

EVE AUDIO TS107

EVE Audio TS107 Active Subwoofer Instruction Manual

Model: TS107 | Brand: EVE AUDIO

1. INTRODUCTION

The EVE Audio TS107 ThunderStorm Subwoofer is designed to provide precise and controlled bass frequencies for your audio system. Featuring a passive radiator design, it minimizes low-port noise distortion, delivering a powerful, accurate, and low-distortion sound. This manual provides essential information for the proper setup, operation, and maintenance of your TS107 subwoofer.

The TS107 is equipped with a highly efficient 100W PWM amplifier and a proprietary 6.5-inch woofer, ensuring a frequency response from 36Hz up to 300Hz and a maximum output power of 102 dB SPL at 1 meter. Its detailed controls, including switchable satellite filters, phase switch, and variable subwoofer filter frequencies, allow for precise integration into any room environment.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the TS107 subwoofer. Retain this manual for future reference.

- **Power Source:** Connect the unit only to the type of power supply indicated on the marking label. Ensure the voltage is correct for your region.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Ensure adequate space around the unit for proper airflow.
- **Water and Moisture:** Do not use this apparatus near water or expose it to dripping or splashing.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Grounding:** This product must be grounded. Do not defeat the safety purpose of the polarized or grounding-type plug.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is

damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- **Cleaning:** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



Figure 2.1: Rear panel of the TS107 showing safety warnings and power input. Note the caution against opening the rear panel due

3. PRODUCT OVERVIEW AND COMPONENTS

The EVE Audio TS107 is a compact yet powerful active subwoofer designed for accurate bass reproduction in studio and home audio environments. It features a unique passive radiator design for extended low-frequency response without port noise.

3.1 Key Features

- **Woofers:** 6.5-inch proprietary woofer for precise bass.
- **Passive Radiator:** 6.5-inch passive radiator for extended low-frequency response and reduced port noise.
- **Amplifier:** Highly efficient 100W PWM amplifier.
- **Frequency Range:** 36Hz - 300Hz (-3dB).
- **Maximum SPL:** 102dB @ 1m.
- **Controls:** System Volume, Subwoofer Volume, Switchable Satellite Filters (Full Range, 80Hz), Phase Switch (0°, 180°), Variable Subwoofer Filter Frequencies (60-140Hz).
- **Inputs/Outputs:** Balanced XLR In/Out (Stereo In and Out, LFE In, LFE/Sub Out), Unbalanced input for SC203.

3.2 Front Panel Controls



Figure 3.1: Front view of the TS107 highlighting the main control knobs. The top knob controls System Volume and various settings, while the bottom knob controls Subwoofer Volume.

- **System Volume / Setting Knob (Top):** This multi-function knob allows adjustment of the overall system volume and access to various settings such as satellite filter, phase, and subwoofer filter frequency.

- **Subwoofer Volume Knob (Bottom):** Dedicated control for the output level of the subwoofer.

3.3 Rear Panel Connections



Figure 3.2: Rear panel of the TS107, detailing the balanced XLR inputs (LFE In, R In, L In), balanced XLR outputs (LFE Out, R Out,

L Out), unbalanced input, power switch, and AC power inlet.

- **XLR Inputs (L/R, LFE):** For connecting balanced audio signals from your mixer or audio interface.
- **XLR Outputs (L/R, LFE/Sub):** For passing the audio signal to your satellite speakers or other audio equipment.
- **Unbalanced Connection (for SC203):** If connecting EVE Audio SC203 speakers, use the dedicated unbalanced input. Refer to the SC203 manual for specific connection details.
- **Power Connection:** Connect the supplied AC power cord to the AC inlet on the rear panel of the TS107, then plug the other end into a grounded wall outlet.

3.4 Passive Radiator





Figure 3.3: Bottom view of the TS107, revealing the 6.5-inch passive radiator. This design element contributes to the subwoofer's extended low-frequency response without the typical port noise associated with ported designs.

The TS107 utilizes a passive radiator instead of a traditional bass reflex port. This design allows for a deeper and more controlled bass response, free from air turbulence noise often found in ported enclosures. The passive radiator works in conjunction with the active woofer to enhance low-frequency output efficiently.

4. SETUP

4.1 Placement

The placement of your subwoofer significantly impacts its performance. Consider the following:

- **Room Acoustics:** Bass frequencies are heavily influenced by room dimensions and materials. Experiment with different positions to find the optimal sound.
- **Corner Placement:** Placing the subwoofer in a corner can increase bass output, but may also lead to boomy or uneven bass.
- **Wall Proximity:** Placing the subwoofer close to a wall generally reinforces bass.
- **Listening Position:** The subwoofer should ideally be placed in a position that provides smooth bass response at your primary listening position.
- **Ventilation:** Ensure adequate space around the unit for proper ventilation, especially at the rear panel.



Figure 4.1: Angled view of the TS107, illustrating its compact form factor suitable for various room placements.

4.2 Connections

Before making any connections, ensure the TS107 and all connected audio equipment are powered off.

