

ELVA Series

USER MANUAL



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CE CERTIFICATION, EUROPEAN PRODUCT

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WELCOME

Before working with the ELVA cabinet 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 ELVA cabinets become a working tool of great value, providing the user with the best solutions in the market with 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 ELVA speaker will meet your expectations and make it easier for you to get the most out of your system.

IMPORTANT SAFETY INSTRUCTIONS

The CE mark of the **ELVA** speaker shows that it is verified and tested to accomplish the European Norms and International Norms about Electromagnetic Compatibility and Electrical Safety.



Radiated Emissions : EN55013-1 (1996)
RF Immunity: EN55103-2 (1996)
Electical Safety: EN60065 (1993)
IEC65 (1985) and emendation 1, 2 and 3

This product also meets the specifications of the following safety directives:

Low Voltage Directive 73/23/EEC

EMC Directive 89/336/EEC



Product Developed and Manufactured in the European Union.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that is necessary for the user to refer to the owner's manual.

Warning :

- Do not expose the speaker to humidity and dust.**
- Do not take off the top cover.**
- Do not handle internal elements to avoid electrical shock.**
- Use only power cords in good condition.**

Unpacking the ELVA

Before unpacking your new speaker, verify that the box does not show any damage or deformation. If this happens, please claim the damage to your forwarder. Once unpacked and verified its correct operation, keep the original box in case you need to ship it back to your provider.

1.- INTRODUCTION

To facilitate the correct and reliable use of the ELVA cabinets we have designed this instruction manual, please read it before proceeding to install the cabinet.

Please observe the technical data carefully and do not ignore the instructions included within this manual.

Thank you for choosing Lynx Pro Audio. The ELVA series represents our commitment to delivering high-quality, reliable, and user-friendly professional audio solutions for a wide range of applications. Whether you are working in a live sound environment or a fixed installation, the ELVA 4T, ELVA 6T, and ELVA 8T models are designed to meet the demanding needs of modern sound professionals, offering exceptional clarity, power, and consistency.

These systems are engineered to perform flawlessly in diverse environments, from dynamic club and bar installations where compact, high-output solutions are crucial, to large-scale theatre productions that require precise sound coverage and control. The ELVA series also excels in houses of worship, where intelligibility and even sound distribution are paramount. For broadcast and multimedia spaces, these speakers deliver accurate and detailed sound reproduction, ensuring that every nuance of the audio is captured and delivered with clarity. In public address applications, where reliability and coverage are essential, the ELVA series provides dependable performance, ensuring that every voice or sound reaches its audience with full impact.

This manual has been designed to guide you through the installation, setup, and maintenance of your ELVA equipment. Whether you are an experienced technician or an audio engineer, we have included detailed information to help you optimize the performance of your system, troubleshoot common issues, and ensure longevity through proper care. We believe the ELVA series will support your work by delivering sound quality that meets the highest professional standards, contributing to the success of your projects.

At Lynx Pro Audio, we understand the demands of sound professionals, and we are confident that the ELVA series will provide the tools you need to achieve outstanding results in every application.

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**

ROX 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 installation**

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 speaker 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.

3. TECHNICAL DATA

ELVA- 4T DATASHEET

Ultra-compact, full range, two way passive cabinet for background sound reinforcement. It consists of a 4" low/mid woofer with one 0,5" high frequency dome tweeter with line transformer. It offers 100° x 90° dispersion, 105 dB SPL and 60W program.

Applications

- Club & Bar installations
- Theatres
- Houses of worship
- Broadcast
- Multi media spaces
- Public address

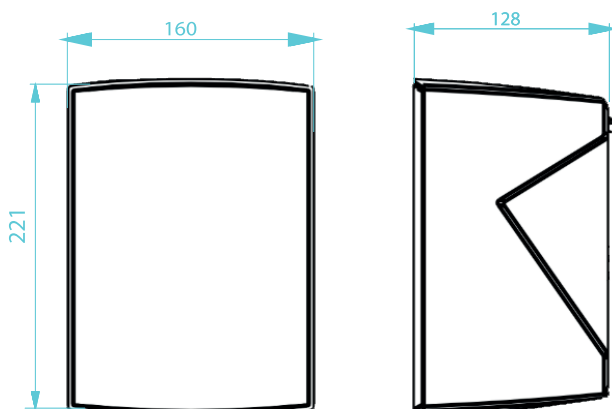
Key features

- Ultra-compact, high performance
- Background sound reinforcement
- LUKA processor optimised preset
- White, black colour
- Rugged design
- Indoor & outdoor application
- Low and High impedance selector with 5 taps
- IP66 for outdoor use with accessory terminal cover
- 8 ohm or 100V line operation

