and off before the unit providing the signal.

CABLE (EU)	CABLE (US)	(PIN)	INTERNATIONAL
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Yellow/Green	Earth	⏚

2. LAIA-26: RIGGING & HARDWARE GUIDE

LAIA-26 RIGGING HARDWARE

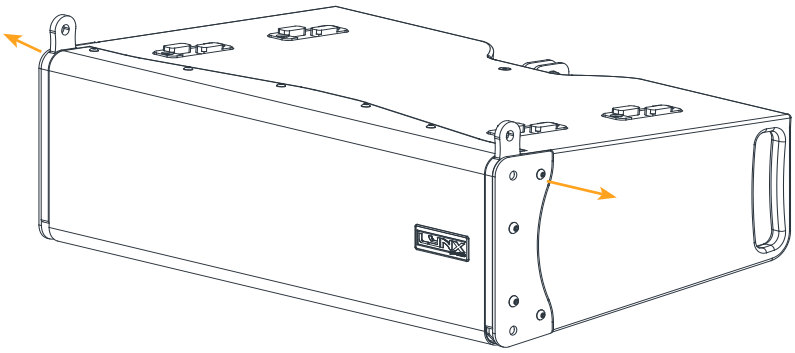
• Each LAIA-26 cabinet has two ergonomic handles with firm internal grip to facilitate transport, placement and loading of the cabinets.



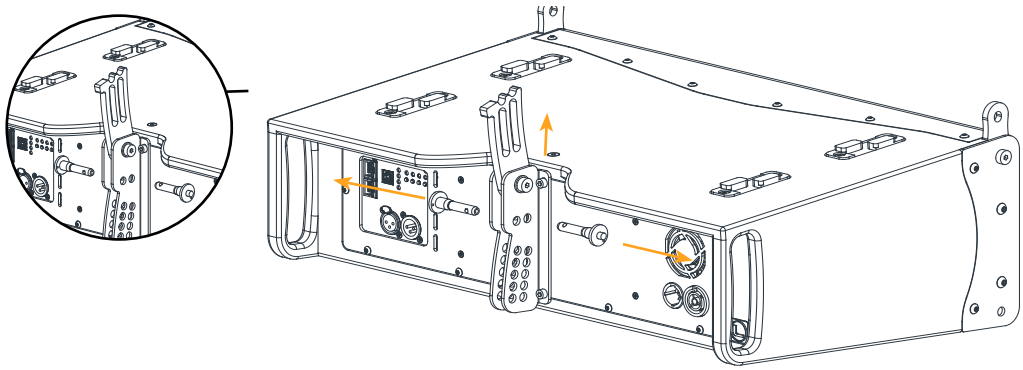
Two handles are placed at the rear of the cabinet.

LAIA-26 RIGGING MANUAL

• Remove pins from the front.



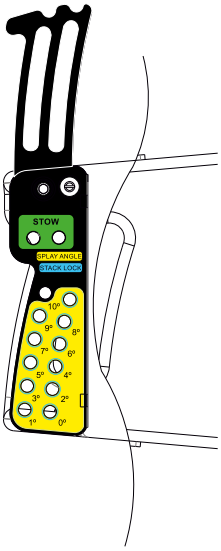
• Remove pins from the centre/rear. The rear link must be raised mannually.



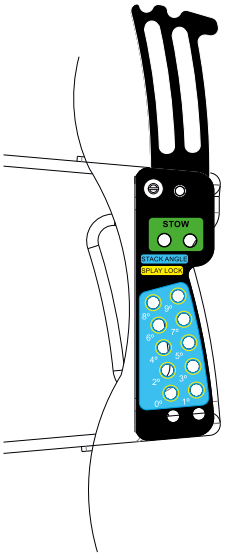
LAIA-26: RIGGING MANUAL

The 3 point rigging system (2 front retractive links + 1 rear point) enables up to 16 LAIA-26 cabinets to be flown in a single array. Array angulation is configured on the back of the cabinet using the splay/stack hardware located at the centre of the rear panel. Different splay angles are easily set up available with optional splay angles, from between 0° to 10° with 1° step increments to create the desired curve.

This angulation system has two sides,showing the yellow and blue colours.



The Yellow side indicates splay angles for a line array in flown configuration.



The Blue side allows to set up the stack mode.

• The first thing to do is to choose the angle. Then, you must lock it.

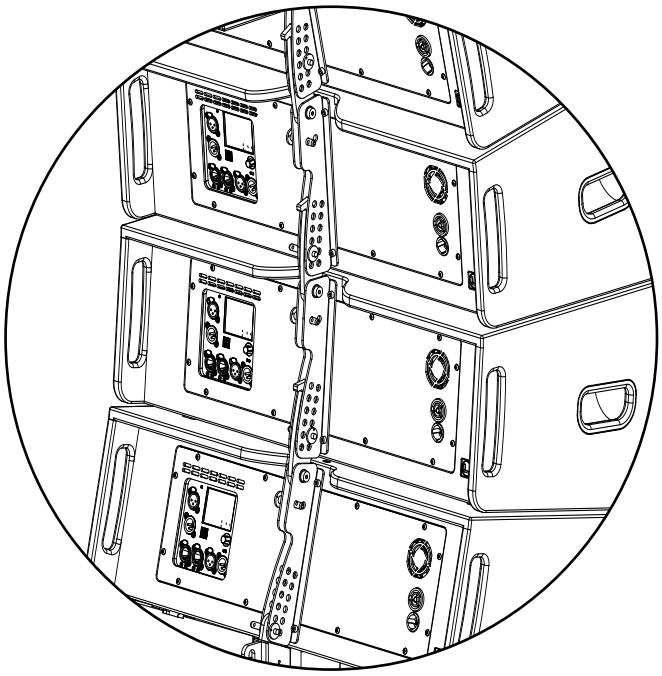


- **SPLAY ANGLES** (flown cabinets)

Use the yellow part of the rigging system.

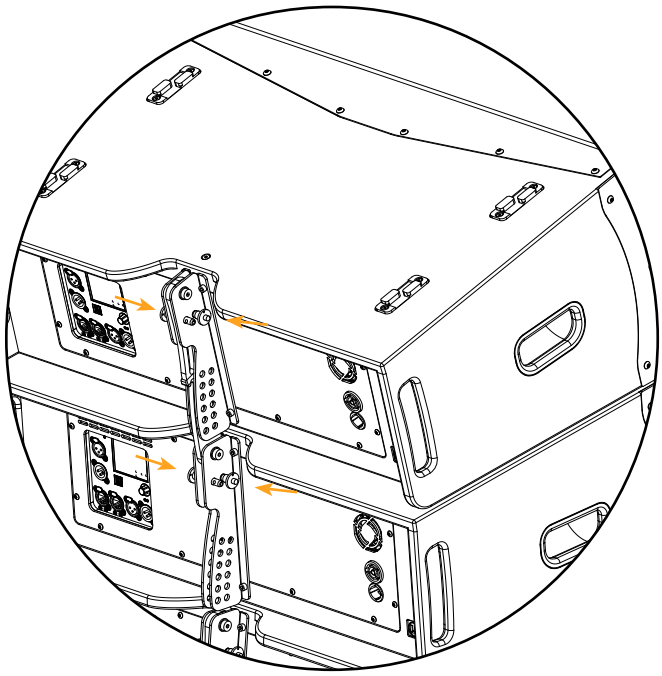
Choose your splay angle and then insert the pin. This can be done before flying the speakers. Ensure that the pin is correctly inserted. When lifting, the angles will place themselves. Then, on the blue side of the rigging system, insert another pin through the yellow circle (splay lock) with the same chosen angle, to lock the angle. For further information about

This rigging system allows to set up the cabinets in retracted position.



• When the cabinets are completely stacked you can prepare the set up without lifting any cabinet. Just choose the splays angles and insert the pins. Then lift the array slowly and when the array takes its shape just lock each one of the cabinets.

• While you are lifting the array the rigging system will apply the angulation to each cabinet and then you only need to lock it for security.



- STACK ANGLES

Use the blue part of the rigging system.

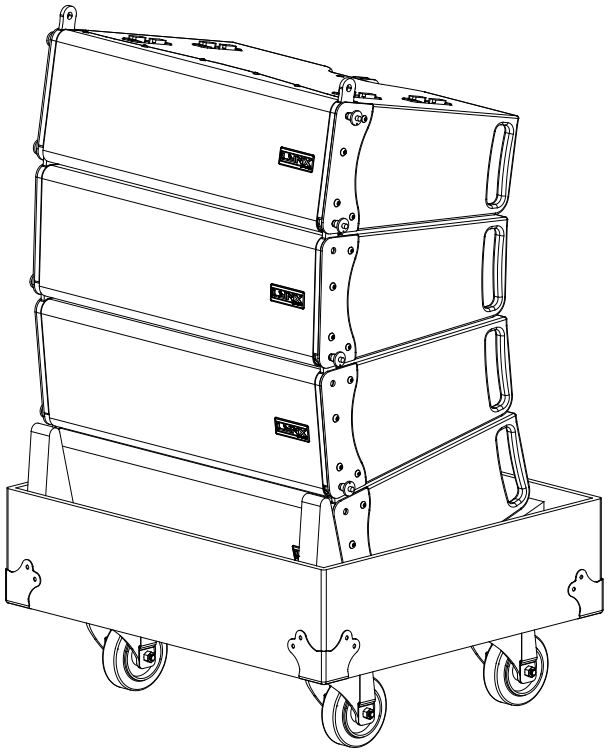
Choose your stack angle and then insert the pin. Ensure that the pin is correctly inserted. Then, on the other side of the rigging system, insert another pin through the blue circle with the same chosen angle.



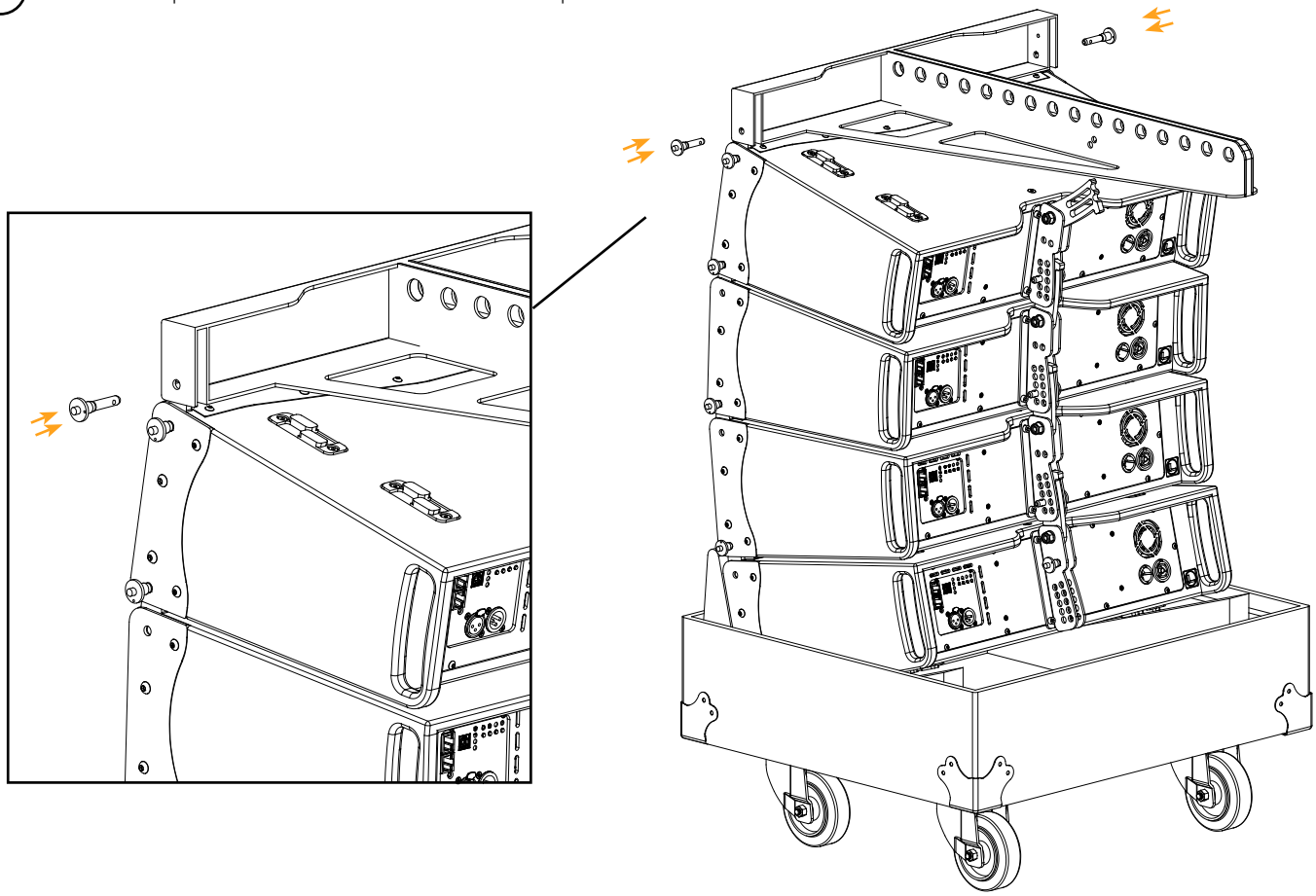
How to use the flying frame on LAIA-26

Refer to the LAIA Series Rigging Tutorial for a technical demonstration of the rigging process.

