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› HK Audio Linear 5 112 X Passive 12-inch 2-Way Speaker Instruction Manual

HK Audio LINEAR 5 112 X

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Model: LINEAR 5 112 X

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation of your HK Audio Linear 5 112 X Passive 12-inch 2-Way Speaker. Please read this manual thoroughly before initial use to ensure proper setup, optimal performance, and to prevent damage to the unit or other equipment. Retain this manual for future reference.

The HK Audio Linear 5 112 X is a versatile passive speaker designed for various sound reinforcement applications, including FOH (Front of House) and monitor use. It features a 12-inch woofer and a 1-inch driver, delivering high sound pressure levels and excellent dispersion characteristics.

2. SAFETY INSTRUCTIONS

- Always connect the speaker to an appropriate external amplifier. Ensure the amplifier's power output matches the speaker's power handling capabilities.
- Do not expose the speaker to rain or moisture. This unit is not waterproof.
- Ensure proper ventilation around the speaker to prevent overheating.
- Avoid prolonged exposure to high sound pressure levels, which can cause hearing damage.
- Only use approved cables and connectors.
- Do not attempt to open or service the speaker yourself. Refer all servicing to qualified personnel.

3. UNPACKING AND CONTENTS

Carefully unpack your HK Audio Linear 5 112 X speaker and inspect it for any signs of damage during transit. If you find any damage, contact your dealer immediately.

The package should contain:

- 1 x HK Audio Linear 5 112 X Passive Speaker
- 1 x Instruction Manual (this document)



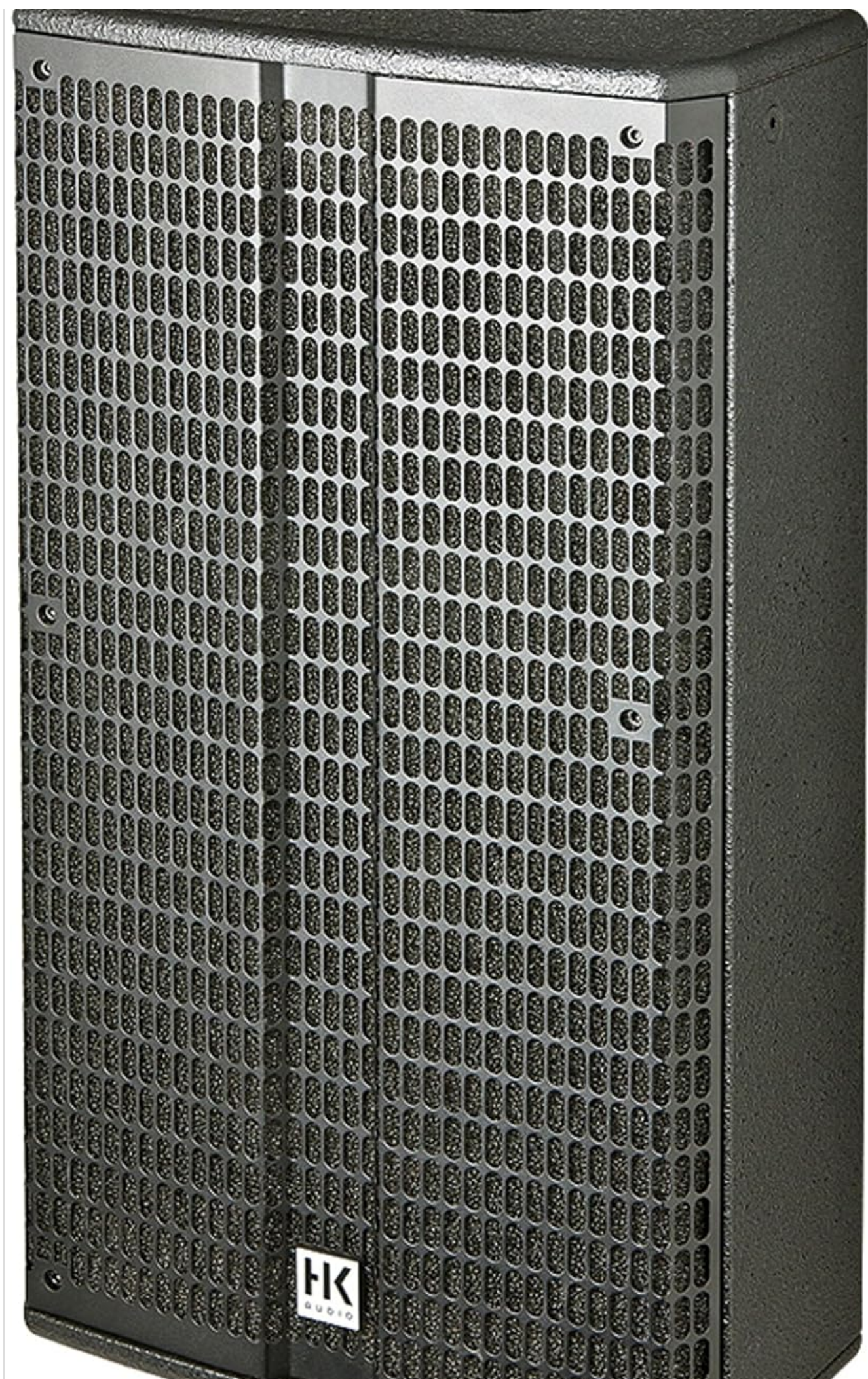




Figure 1: Front view of the HK Audio Linear 5 112 X speaker. This image shows the speaker in its upright position, highlighting the protective grille and the HK Audio logo.