• Technical Data:

Frequency range	100 Hz – 20 KHz (-10dB)
Frequency response	120 Hz – 18 KHz (± 3dB)
Max SPL @ 8Ohm	104 dB – 110 dB peak
Components	
• LF:	1 x 4" (102mm), 1" voice coil, (25mm)
• MF / HF:	1 x 0,5" dome tweeter
Sensitivity @ 8 Ohm	90 dB (1w @ 1m)
Rated Power @ 8 Ohm Transformer taps @ 100v	30w aes, 60w program, 120w peak 1,9W, 3,75W, 7,5W, 15W, 30W
Coverage	100° H x 90° V
Nominal Impedance	8 Ohm L100V
Connectors	4 x barrier terminal blocks
Finish	Black and white finish
Material	ABS, painted mesh aluminium grill
Dimensions	160 x 221 x 128 (mm)
Weight	2,5 Kg
Fittings	1 x M4 safety, 2 x M4 wall bracket
Accessories	Wall bracket included
Other info	IP66 rating when used with accesory terminal cover.

• Dimmensions:



ELVA- 6T DATASHEET

Two-way, full range, passive, 6" loudspeaker with line transformer for background sound reinforcement. It consists of a 6" low/mid woofer with one 1" high frequency dome tweeter. It offers 100° x 90° dispersion, 107 dB SPL and 100W program.

Applications

- Club & Bar installations
- Theatres
- Houses of worship
- Broadcast
- Multi media spaces
- Public address

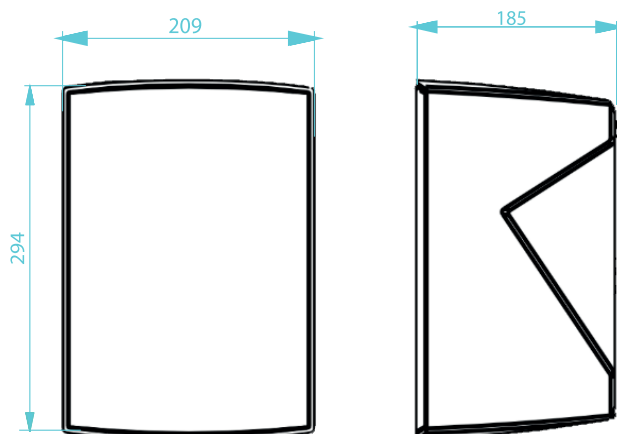
Key features

- Ultra-compact, high performance
- Background sound reinforcement
- LUKA processor optimised preset
- White, black colour
- Rugged design
- Low and High impedance selector with 5 taps
- IP66 for outdoor use with accessory terminal cover
- 8 ohm or 100V line operation
- Wall bracket included

• Technical Data:

Frequency range	70 Hz – 20 KHz (-10dB)
Frequency response	90 Hz – 18 KHz (± 3dB)
Max SPL @ 8Ohm	106 dB – 112 dB peak
Components	
• LF:	1 x 6,5" (165mm), 1" voice coil, (25mm)
• MF / HF:	1 x 1" dome tweeter
Sensitivity @ 8 Ohm	89 dB (1w @ 1m)
Rated Power @ 8 Ohm Transformer taps @ 100v	50w aes, 100w program, 200 peak 3,1W, 6,25W, 12,5W, 25W, 50W
Coverage	100° H x 90° V
Nominal Impedance	8 Ohm L100V
Connectors	4 x barrier terminal blocks
Finish	Black and white finish
Material	ABS, painted mesh aluminium grill
Dimensions	209 x 294 x 185 (mm)
Weight	3 Kg
Fittings	1 x M4 safety, 2 x M4 wall bracket
Accessories	Wall bracket included
Other info	Wall bracket include IP66 rating when used with accesory terminal cover.

• Dimmensions:



ELVA- 8T DATASHEET

Two-way, full range, passive, 8" loudspeaker with line transformer. Cabinet for background sound reinforcement. It consists of a 8" low/mid woofer with one 1" high frequency dome tweeter. It offers 100o x 90o dispersion, 108 dB SPL and 160W program.