1. Remove the lid from the flight case

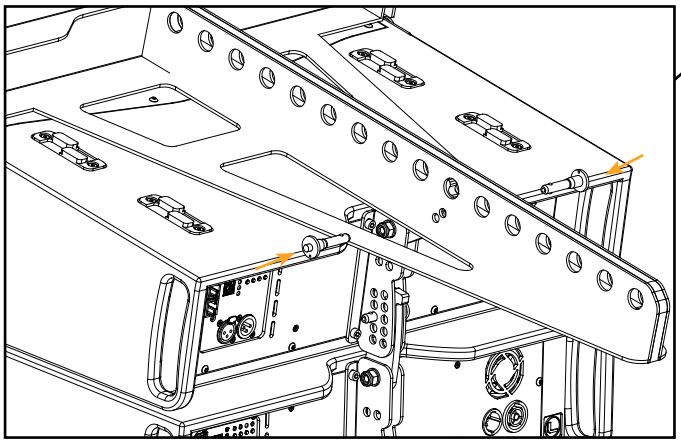


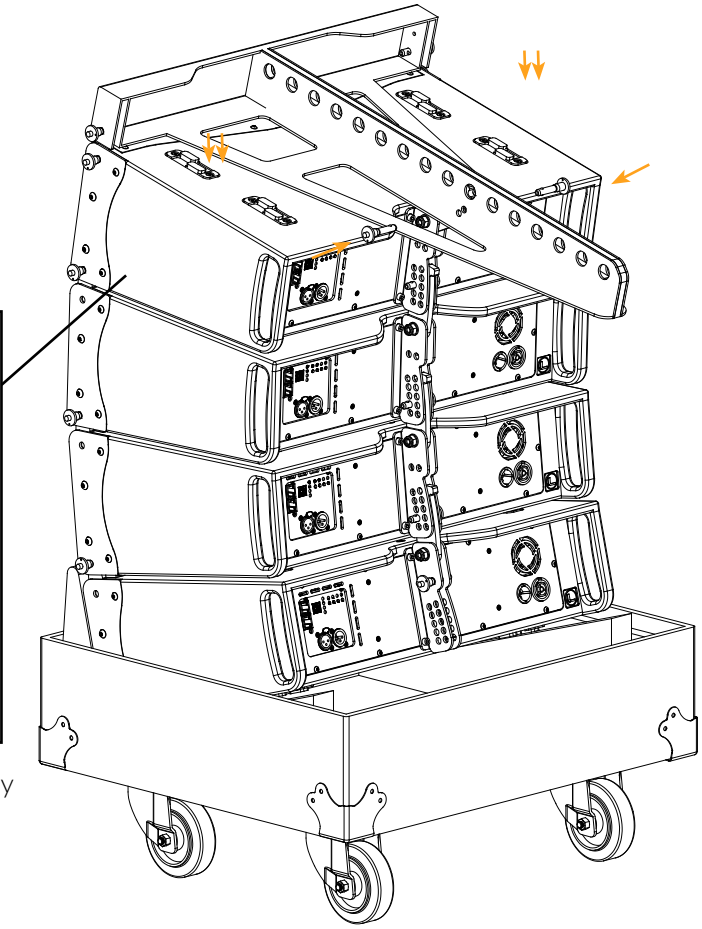
2. Proceed to place the SV-LAIA26 and insert the pins.



3 Place SV-LAIA26 and introduce security pins.
Bring it closer to the cabinet.

Choose your splay angle and then insert the pin. Ensure that the pin is correctly inserted. Then, on the other side of the rigging system, insert another pin through the yellow circle (splay lock) with the same chosen angle.



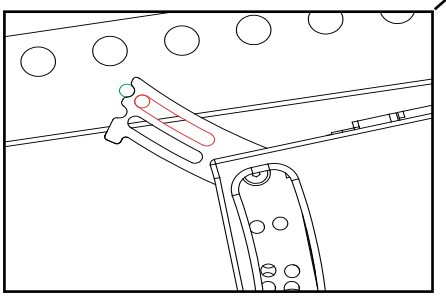


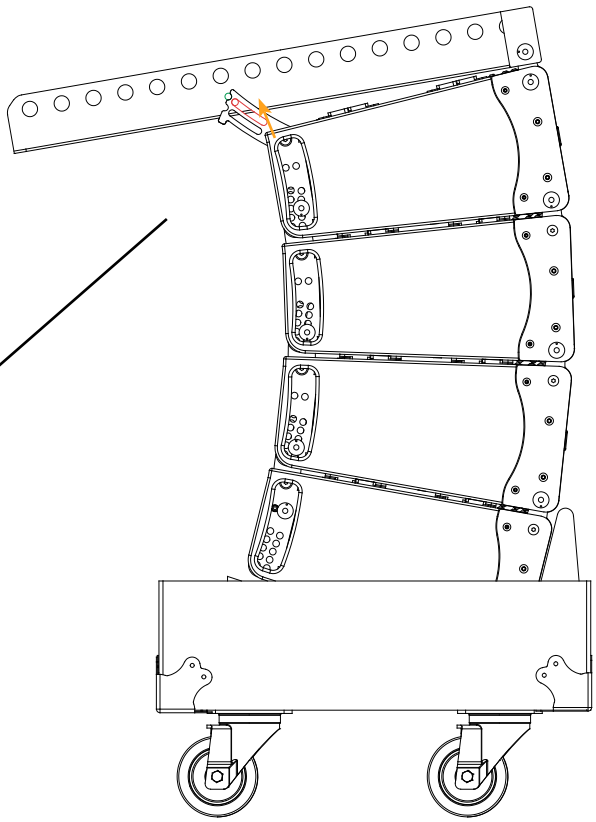
NOTE: Ensure all pins on all cabinets are inserted correctly and fully in their corresponding holes.

4 Take the SV-LAIA26 flying frame attachment with the rear link facing upwards, and carefully place it on top of the LAIA-26.

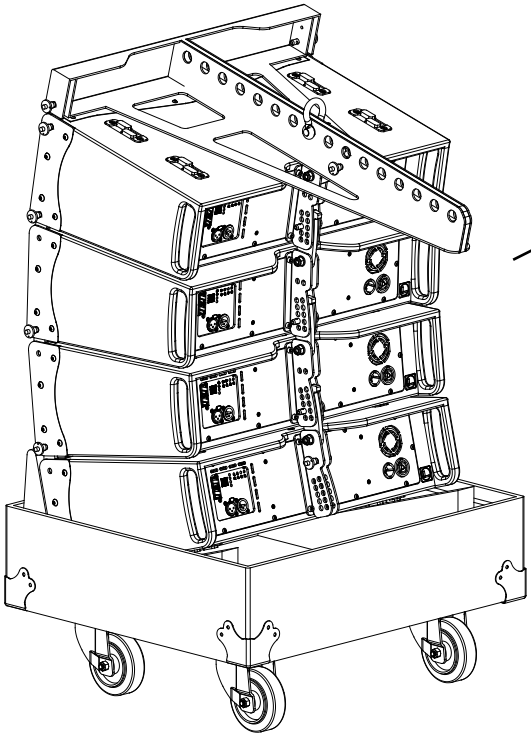
The part of the rear link marked in red is the one that must be attached to the flying frame. Insert the pin in the hole marked in red, and the security pin in the green marked hole.

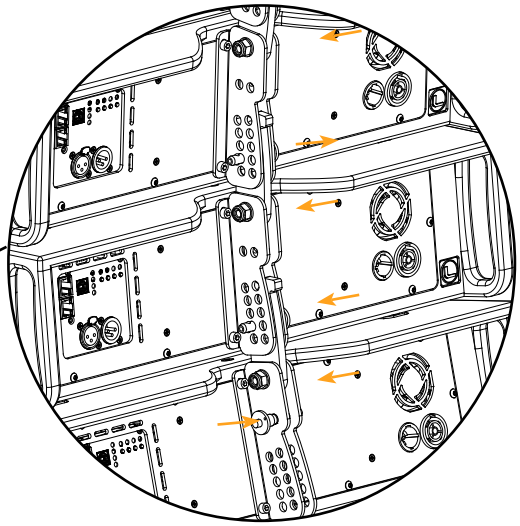
Then make sure that all the pins on the rear links are correctly engaged until the flywheel frame is fixed to the LAIA-26 housing.





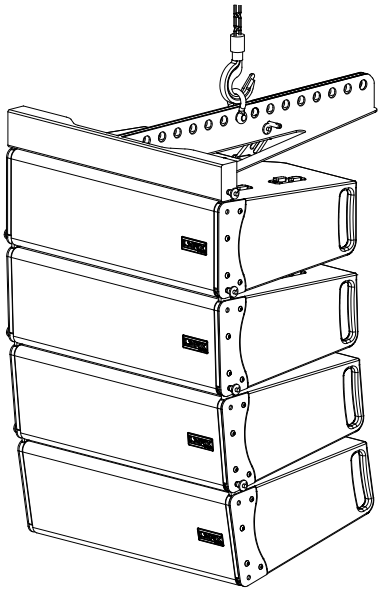
5 After rising the array always introduce security pins.



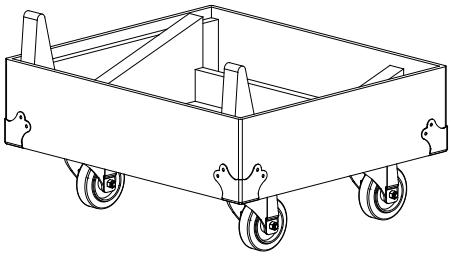


• Insert the safety pins in the lower position and the angulation pins in the upper position, ensuring they are correctly aligned with their designated holes. Confirm that the cabinets are securely fastened via the front links and the rear rigging point.

