

Hk Audio LINEAR-SUB-2000

Hk Audio LINEAR-SUB-2000 Passive Subwoofer Instruction Manual

Model: LINEAR-SUB-2000

1. INTRODUCTION

Thank you for choosing the Hk Audio LINEAR-SUB-2000 Passive Subwoofer. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your subwoofer. Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INSTRUCTIONS

To ensure safe operation and prevent damage, observe the following safety precautions:

- **Electrical Safety:** Ensure all connections are made correctly and securely. Disconnect power before making or breaking connections.
- **Placement:** Position the subwoofer on a stable, level surface. Avoid placing it near heat sources, direct sunlight, or in areas with excessive moisture or dust.
- **Ventilation:** Do not obstruct ventilation openings. Adequate airflow is crucial for preventing overheating.
- **Handling:** This unit is heavy (approximately 100.5 lbs). Use appropriate lifting techniques or assistance when moving to prevent injury.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the unit yourself.
- **Compatibility:** Ensure the connected amplifier's power output matches the subwoofer's power handling capabilities to prevent damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Hk Audio LINEAR-SUB-2000 Passive Subwoofer
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

The LINEAR SUB 2000 is a high-performance passive subwoofer designed to complement the LINEAR 5 mid/high units. It features a sixth-order double bandpass design, delivering deep and powerful bass within the 50-120 Hz frequency range. It is equipped with two 12-inch long-throw woofers, each with a 2.5-inch voice coil, a modern cooling system, and a double damper for precise control.



Image 1: Front view of the Hk Audio LINEAR-SUB-2000 Passive Subwoofer, showcasing its robust grille and overall design.