Applications

- Club & Bar installations
- Theatres
- Houses of worship
- Broadcast
- Multi media spaces
- Public address

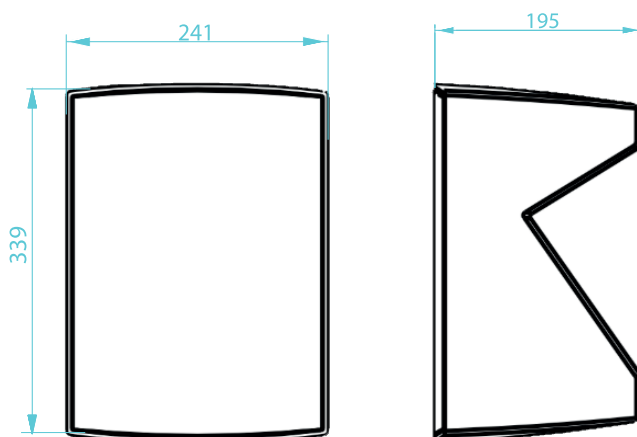
Key features

- Ultra-compact, high performance
- Background sound reinforcement
- LUKA processor optimised preset
- White, black colour
- Rugged design
- Low and High impedance selector with 5 taps
- IP66 for outdoor use with accessory terminal cover
- 8 ohm or 100V line operation
- Wall bracket included

• Technical Data:

Frequency range	60 Hz – 20 KHz (-10dB)
Frequency response	70 Hz – 18 KHz (± 3dB)
Max SPL @ 8Ohm	109 dB – 115 dB peak
Components	
• LF:	1 x 8" (203mm), 1" voice coil, (25mm)
• MF / HF:	1 x 1" dome tweeter
Sensitivity @ 8 Ohm	90 dB (1w @ 1m)
Rated Power @ 8 Ohm Transformer taps @ 100v	80w aes, 160w program, 320w peak 6,25W, 12,5W, 25W, 50W, 80W
Coverage	100° H x 90° V
Nominal Impedance	8 Ohm L100V
Connectors	4 x barrier terminal blocks
Finish	Black and white finish
Material	ABS, painted mesh aluminium grill
Dimensions	241 x 339 x 195 (mm)
Weight	5 Kg
Fittings	1 x M4 safety, 2 x M4 wall bracket
Accessories	Wall bracket included
Other info	IP66 rating when used with accessory terminal cover

• Dimmensions:



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**

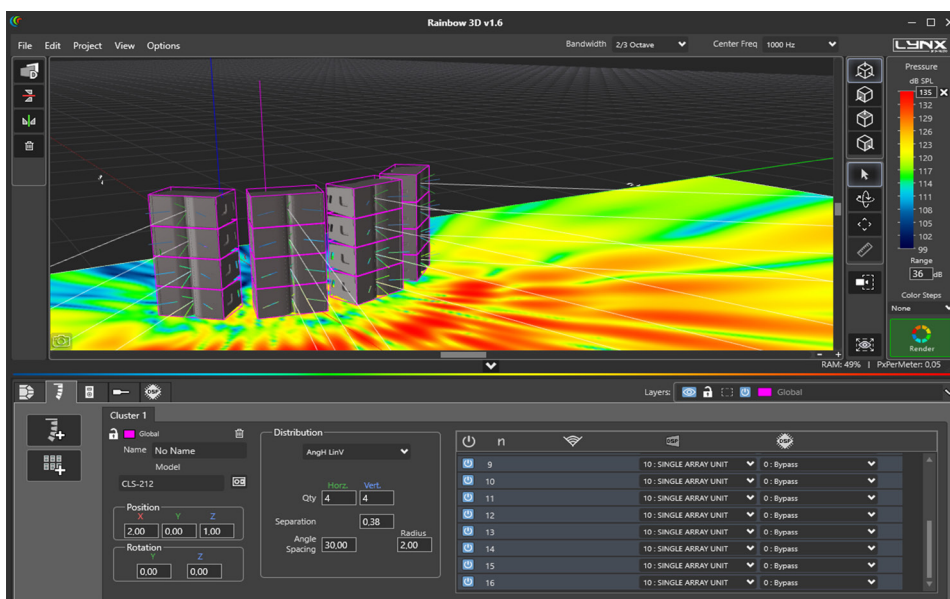
Rainbow 3D has the ability to add DSP processing to the simulation and uses algorithms to control the directivity (beam steering) in columns, without the need to tilt them physically, being able to divide the column into several beams that point to different zones.