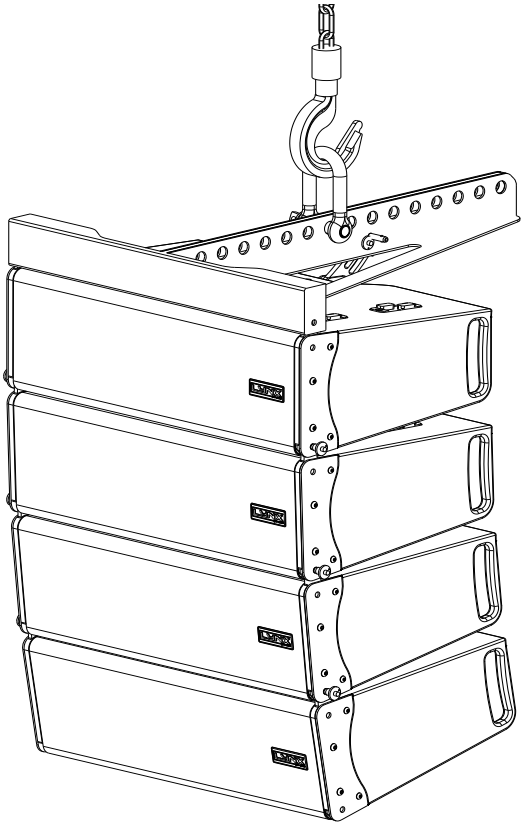
6 Rise the array

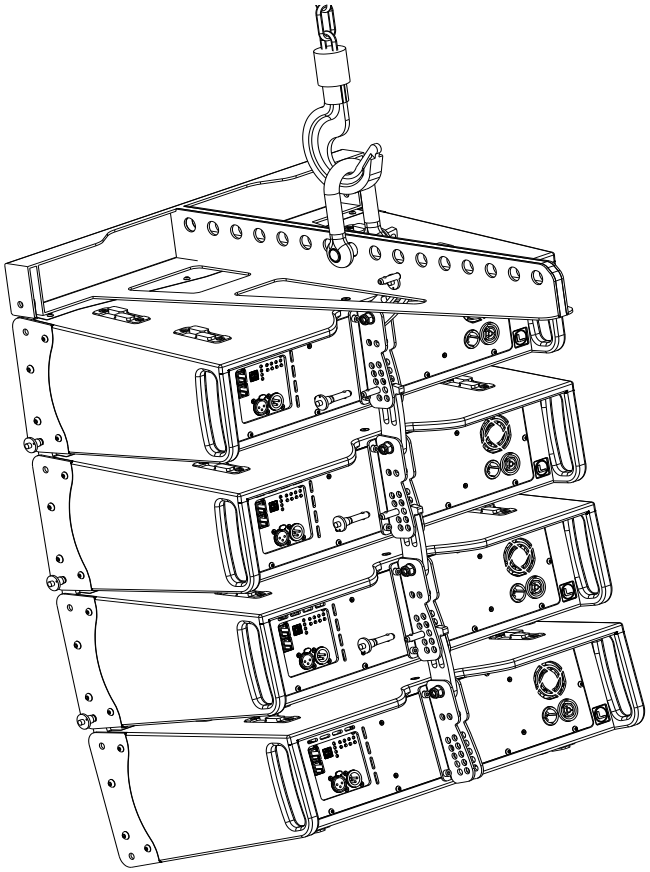


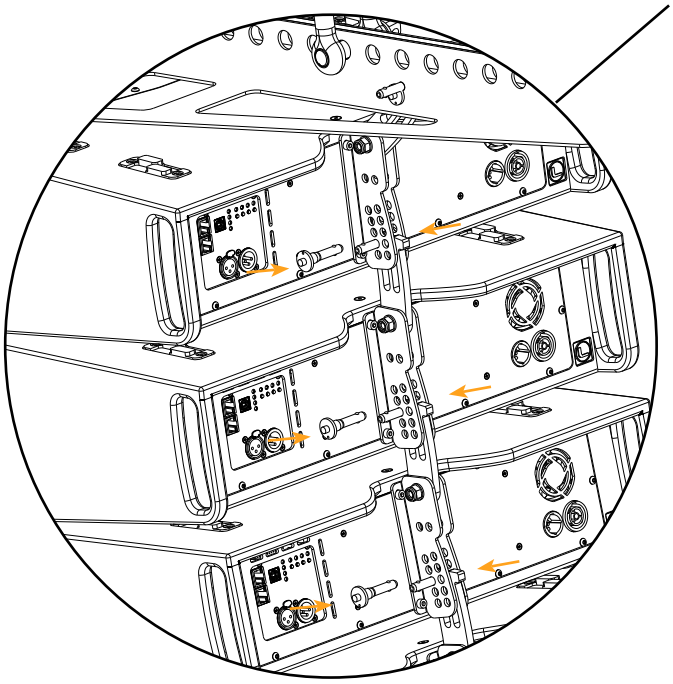
• Set angles in rest position as simulated in Rainbow 3D and rise the array



How to use the flying frame on LAIA-26



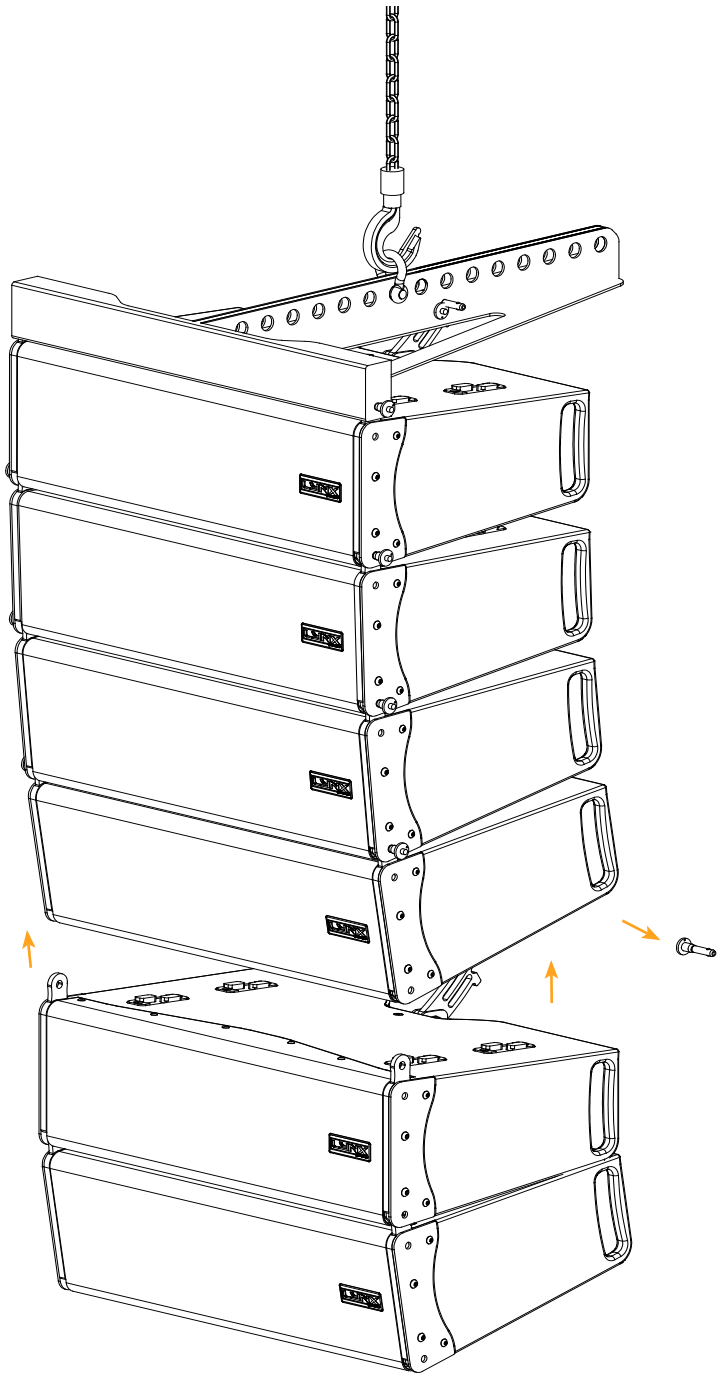




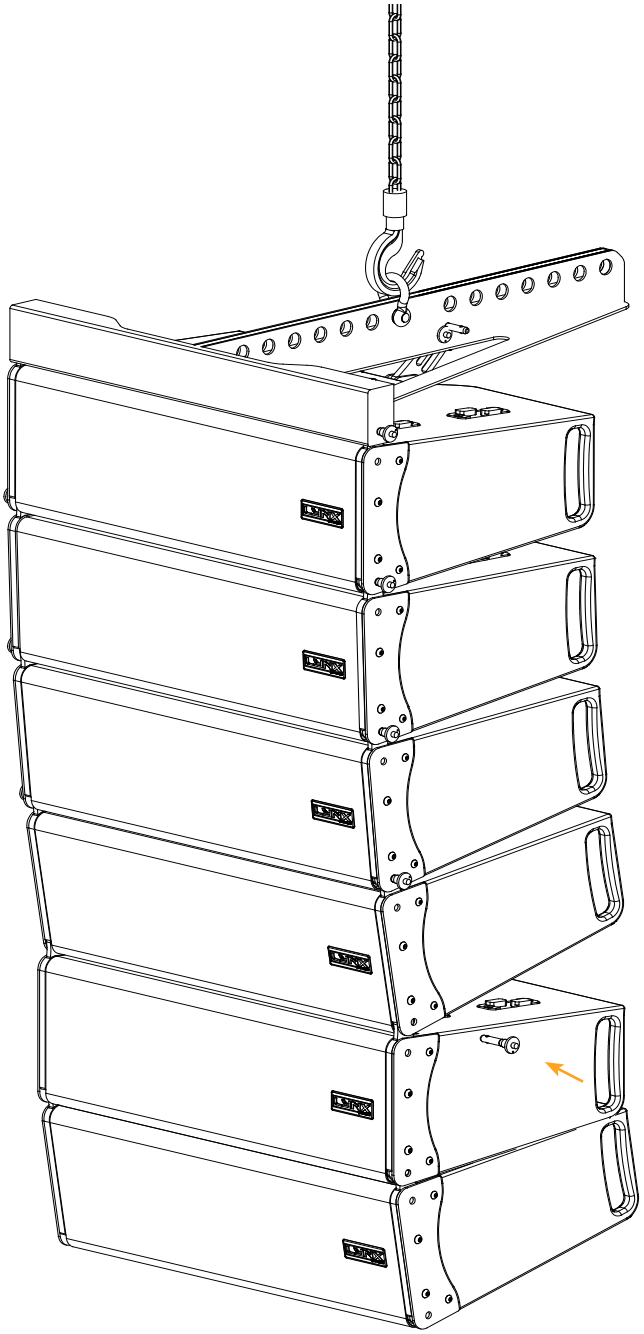
• Insert the safety pins in the lower position and the angulation pins in the upper position, ensuring they are correctly aligned with their designated holes. Confirm that the cabinets are securely fastened via the front links and the rear rigging point.