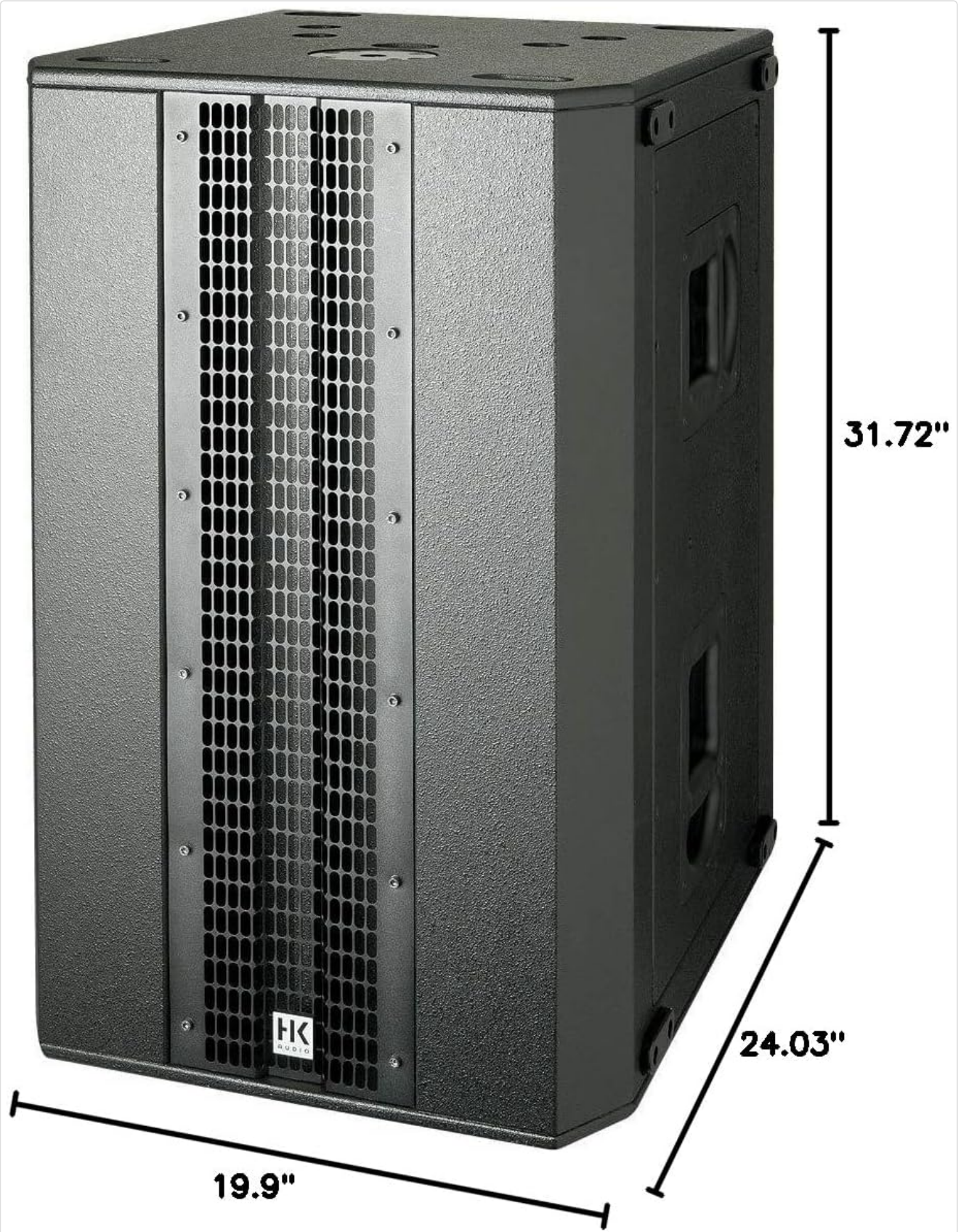


Image 2: Hk Audio LINEAR-SUB-2000 Passive Subwoofer with indicated dimensions: 24.03"D x 19.9"W x 31.72"H.

Key Features:

- Passive subwoofer design
- Equipped with 1 x pole mount M20 for versatile setup
- Power handling RMS: 700 W

- Features 4 x HK Audio MultiGrip carrying handles for easy transport
- Steel front grille, backed with acoustic foam for protection and sound quality

5. SETUP

5.1 Unpacking

1. Carefully remove the subwoofer from its packaging.
2. Inspect the unit for any signs of damage during transit. If damage is found, contact your dealer immediately.
3. Retain the packaging for future transport or storage.

5.2 Placement

Optimal placement of the subwoofer is crucial for sound quality. Consider the following:

- **Room Acoustics:** Experiment with different positions in the room to find the best bass response. Corner placement often enhances bass but can also lead to muddiness.
- **Proximity to Main Speakers:** For seamless integration, place the subwoofer relatively close to your main full-range speakers (e.g., LINEAR 5 mid/high units).
- **Stability:** Ensure the subwoofer is placed on a stable, level surface to prevent vibrations and movement during operation.
- **Pole Mount:** Utilize the integrated M20 pole mount for stacking mid/high units directly on top of the subwoofer, if applicable.

5.3 Connections

The LINEAR-SUB-2000 is a passive subwoofer and requires an external amplifier. Use high-quality speaker cables with NL4 Speakon connectors for reliable and secure connections.

1. **Amplifier Selection:** Connect the subwoofer to an amplifier capable of delivering 700W RMS at the appropriate impedance (typically 4 or 8 ohms, refer to the subwoofer's specific impedance rating). Ensure the amplifier's output power does not exceed the subwoofer's maximum handling capacity.
2. **Speaker Cable:** Connect one end of the NL4 Speakon cable to the output of your amplifier.
3. **Subwoofer Input:** Connect the other end of the NL4 Speakon cable to the input connector on the LINEAR-SUB-2000. Ensure the connector clicks into place securely.
4. **Daisy-Chaining (if applicable):** If connecting multiple subwoofers or other speakers, use the thru-output (if present) on the subwoofer to connect to the next unit. Consult your amplifier and speaker documentation for proper wiring configurations.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Since the LINEAR-SUB-2000 is a passive unit, its power state is controlled by the connected external amplifier.

1. **Power On:** Ensure all connections are secure. Power on your audio mixer or source, then your amplifier. Gradually increase the amplifier's volume.
2. **Power Off:** Decrease the amplifier's volume to minimum, then power off the amplifier. Finally, power off your audio mixer or source.

6.2 Audio Configuration

The LINEAR-SUB-2000 is designed to extend the low-frequency response of your sound system. Proper integration with your main speakers is key.