1. **Connect Audio Source:** Use balanced XLR cables to connect the outputs of your audio interface or mixer to the L and R XLR Inputs on the TS107 rear panel. For LFE (Low-Frequency Effects) input, use the dedicated LFE In.
2. **Connect Satellite Speakers:** If using satellite speakers, connect the L and R XLR Outputs of the TS107 to the inputs of your satellite speakers. This allows the TS107 to manage the crossover frequencies.
3. **Unbalanced Connection (for SC203):** If connecting EVE Audio SC203 speakers, use the dedicated unbalanced input. Refer to the SC203 manual for specific connection details.

4. **Power Connection:** Connect the supplied AC power cord to the AC inlet on the rear panel of the TS107, then plug the other end into a grounded wall outlet.

Note: Always use high-quality balanced cables for optimal performance and to minimize noise.

5. OPERATING THE TS107

5.1 Powering On/Off

After all connections are made, you can power on your system. It is recommended to power on your subwoofer last and power it off first to prevent any thumps or pops.

- **To Power On:** Flip the power switch on the rear panel to the 'ON' position.
- **To Power Off:** Flip the power switch on the rear panel to the 'OFF' position.

5.2 Adjusting Controls

The TS107 offers comprehensive controls to integrate seamlessly with your main monitors and room acoustics.

- **Subwoofer Volume:** Use the dedicated "Subwoofer Volume" knob on the front panel to adjust the output level of the subwoofer. Start with a low setting and gradually increase until the bass blends well with your main speakers.
- **System Volume / Setting Knob:** This knob controls the overall system volume. Pressing and holding this knob typically allows access to advanced settings:
 - **Satellite Filters:** Switch between "Full Range" (no high-pass filter applied to satellite outputs) and "80Hz" (high-pass filter at 80Hz applied to satellite outputs). The 80Hz setting is commonly used in studio setups.
 - **Phase Switch (0°, 180°):** Adjust the phase of the subwoofer relative to your main speakers. Experiment with both settings to find the one that provides the most coherent bass response at your listening position. This helps prevent phase cancellations.
 - **Variable Subwoofer Filter Frequencies (60-140Hz):** This control sets the upper frequency limit for the subwoofer. Adjust this to match the low-frequency cutoff of your main speakers, ensuring a smooth transition between the subwoofer and satellites.

Tip: For optimal integration, use test tones or familiar music to fine-tune the subwoofer's volume, phase, and crossover frequency. The goal is for the subwoofer to disappear into the soundstage, providing a natural extension of your main speakers' bass response.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your EVE Audio TS107 subwoofer.

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the exterior surfaces of the subwoofer. For stubborn marks, a slightly damp cloth can be used, but ensure no liquid enters the unit. Do not use abrasive cleaners, waxes, or solvents.
- **Dust:** Regularly dust the ventilation openings to prevent accumulation, which can impede airflow and lead to overheating.
- **Environment:** Keep the subwoofer in a clean, dry environment, away from direct sunlight, excessive heat, and moisture.
- **Cables:** Periodically check all audio and power cables for any signs of wear or damage. Replace damaged cables immediately.

7. TROUBLESHOOTING

If you encounter issues with your TS107 subwoofer, refer to the following common problems and solutions before contacting support.

Problem	Possible Cause / Solution
No Sound from Subwoofer	Ensure the power cord is securely connected and the power switch is ON. Check the audio input cables are correctly connected to the TS107 and the source. Verify the Subwoofer Volume knob is not set to minimum. Check the audio source (mixer, interface) is sending a signal.
Distorted or Boomy Bass	Reduce the Subwoofer Volume. Adjust the Variable Subwoofer Filter Frequency to better match your main speakers. Experiment with the Phase Switch (0°/180°) to correct phase issues. Relocate the subwoofer to a different position in the room to reduce room mode issues.
Humming or Buzzing Noise	Ensure all cables are securely connected. Check for ground loops. Try plugging the subwoofer and other audio equipment into the same power strip. Use balanced XLR cables if possible. Move audio cables away from power cables.
Subwoofer Overheating	Ensure adequate ventilation around the unit. Do not block the rear panel. Reduce the operating volume if consistently running at very high levels.

8. SPECIFICATIONS

Detailed technical specifications for the EVE Audio TS107 Active Subwoofer.

Feature	Detail
Model Name	TS107
Speaker Type	Subwoofer
Woofer Diameter	6.5 Inches (165mm)
Passive Radiator	6.5 Inches (165mm)
Free-field Frequency Range (-3dB)	36Hz - 300Hz
Maximum SPL @ 1m	102dB
Output Power (Woofer)	100W
Connectivity Technology	XLR (Balanced), Unbalanced

Feature	Detail
Audio Output Mode	Stereo
Control Method	Remote
Product Dimensions (D x W x H)	11.81"D x 9.06"W x 13.98"H
Item Weight	1 Pounds
Power Source	Corded Electric
Manufacturer	EVE AUDIO
Date First Available	March 21, 2013



Figure 8.1: The EVE Audio TS107 Subwoofer, a compact and powerful unit designed for accurate bass reproduction.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The EVE Audio TS107 Subwoofer comes with a **Limited Warranty**. Please refer to the warranty card included with your product or visit the official EVE Audio website for detailed terms and conditions regarding warranty coverage, duration, and claims procedures.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact EVE Audio customer support. Contact information can typically be found on the official EVE Audio website or in the product packaging.

Manufacturer: EVE AUDIO