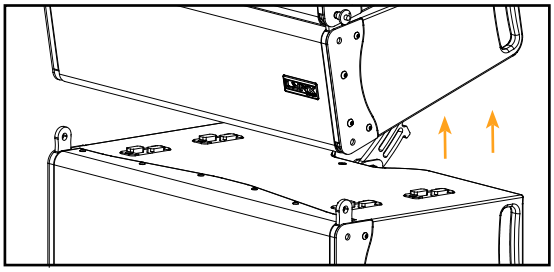
How to use the flying frame on LAIA-26

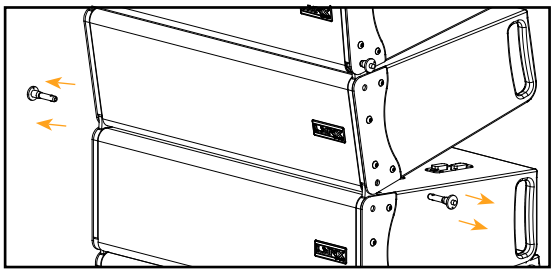
- Join the cabinets



- Introduce security pins

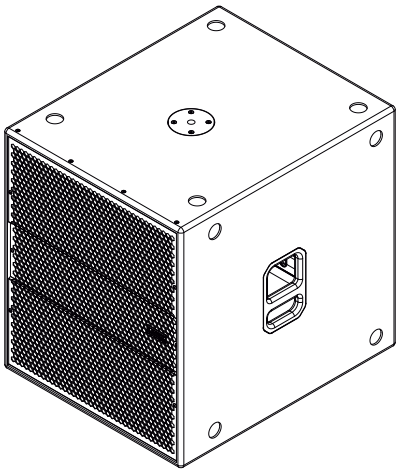






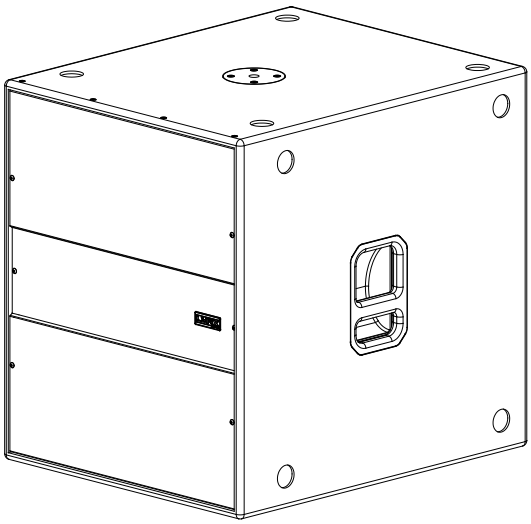
LAIA-18S RIGGING HARDWARE

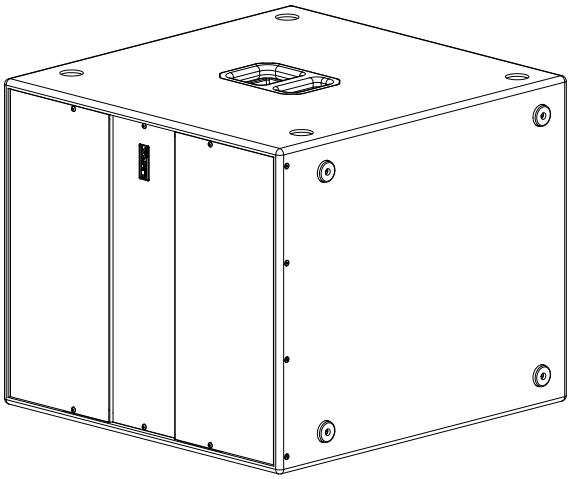
- LAIA-18S enclosure



Two ergonomic handles with firm internal grip to facilitate transport, positioning and loading of the cabinets.

One handle are placed on each side of the cabinet.





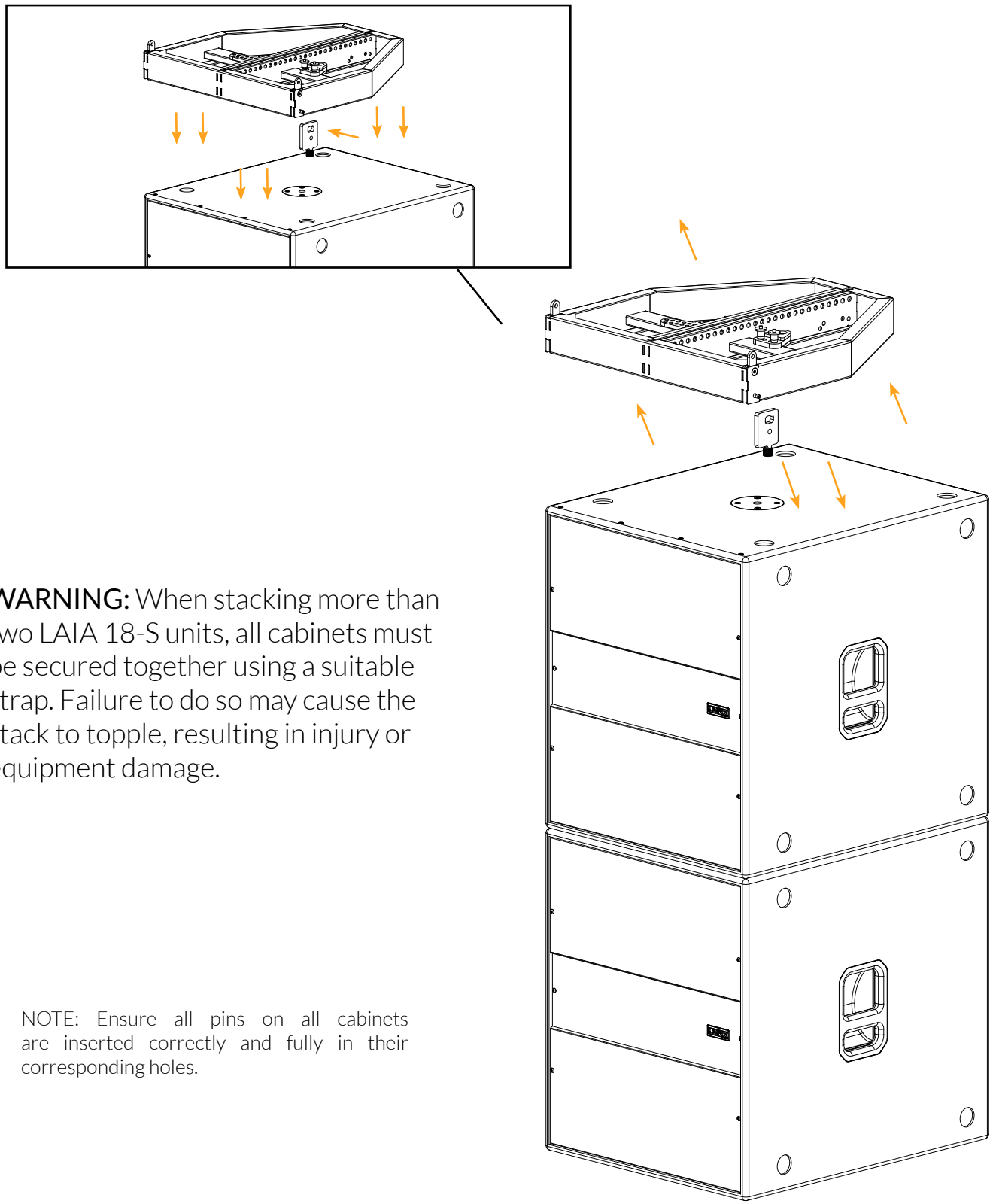
LAIA-18S STACK CONFIGURATION

Install the ST-SVLAIA/M20 connection kit onto the LAIA-18S subwoofer.

This is required in order to attach the SV-LAIA20 accessory.

Make sure all screws are properly installed.

Next, place the SV-LAIA20 on top of the LAIA-18S subwoofer to configure the stack.

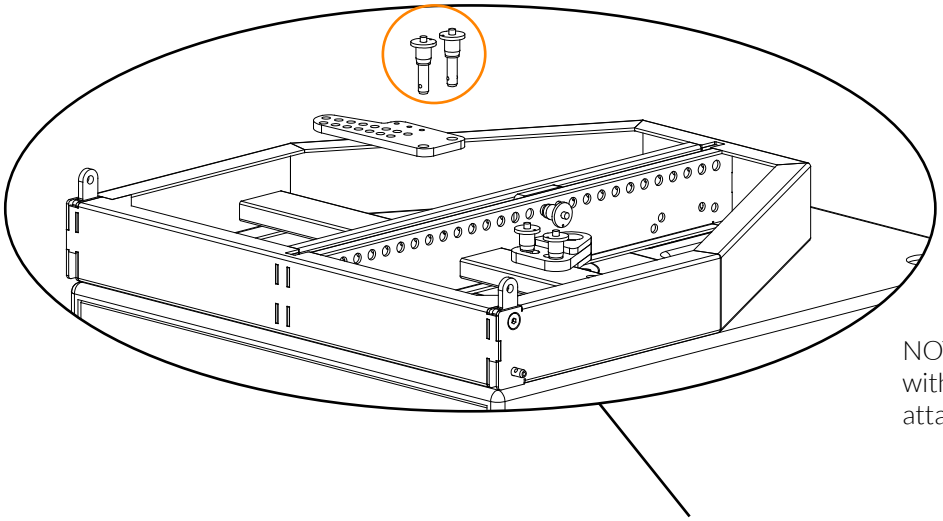


WARNING: When stacking more than two LAIA 18-S units, all cabinets must be secured together using a suitable strap. Failure to do so may cause the stack to topple, resulting in injury or equipment damage.

NOTE: Ensure all pins on all cabinets are inserted correctly and fully in their corresponding holes.

LAIA-18S STACK CONFIGURATION

• Once the SV-LAIA20 flying frame is placed on top of the LAIA-18S, make sure that the pins and holes are tight and secure. Also, be sure to remove the pin located above the flying frame so that the LAIA-18S enclosure can be positioned after securing it.



NOTE: Be sure to take out the pin marked with a circle. This stack adapter is needed to attach the LAIA-26 cabinet afterwards.

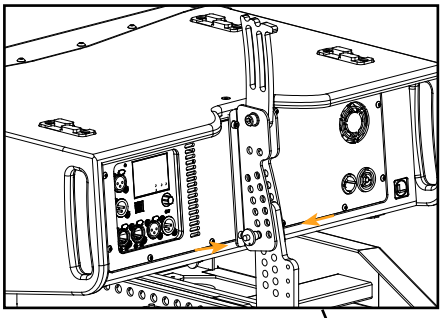
WARNING: When stacking more than two LAIA 18-S units, all cabinets must be secured together using a suitable strap. Failure to do so may cause the stack to topple, resulting in injury or equipment damage.



LAIA-18S STACK CONFIGURATION

• First of all, place the stack adapter at positions 20 and 22. Then place the LAIA-26 cabinet carefully on top of the flying frame. Insert the ball pins in the front holes. After that, insert the rear pin in the desired stack angle. Make sure to fit in all the pins correctly on the links until the array is attached to the LAIA-18S cabinet.

Reminder: The system can be rigged and angled in retracted position enabling a much easier set-up without the need to lift each cabinet individually. The top pins are removed to adjust the enclosure.