- **Crossover Settings:** Use your amplifier's or external crossover's settings to define the frequency range sent to the subwoofer (typically 50-120 Hz for this model) and to your main speakers. This prevents frequency overlap and improves clarity.
- **Phase Alignment:** Adjust the phase setting on your amplifier or crossover (if available) to ensure the subwoofer's output is in phase with your main speakers. This helps prevent cancellation at the crossover frequency.
- **Level Matching:** Adjust the subwoofer's level relative to your main speakers to achieve a balanced sound. The subwoofer should blend seamlessly, not overpower the main speakers.

6.3 Control Method

The primary control for this passive subwoofer is through the connected amplifier and any associated audio processing equipment. While the product specifications mention "Voice" as a control method, for a passive subwoofer, this typically refers to the ability to respond to audio signals rather than direct voice commands. All adjustments to volume, crossover, and phase are made via the amplifier or external audio processor.

7. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the subwoofer. Do not use abrasive cleaners, solvents, or waxes. For the grille, a soft brush or vacuum cleaner with a brush attachment can remove dust.
- **Inspection:** Periodically check all cables and connectors for wear or damage. Ensure all screws and fasteners are tight.
- **Storage:** If storing the subwoofer for an extended period, keep it in a dry, temperature-controlled environment, preferably in its original packaging or a protective cover.
- **Avoid Overloading:** Do not continuously operate the subwoofer beyond its rated power handling capacity, as this can lead to driver damage.

8. TROUBLESHOOTING

If you encounter issues with your LINEAR-SUB-2000, refer to the following common troubleshooting steps:

- **No Sound:**
 - Check all cable connections between the amplifier and subwoofer.
 - Ensure the amplifier is powered on and functioning correctly.
 - Verify that the audio source is active and sending a signal.
 - Check the amplifier's volume and mute settings.
- **Distorted Sound:**
 - Reduce the amplifier's volume. Overdriving the subwoofer can cause distortion.
 - Check for damaged cables or loose connections.
 - Ensure the amplifier is not clipping (indicated by a distortion or clip light).
 - Verify crossover settings are appropriate for the subwoofer's frequency range.

- **Weak Bass:**
 - Adjust the subwoofer's level on your amplifier or processor.
 - Check phase alignment between the subwoofer and main speakers.
 - Experiment with subwoofer placement in the room.
 - Ensure the crossover frequency is set correctly to allow sufficient low frequencies to reach the subwoofer.
- **Excessive Hum or Noise:**
 - Ensure all audio cables are properly shielded and away from power cables.
 - Check for ground loops. Try connecting all audio equipment to the same power outlet or power conditioner.
 - Inspect cables for damage.

If the problem persists after trying these steps, contact qualified service personnel or Hk Audio customer support.

9. SPECIFICATIONS

Feature	Specification
Model Name	LINEAR-SUB-2000
Speaker Type	Subwoofer
Special Feature	Subwoofer
Subwoofer Diameter	12 Inches (x2)
Surround Sound Channel Configuration	2.0
Included Components	Subwoofer
Product Dimensions (D x W x H)	24.03" x 19.9" x 31.72"
Item Weight	100.5 Pounds
Is Waterproof	FALSE
Warranty Type	Limited
Number of Items	1
Control Method	Voice (via connected amplifier/processor)
Power Source	Corded Electric (via amplifier)
Audio Driver Type	Dynamic Driver
Style	Professional/Studio
Manufacturer	HK Audio
Speaker Maximum Output Power	700 Watts (RMS)
Connectivity Technology	NL4 Speakon

Audio Output Mode	Stereo (when integrated into a stereo system)
Mounting Type	Floor Standing

10. WARRANTY INFORMATION

The Hk Audio LINEAR-SUB-2000 Passive Subwoofer comes with a Limited Warranty. Specific terms and conditions of the warranty are typically provided at the time of purchase or can be found on the official Hk Audio website. Please retain your proof of purchase for warranty claims.

11. SUPPORT

For further assistance, technical support, or service inquiries, please contact your authorized Hk Audio dealer or visit the official Hk Audio website for contact information and resources.

Website: hkaudio.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question