4. SETUP AND CONNECTION

The Linear 5 112 X is a passive speaker and requires an external power amplifier. Ensure your amplifier is capable of delivering sufficient power at the correct impedance (8 Ohms) for optimal performance without clipping.

4.1 Positioning the Speaker

The Linear 5 112 X can be used in various configurations:

- **FOH (Front of House) Speaker:** Mount on a speaker pole using the integrated pole mount, or stack on a subwoofer.
- **Monitor Wedge:** The cabinet design allows for use as a floor monitor, angled towards the performer.



Figure 2: The Linear 5 112 X speaker configured as a floor monitor. This image illustrates the speaker's angled design for stage monitoring applications.



Figure 3: Top-down view of the speaker in monitor wedge orientation. This perspective highlights the compact form factor when used as a stage monitor.

4.2 Connecting to an Amplifier

1. Ensure both the amplifier and the speaker are powered off before making any connections.
2. Locate the input panel on the rear of the Linear 5 112 X speaker. It features two NL4 (Speakon-compatible) connectors.
3. Connect a high-quality speaker cable from the output of your power amplifier to one of the NL4 input connectors on the speaker.
4. If linking multiple speakers, use the second NL4 connector as a pass-through to the next speaker. Ensure the total impedance load on your amplifier remains within its safe operating limits.
5. Once connections are secure, power on your amplifier, then gradually increase the volume.





Figure 4: Rear panel of the Linear 5 112 X speaker. This image displays the NL4 input/output connectors and the model identification plate.

5. OPERATING THE SPEAKER

The Linear 5 112 X is designed for straightforward operation once properly connected to an amplifier and signal source (e.g., mixer). Its passive design means there are no onboard controls for volume or equalization directly on the speaker itself.

- **Signal Source:** Connect your audio source (mixer, audio interface) to the input of your power amplifier.
- **Amplifier Settings:** Adjust the gain and output levels on your power amplifier. Ensure the amplifier is not driven into clipping, which can damage the speaker.
- **Equalization:** Any necessary equalization or sound shaping should be performed on your mixer or external processing units.
- **Dispersion:** The rotatable 60° x 40° CD horn allows for optimized sound dispersion depending on the speaker's orientation (vertical or horizontal). Consult a qualified technician for horn rotation if required.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your speaker.

- **Cleaning:** Use a soft, dry cloth to clean the cabinet. For the grille, a soft brush or vacuum cleaner can remove dust. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the speaker in a dry environment, protected from extreme temperatures and direct sunlight.
- **Inspection:** Periodically check speaker cables for wear and tear. Ensure all connections are secure.
- **Transportation:** Use appropriate covers or flight cases when transporting the speaker to protect it from physical damage.

7. TROUBLESHOOTING

If you encounter issues with your Linear 5 112 X speaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound output	Amplifier off or muted	Check amplifier power and mute status.
	Incorrect cable connection	Verify all speaker and amplifier connections.
	Faulty speaker cable	Test with a known good speaker cable.
	Signal source issue	Ensure audio source is active and sending signal.
Distorted sound	Amplifier clipping	Reduce amplifier gain or mixer output.
	Overdriven input signal	Check for red "clip" indicators on amplifier.
	Damaged speaker component	If distortion persists at low volumes, contact service.
Intermittent sound	Loose cable connection	Secure all connections.
	Faulty cable	Replace speaker cable.

If the problem persists after attempting these solutions, please contact qualified service personnel or your HK Audio dealer.

8. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the HK Audio Linear 5 112 X Passive Speaker:

Feature	Specification
Model Name	LINEAR 5 112 X

Feature	Specification
Speaker Type	Passive, 2-Way, Monitor/FOH
Woofer Diameter	12 Inches
Audio Driver Type	Dynamic Driver
Horn Dispersion	60° x 40° (rotatable CD horn)
Nominal Impedance	8 Ohms (typical for passive speakers of this type)
Speaker Maximum Output Power	500 Watts (RMS, typical for passive speakers of this type, the 1200W in title is peak)
Connectivity Technology	NL4 (Speakon-compatible)
Product Dimensions (L x W x H)	14.57 x 26.3 x 11.81 inches
Item Weight	46.5 pounds (21.1 kg)
Manufacturer	HK Audio
Is Waterproof	FALSE

Note: Specifications are subject to change without notice.

9. WARRANTY INFORMATION

The HK Audio Linear 5 112 X speaker comes with a limited warranty. Please refer to the warranty card included with your product or visit the official HK Audio website for detailed terms and conditions regarding warranty coverage, duration, and service procedures. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, service, or further information regarding your HK Audio Linear 5 112 X speaker, please contact your authorized HK Audio dealer or visit the official HK Audio website. You can typically find contact information and support resources on their website.

Website: www.hkaudio.com (Example link, please verify official website)

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