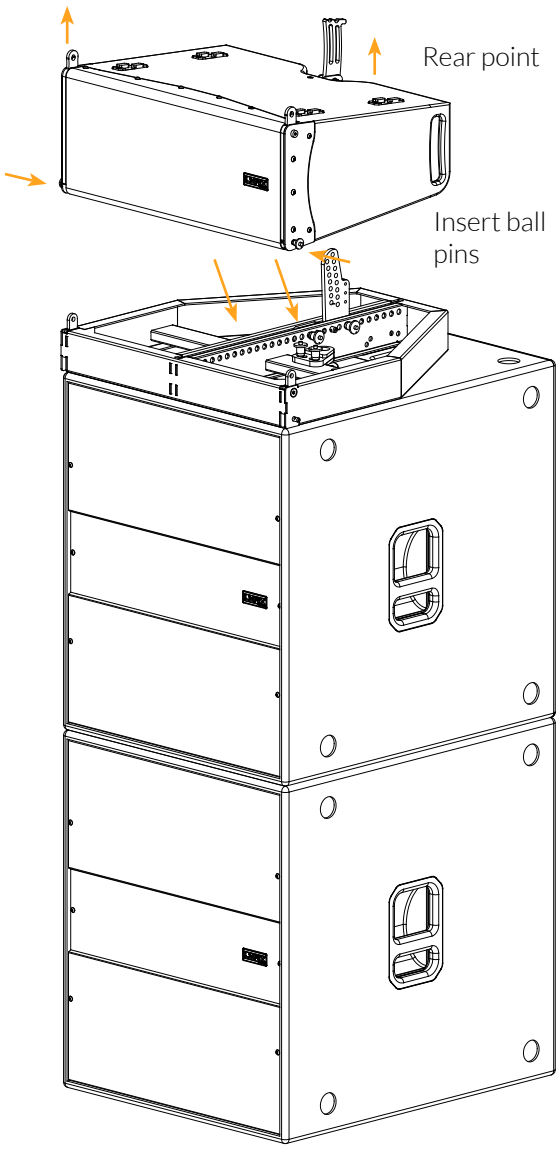


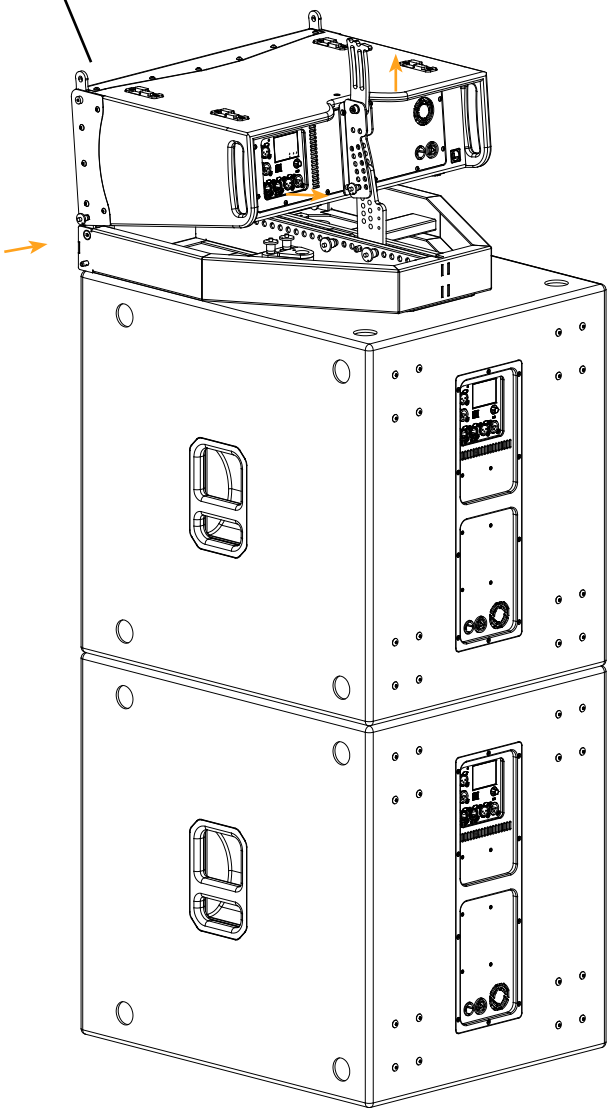
NOTE: Stack adapter needs to be at positions 20 and 22.

Front links

Rear point

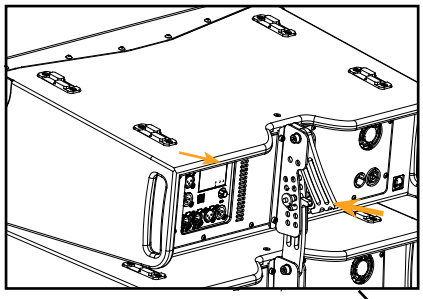
Insert ball pins





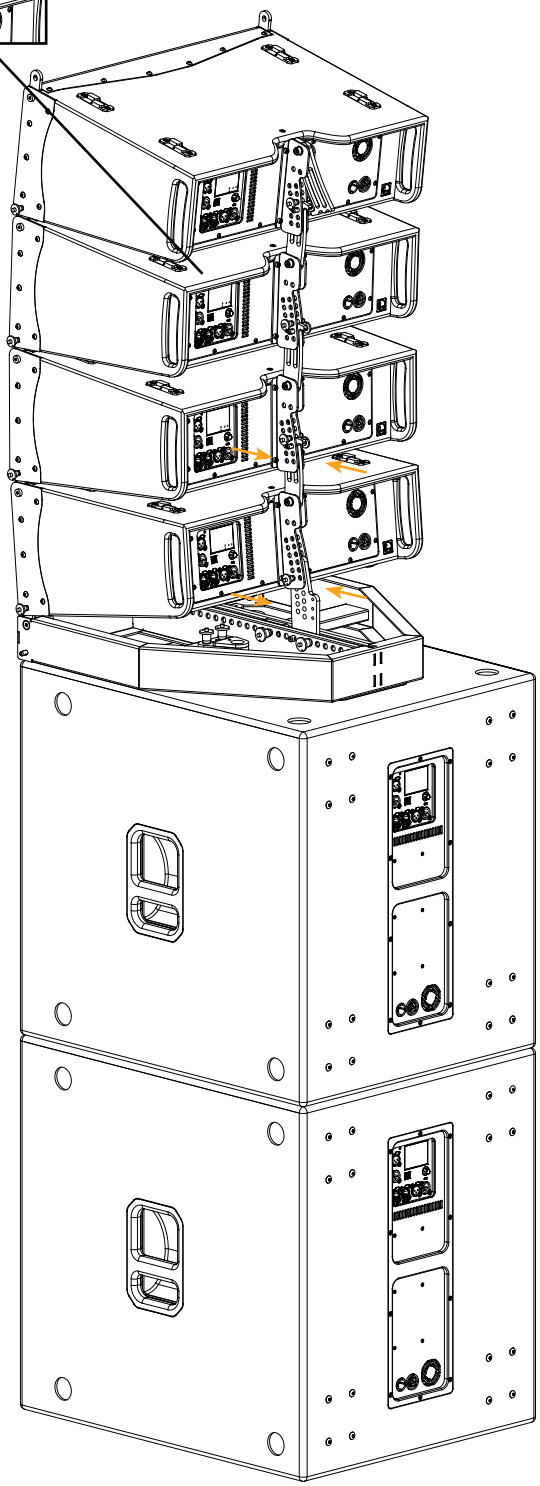
LAIA-18S STACK CONFIGURATION

• For stack configuration you can place 4 LAIA-26 cabinets on top of LAIA-18S subwoofer. Repeat the previous process: introduce the pins on their corresponding holes, assuring that the cabinets are secured through the front links and the rear rigging point.



Make sure to fit the pins on the angle splay to get the desired angulation on each cabinet. Our angle splay system allows to create an angulation between 0° to 10° with 1° step increments.

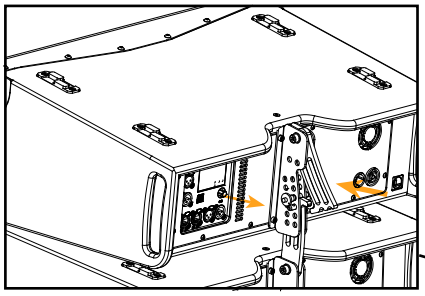




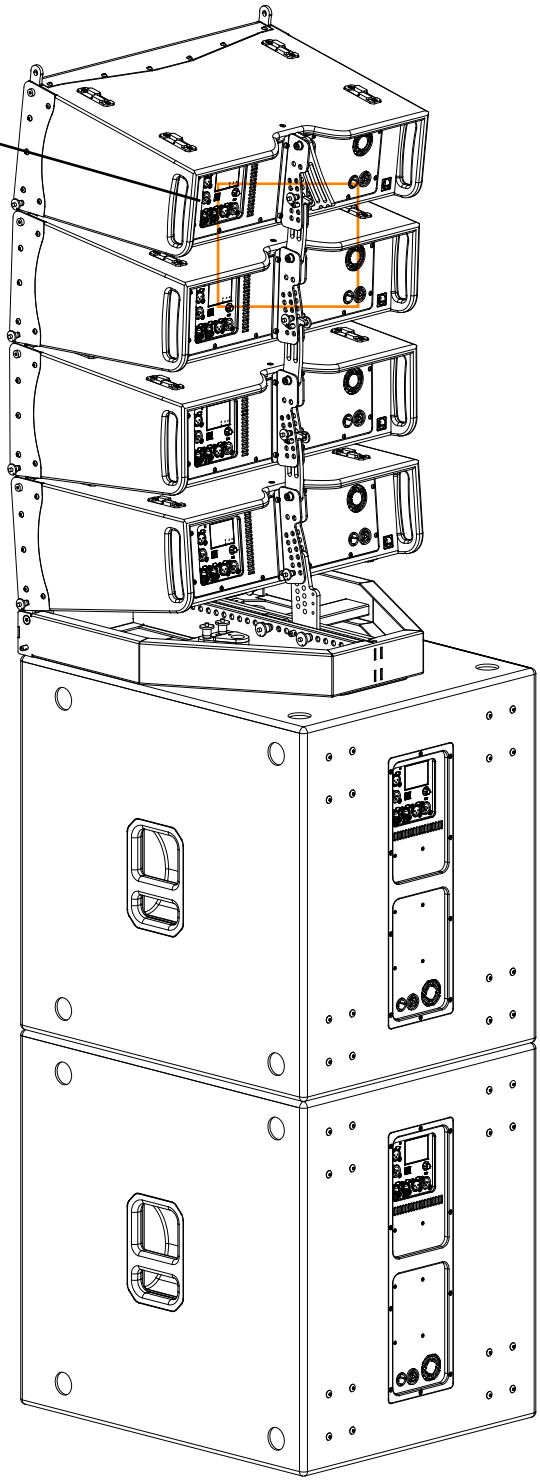
LAIA-18S STACK CONFIGURATION

• For angulation configuration, you can stack up to four LAIA-26 cabinets on top of LAIA-218S subwoofers.
Repeat the previous steps by inserting the pins into their designated holes, ensuring each cabinet is securely fastened using the front locking links and the rear rigging point.

In this setup, insert the top pin to set the desired angulation and the bottom pin to ensure safety.
The top pin controls the angle adjustment, while the bottom pin serves as a safety lock.

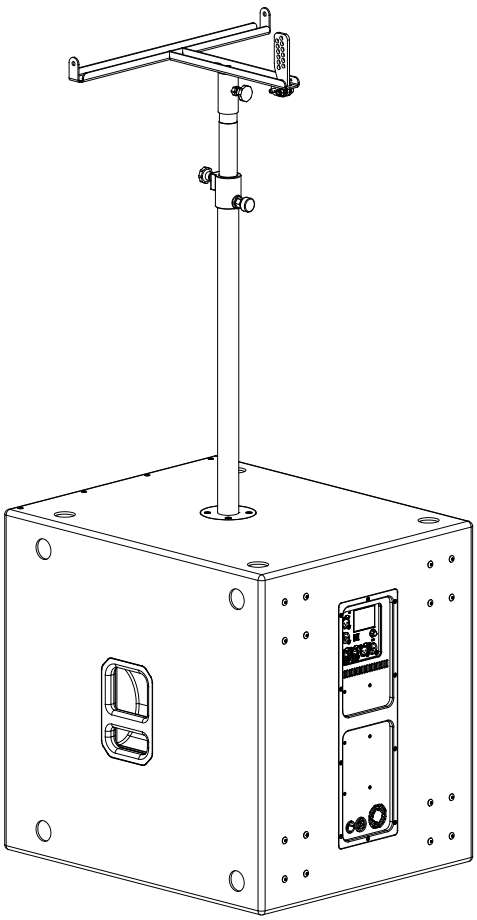


Note: Make sure to fit the pins on the angle splay to get the desired angulation on each cabinet. Our angle splay system allows to create an angulation between 0° to 10° with 1° step increments.



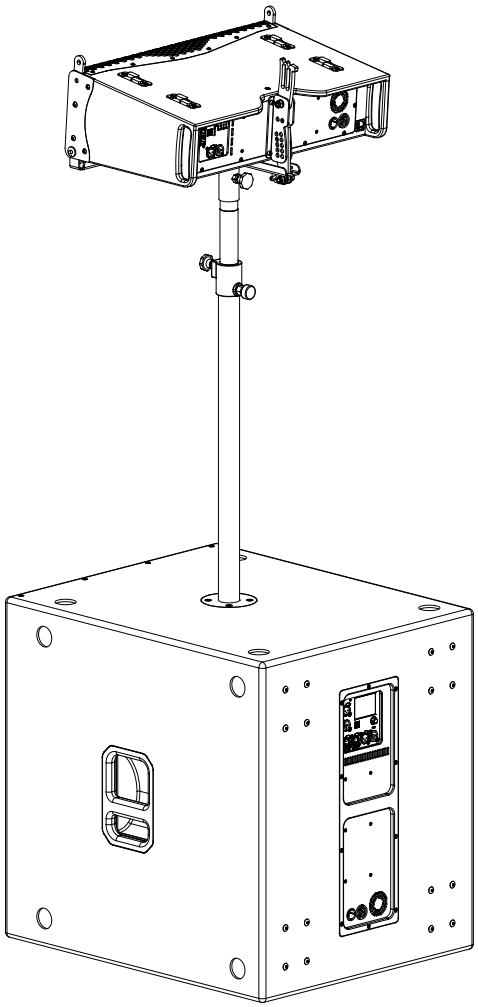
WARNING: When stacking more than two LAIA 18-S units, all cabinets must be secured together using a suitable strap. Failure to do so may cause the stack to topple, resulting in injury or equipment damage.