- **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 autoplay and a wizard to set up different subwoofer arrangements.



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.



DECLARATION OF CONFORMITY

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

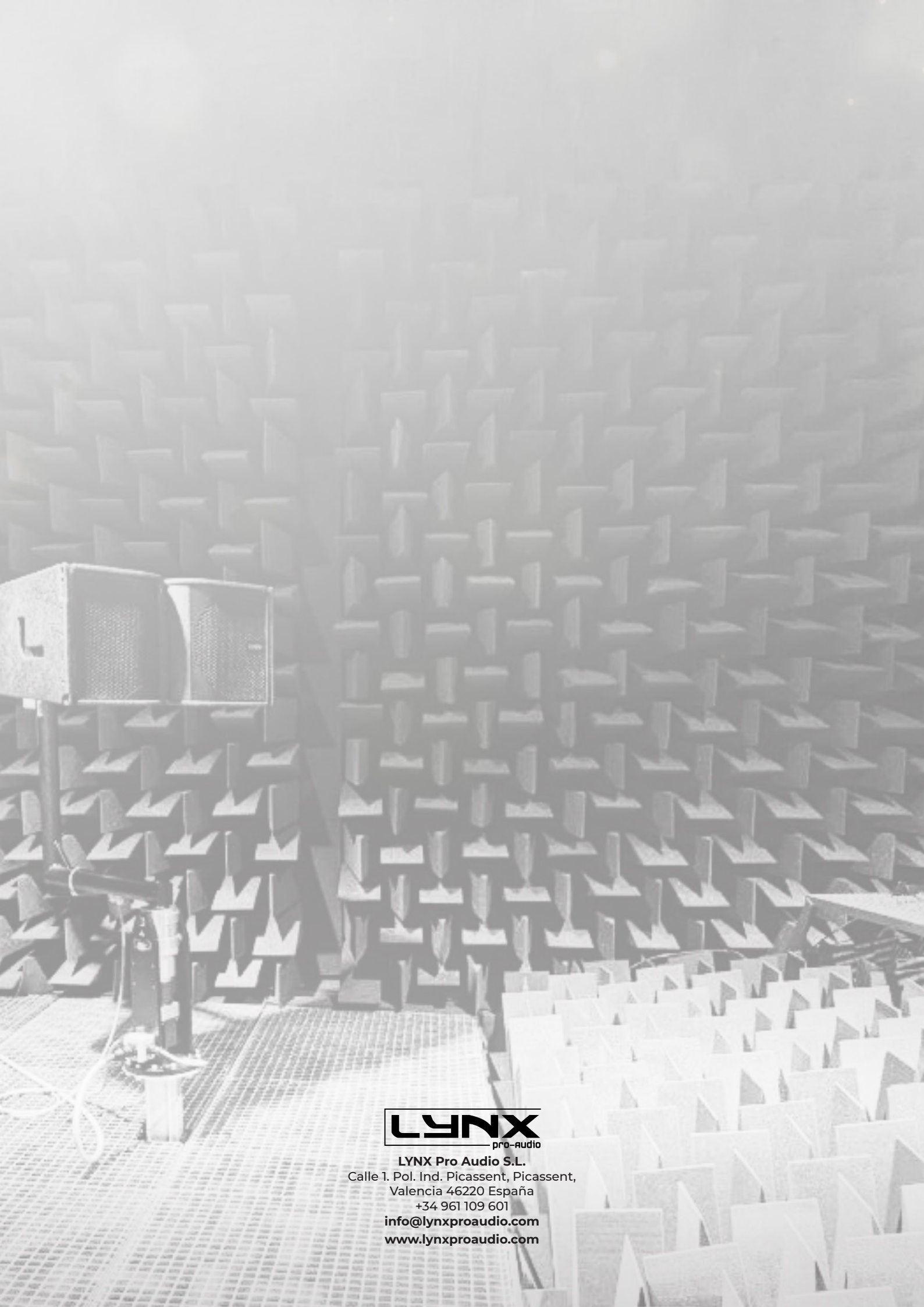
Low Voltage Directive	2006/95/EC
Electromagnetic Compatibility EMC	2004/108/EC
RoHS Directive	2002/95/EC

In accordance with Harmonized European Norms:

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 55103-2:1996	Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 2: Immunity.

ELVA models: ELVA - 4T | ELVA - 6T | ELVA - 8T





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