APPLICATION EXAMPLES FOR LAIA-26 & LAIA-18S



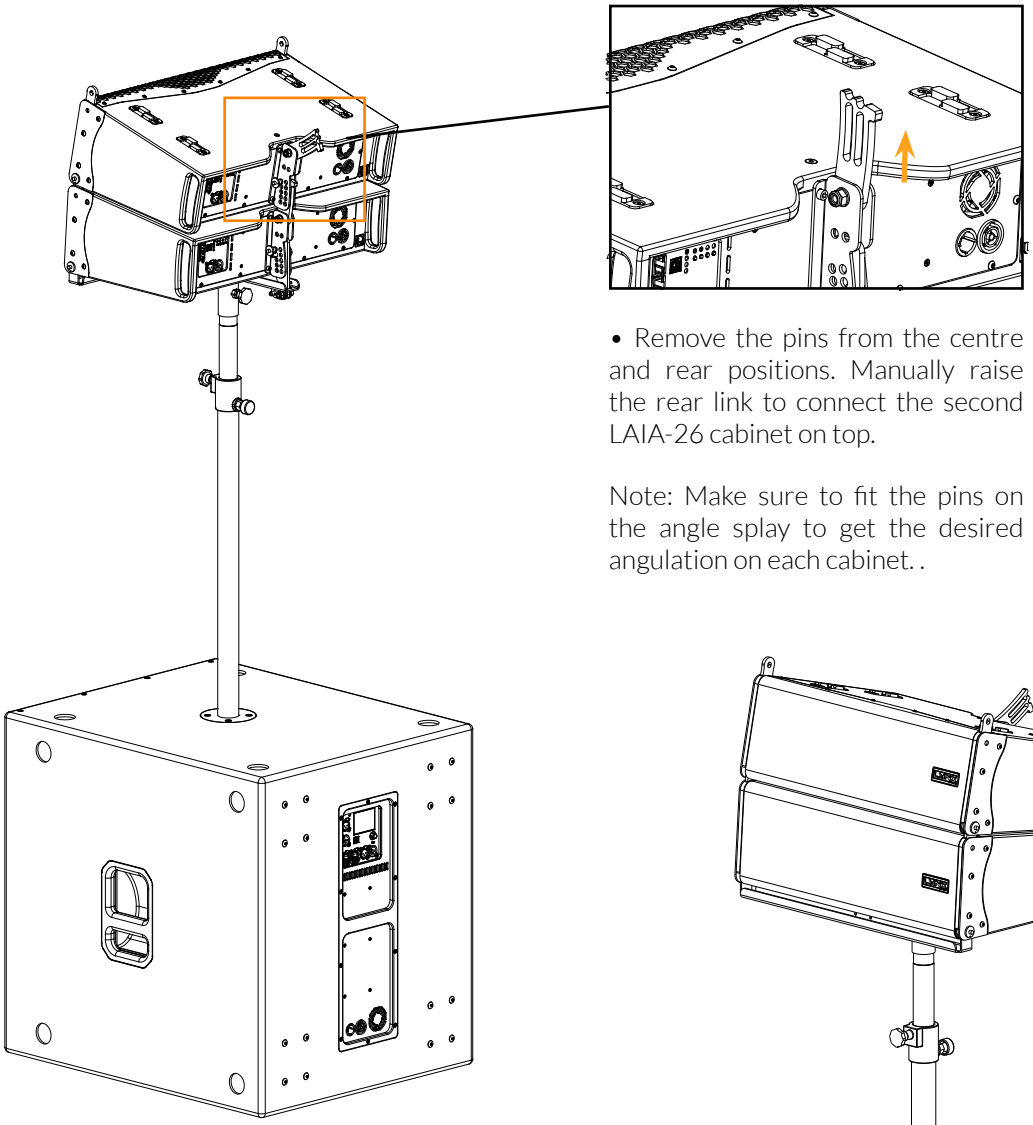
The LAIA-26 can be mounted directly on top as a satellite using the STRP-LAIA26 accessory and pole frame with the subwoofer speaker, providing a simple and flexible system configuration.

• Place the STRP-LAIA26 accessory and pole frame on the top of LAIA-18S.



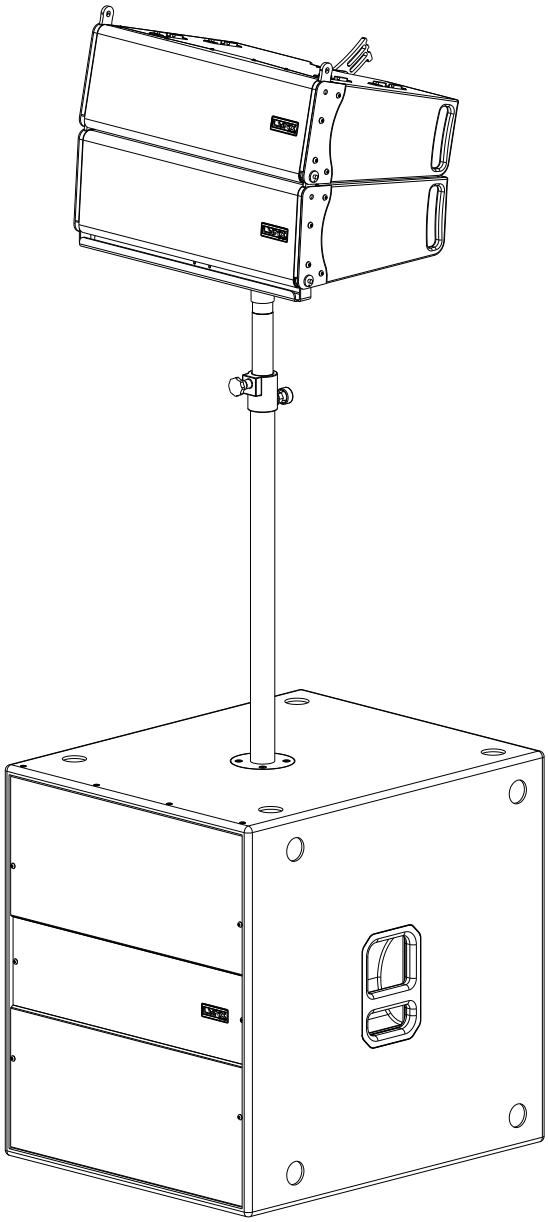
• Introduce the LAIA-26 onto the STRP-LAIA26 accessory and pole frame.

APPLICATION EXAMPLES FOR LAIA-26 & LAIA-18S

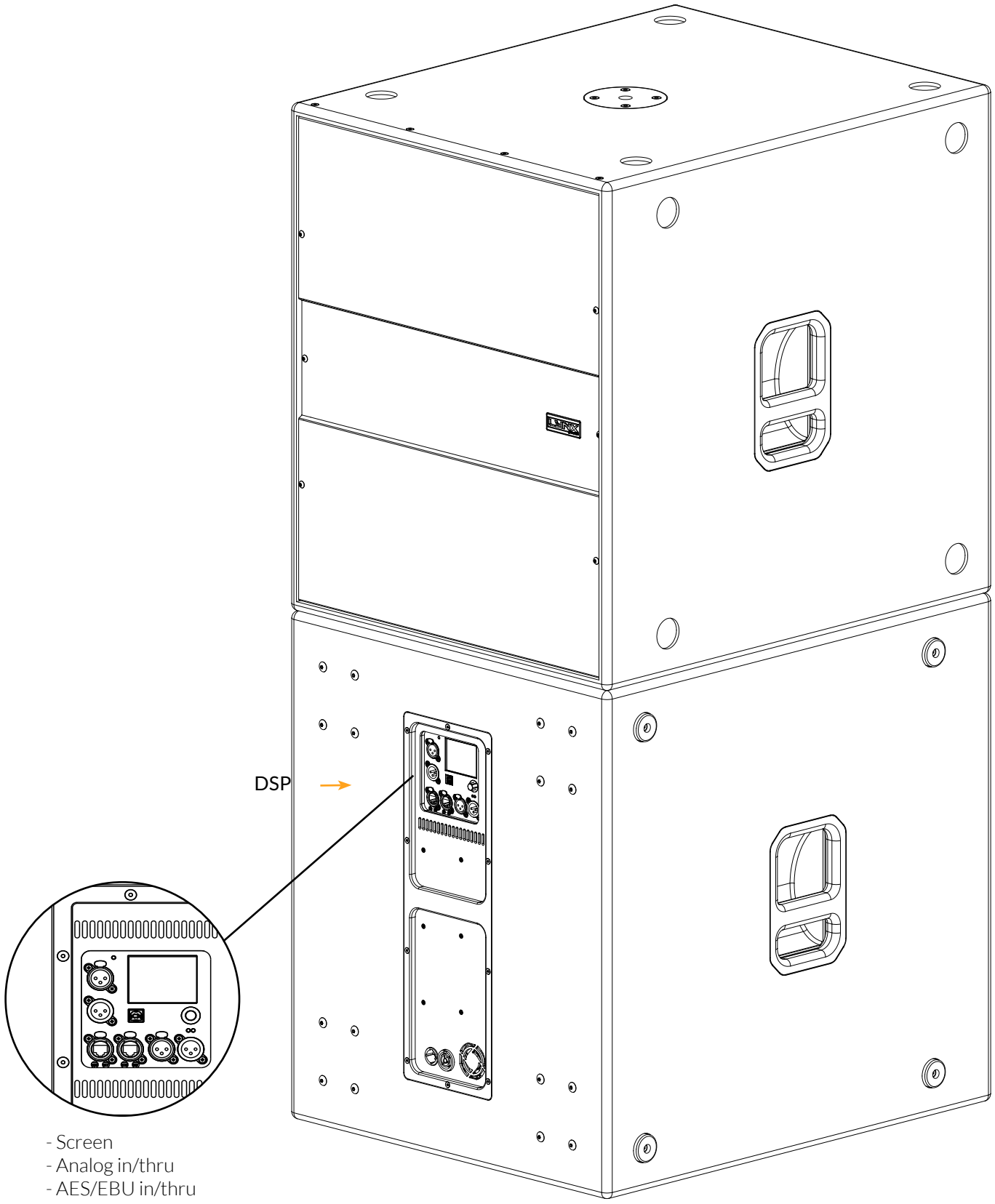


• Remove the pins from the centre and rear positions. Manually raise the rear link to connect the second LAIA-26 cabinet on top.

Note: Make sure to fit the pins on the angle splay to get the desired angulation on each cabinet. .



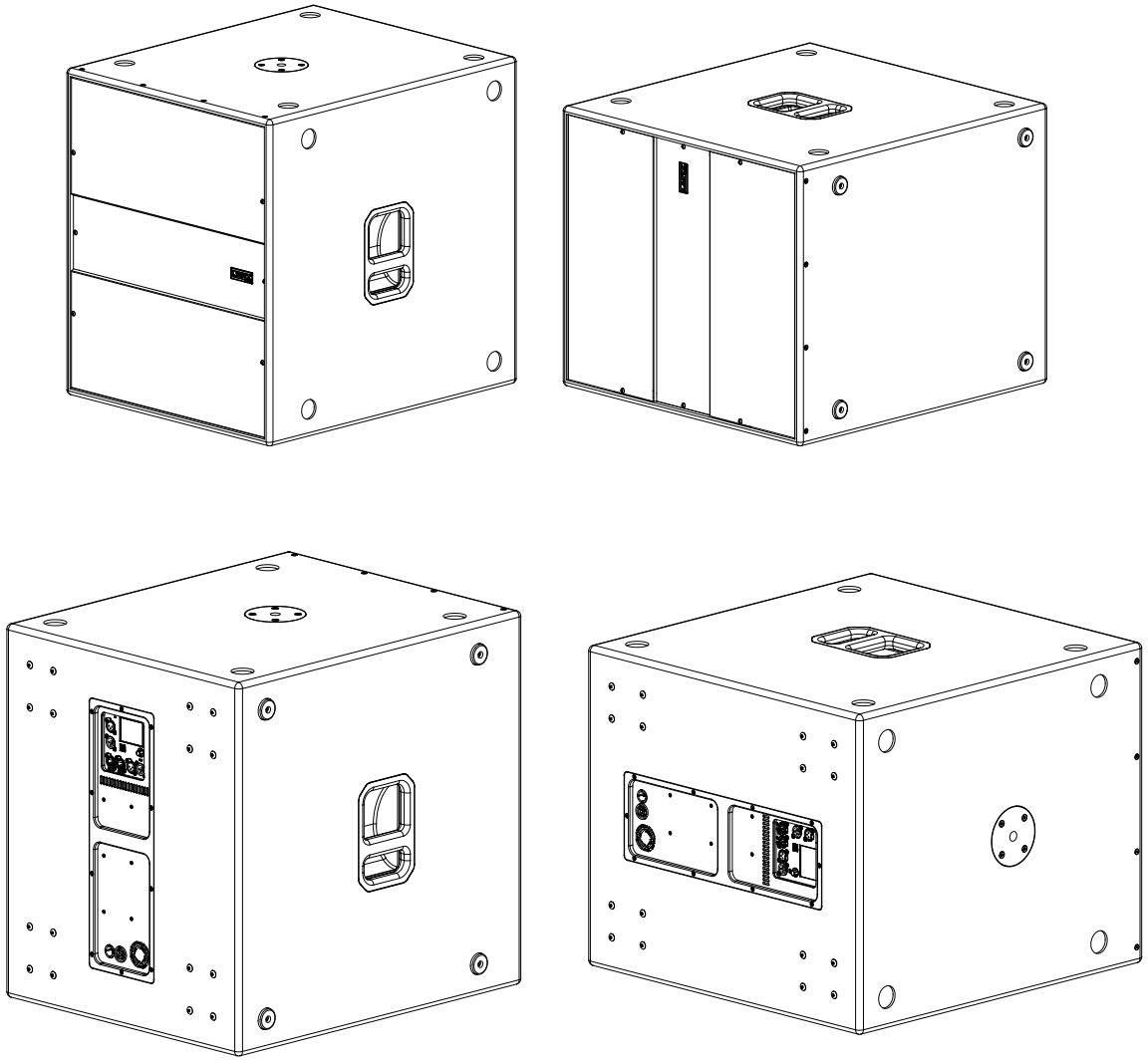
LAIA-18S APPLICATIONS



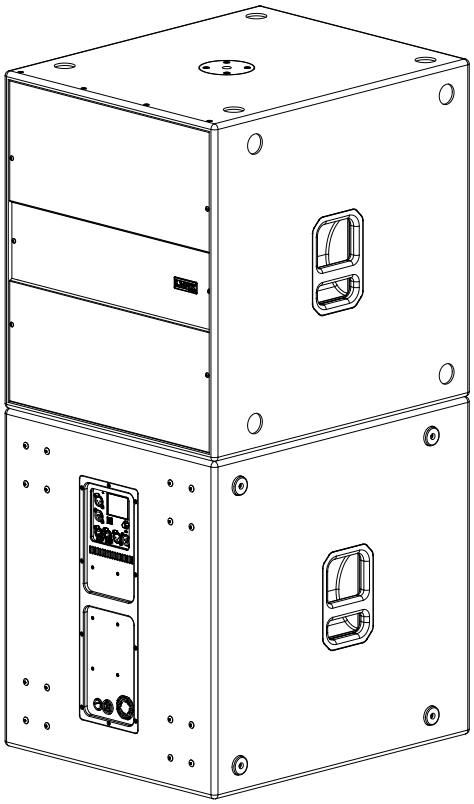
- Screen
- Analog in/thru
- AES/EBU in/thru
- Multifunction joystick
- Ethernet

LAIA-18S APPLICATIONS

- Operation modes: Horizontal + Vertical



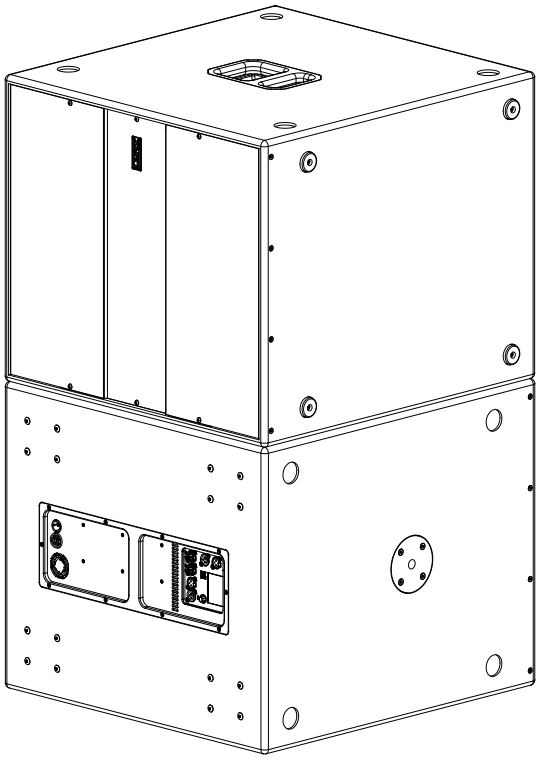
LAIA-18S APPLICATIONS



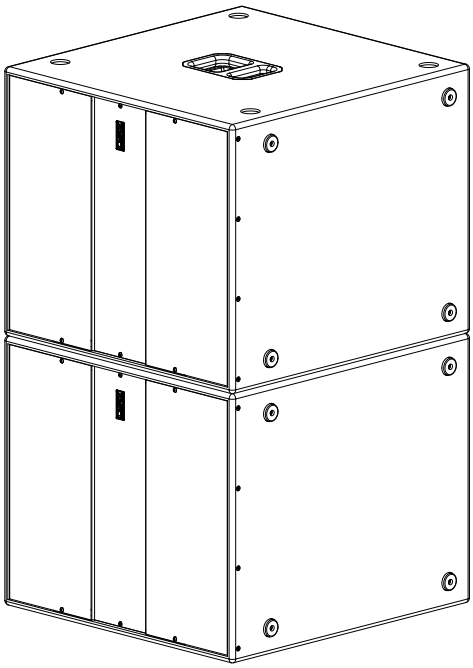
• 2 LAIA-18S in vertical cardioid configuration



• 2 LAIA-18S in regular configuration



• 2 LAIA-18S in vertical cardioid configuration

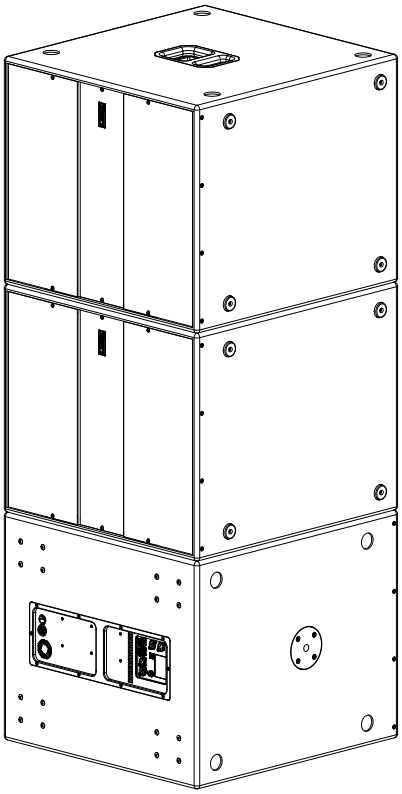


• Up to 2 LAIA-18S

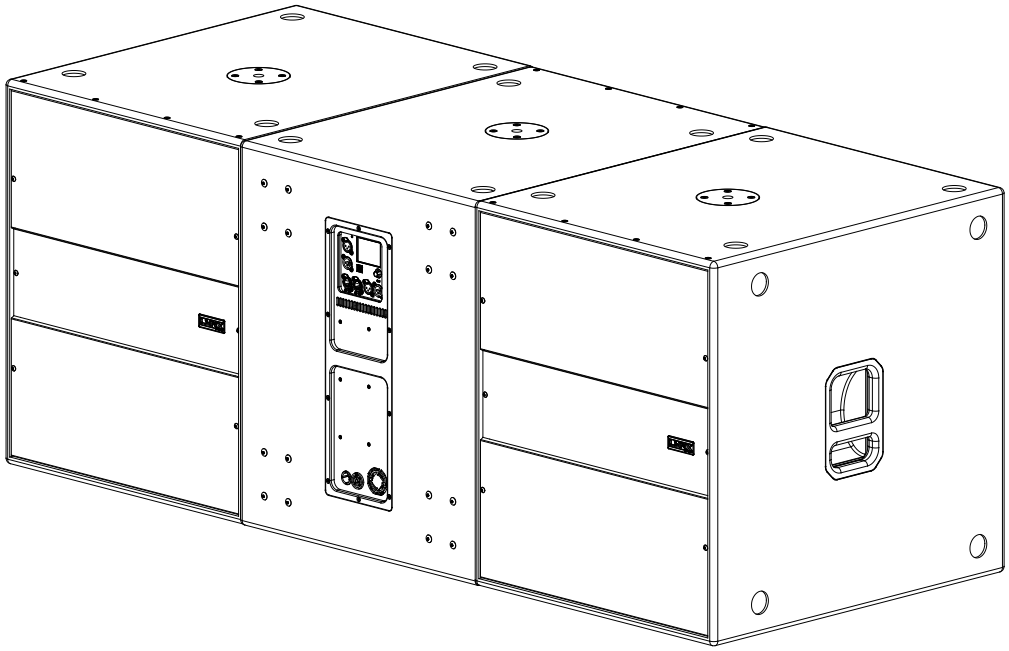
LAIA-18S APPLICATIONS



• Up to 3 LAIA-18S in vertical cardioid configuration



• Up to 3 LAIA-18S in vertical cardioid configuration



• 3 LAIA-18S in horizontal cardioid configuration

3. ONLINE CONTROL SYSTEM

- Who is it for?

Users of Self powered DSP incorporated Lynx Pro Audio Cabinets where the user has requested the cabinets be supplied with the Ethernet Module kit.

- What is it for?

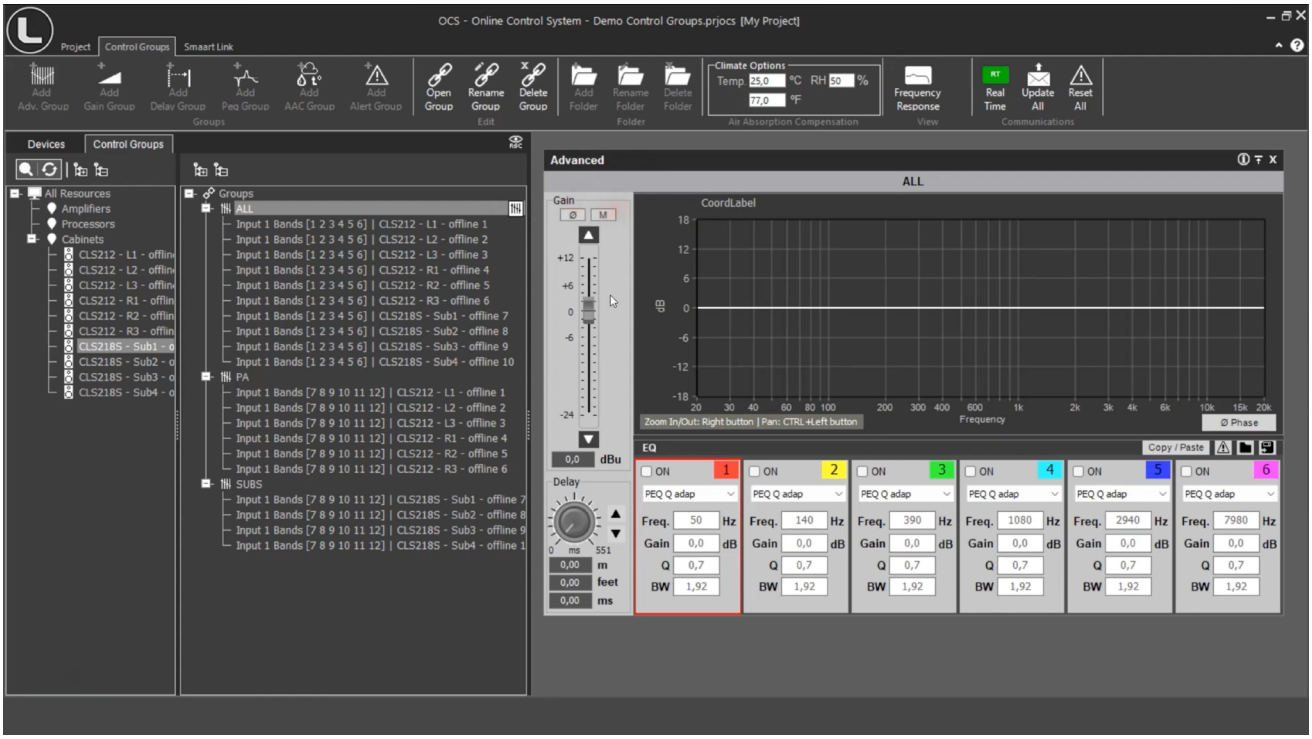
Obtain detailed information of cabinet behaviour and monitor the cabinet/s in real time. You can change the preset, gain, mute, polarity and phase. You can also activate the air absorption compensation and select the «SOLO» mode.

- How does it work?

Via Ethernet (cable or wireless). Once installed, the O.C.S. software automatically detects all the cabinets connected to the network and displays them in the O.C.S. window on the users PC.

- What does it show?

As well as displaying the cabinet model and IP address the O.C.S will be monitoring in real time and the user will be able to view RMS levels, Input clip, power module temperature, compression levels, air absorption compensation and cabinet angulation.



4. RAINBOW (Acoustic Prediction Software)

Lynx Pro Audio's R&D department is working on Rainbow 3D, our acoustic simulation software with dynamic 3D features. With a sophisticated design, Rainbow 3D stands out for its speed, being able to provide a simulation in just a few seconds. It also provides algorithms for beam steering and optimizing the listening area.

• Designed from scratch by professionals

Rainbow 3D has been programmed from scratch by Lynx Pro Audio engineers, using new programming procedures that achieve an effective simulation with really low calculation time.

• Multiple listening zones

The program can simulate all Lynx Pro Audio's acoustic enclosures located in a 3D space, including the classic side, top and front views. It can also define multiple listening zones and allows offset positioning and symmetry. Blueprint images, textures and PNG format pictures can be imported.

• Unlimited sound sources

Allows the acoustic simulation for an unlimited number of sound sources and audio systems. You can place as many systems (subwoofers, line arrays, columns and individual boxes) as you desire. Also, the line arrays can be placed in stack or flown configuration.

• Beam steering

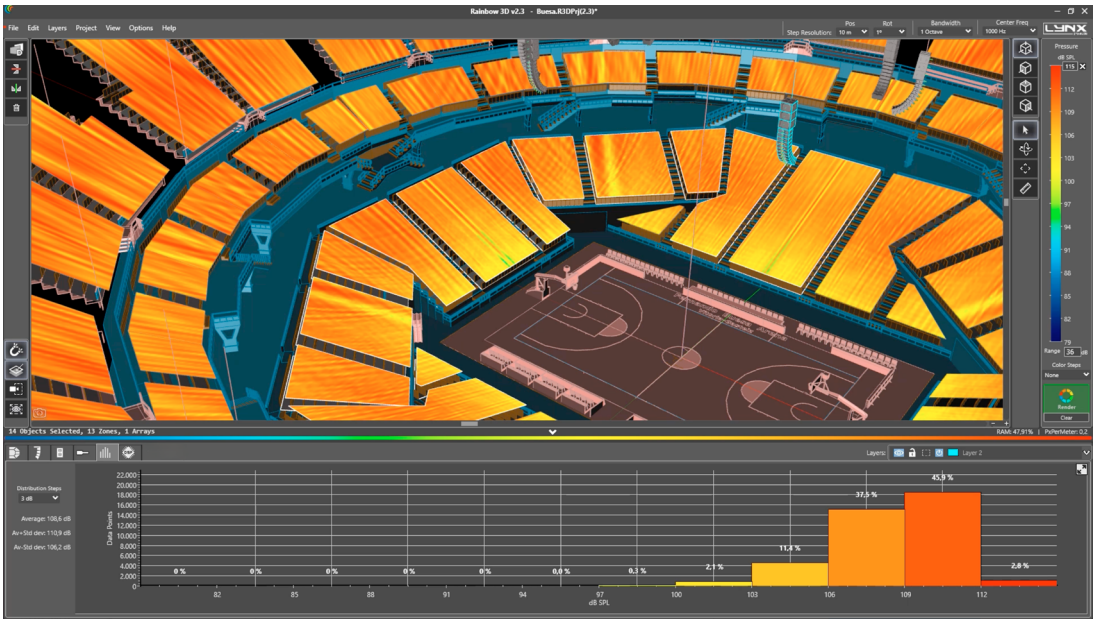
Rainbow 3D has the ability to add DSP processing to the simulation and uses algorithms to control the directivity (beam steering) in columns, without the need to tilt them physically, being able to divide the column into several beams that point to different zones.

• Accurate optimization thanks to FIR filters

Optimized algorithms are used in the listening area to improve the sound coverage and the frequency response. This feature can be executed in a matter of seconds. Additionally, the export of FIR coefficients can be performed with the optimization for later loading in the DSP via Ethernet or a USB device. In the near future direct communication with Lynx Pro Audio and OCS will be available.

• Multiple measures and tools

Likewise, the R&D department is developing multiple measurement and analysis tools for the calculated data. For example, the sound pressure curves (SPL) in the listening areas and the capture of virtual measurements that show the frequency response in the points of location indicated and added. Among other tools you will find autosplay and a wizard to set up different subwoofer arragements.



LYNX PRO AUDIO GUARANTEE

Lynx products are guaranteed against every kind of manufacturing fault 2 year after the date of sale. When products are under guarantee, the repairing and the free supplying of the device parts in order to correct any kind of defect are guaranteed by Lynx Pro Audio S.L. In the case that the product could not be returned to the factory for checking and repairing, Lynx Pro Audio S.L. would supply all the necessary parts.

Lynx Pro Audio S.L. is not responsible for any damage or defect caused during the transport or caused by an undue or improper handling by a non-authorized person during the life of this guarantee.

All our products go through rigorous testing and quality controls. We guarantee the characteristics described here within and their quality against any fabrication defect.

The user loses all warranty rights if he incorporates or carries out any modification to the product, if he uses it outside of the stated safe working loads or does not secure the system properly using all the pins in their corresponding holes.

For any question regarding the product, the user must quote the model and serial number.

WEEE Declaration: Electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime. Please dispose of this product according to the respective national regulations or contractual agreements. If there are any further questions concerning the disposal of this product please contact Lynx Pro Audio S.L.

CE

DECLARATION OF CONFORMITY

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SPAIN - EU
Tel.: (+34) 961 10 96 01
www.lynxproaudio.com

Lynx Pro Audio S.L. declares that LAIA series are in conformity with the following EC directives:

Low Voltage Directive	2014/35/UE
Electromagnetic Compatibility EMC	2014/30/UE
RoHS Directive	2011/65/UE
RAEE (WEEE)	2012/19/UE

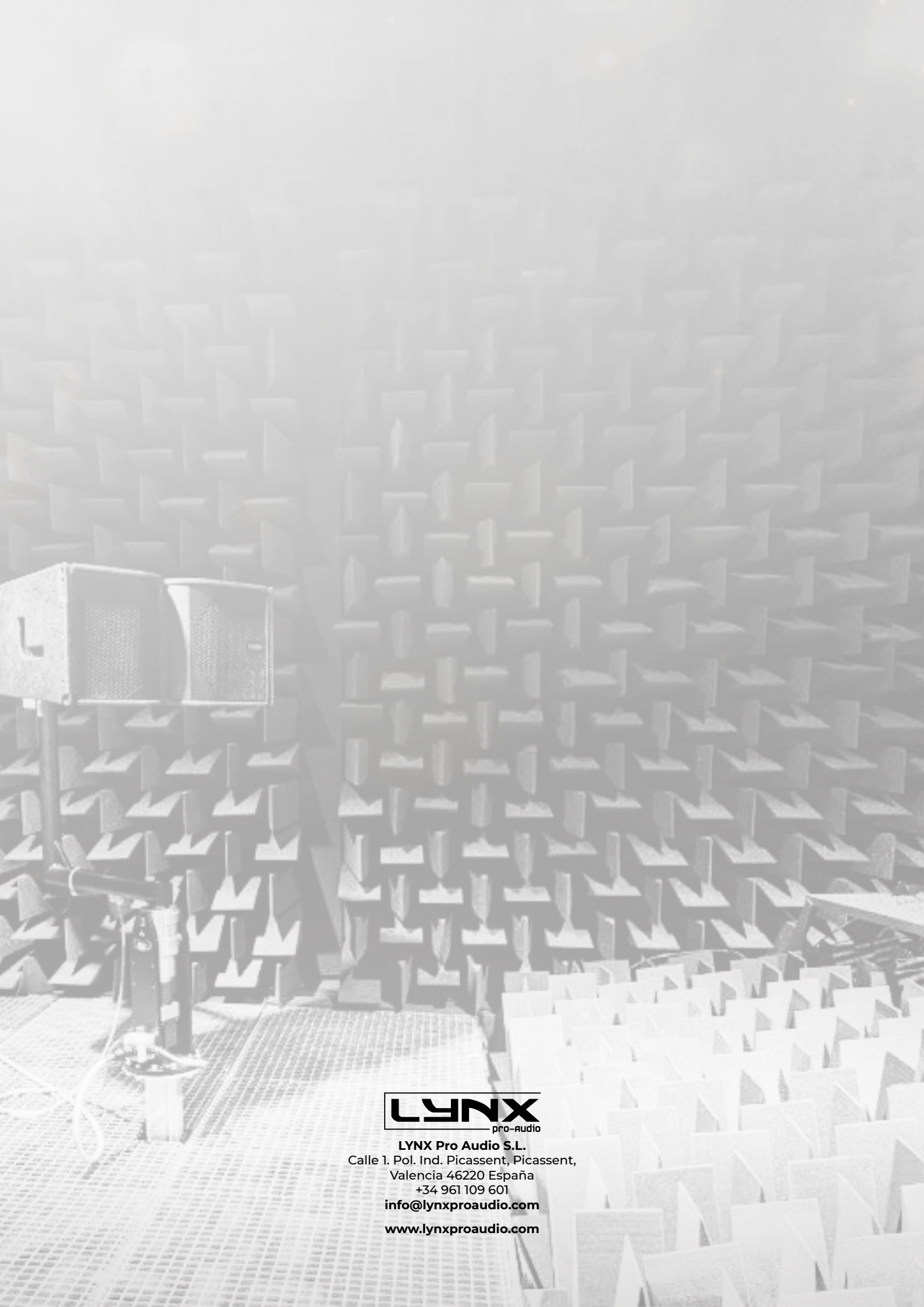
In accordance with Harmonized European Norms:

EN 60065:2014	Audio, video and similar electronic apparatus. Safety requirements
EN 60065:2002	Audio, video and similar electronic apparatus. Safety requirements
EN 55103-1:1996	Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 1: Emission.
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Models

LAIA - 210 | LAIA - 28 | LAIA - 26
LAIA-12 | LAIA - 18S | LAIA - 218S

LYNX pro-audio



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