

AUDEOSB110P

CABINET LOUDSPEAKERS

Self-powered Sub-woofer Cabinet



USER MANUAL



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1. IMPORTANT REMARK



WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of “” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: An apparatus with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

2. IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the apparatus during lightening sorts or when unused for long periods of time.
13. Refer all servicing to qualified 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.
14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket. For this reason, it always shall remain easily accessible.
15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
16. The marking information is located at the bottom of the unit.
17. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

NOTE: *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*



WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animal or objects due to failure to comply with the warnings above.



3. IMPORTANT NOTE

Thank you for choosing our Ecler **AUDEOSB110P self-powered sub-woofer cabinet!**

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorised Technical Services.

Ecler **AUDEOSB110P** comes with a **3-year warranty**.

4. INTRODUCTION

The AUDEO Series acoustic cabinets is the result of a profound analysis of present and future needs for playing music and announcements. Some of the most evident and direct applications for the AUDEO cabinet are shops, department stores, schools, conference rooms, hotels, industries, offices, museums, halls, hospitals, leisure areas, etc.

In some of these applications, you must also have an element to reinforce the lower end of the audible spectrum, i.e., the lower frequencies or sub-bass. The AUDEO SB110P self-powered subwoofer is ideal for these cases.

5. CONNECTION AND START UP

The AUDEO SB110P has two unbalanced RCA audio inputs, labelled INPUT L and INPUT R. You can send them a mono or stereo line-level signal: the SB110P internally works on mono signals and, therefore, adds L and R input signals to obtain a valid signal to work on. You can link a second AUDEO SB110P unit or other auxiliary equipment using L and R STACK outputs, also on RCA connectors. L and R STACK output signal is a copy of the original L and R INPUT signal.

The unit's AC power supply uses the supplied IEC lead, and the unit is turned on/off by the ON/OFF switch. The "ON" LED is located on the left of the input jacks; it lights up in green when the unit is on and in orange after entering low consumption (standby) mode, and this automatically happens after detecting no input signal for a few minutes. The unit also automatically returns to "ON" mode (green LED) when it re-detects an input signal.



The AUDEO SB110P control panel also features the following user controls:

- PHASE: 0° / 180°. This switch allows you to invert the phase of the input signal, so that output signal phase can be aligned with signals produced by the other system speakers.
- VOLUME: Control for adjusting the input signal attenuation. The 0dBV central position corresponds to the nominal equipment sensitivity.

An internal low-pass filter is incorporated to the AUDEO SB110P for the unit to work on a selected sub-bass frequency range particularly suitable for combination with other AUDEO series speakers.

6. PLACEMENT AND INSTALLATION

Please observe the following general rules:

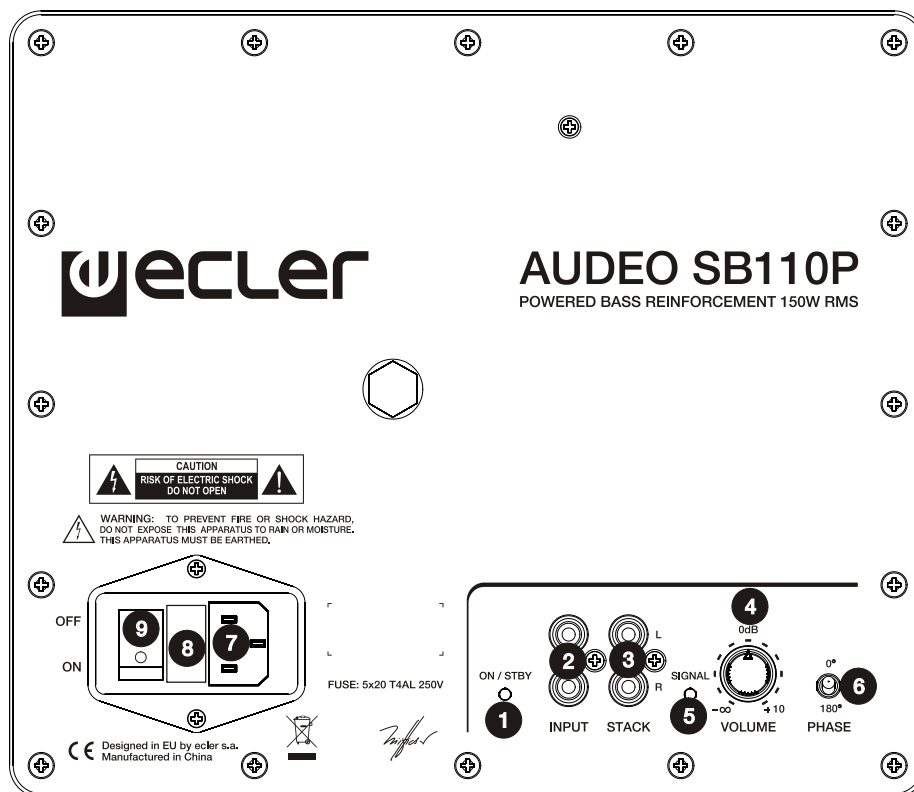
- As a subwoofer, the AUDEO SB110P has been designed to be installed in discrete places. Low frequencies are considered to be non-directional so the AUDEO SB110P can be perfectly placed in corners, under a table, behind curtains... that will not notably affect its output. Generally, it should be known that placing it close to various surfaces will increase its efficiency. Consequently, the sound pressure level will be higher if you place the speaker on the ground in a corner rather than just beside a wall and even more that in the centre of a room.
- There is no rule governing the number of mid/high speakers per subwoofer. It mainly depends on the subwoofer location and on the room acoustics. Thus, in a highly reflective room, a subwoofer may even damage intelligibility while several subwoofers could be necessary in a room with highly absorptive surfaces.
- Always place the speakers on solid and firm surfaces.
- Adapt the sound pressure levels to the diffusion needs.



7. FUNCTION LIST

1. Visual indication for power, ON/STBY
2. Line input, INPUT L / R
3. Output to other amplifiers, STACK L / R
4. Input attenuator, VOLUME
5. SP/CLIP Indicator, SIGNAL
6. Selector switch, PHASE
7. Mains socket
8. Fuse holder
9. On switch, ON / OFF

8. FUNCTION DIAGRAM



9. TECHNICAL CHARACTERISTICS

AUDEOSB110P

System	
Effective frequency range ¹	40Hz
Power handling	150 W RMS / 600 W Peak
Sensitivity ²	90 dB (1W/1m)
Maximum SPL ³	112 dB continuous / 118 dB peak
Recommended amplifier power	300 W RMS
Transducers	
Ways	1 way sub-woofer
Driver	10" woofer
Filters	
Low-pass filter selector	150Hz/18dB oct.
Physical	
Mounting system	Cabinet
Finished colour	Black (RAL 9005)
Dimensions (WxHxD)	310 x 505 x 420 mm / 12.2 x 19.9 x 16.54 in.
Weight	16.75 kg / 36.93 lb
Powered	
Power	150 W RMS / 600 W Peak
Audio inputs	RCA inputs with mono conversion
Audio outputs	RCA stack outputs
Input sensitivity	0dBV 1V >1kW
LED indicators	SP, Power ON, Stand-by
Mains	AC 115V/230V 50-60Hz
Power consumption (pink noise, 1/8 power)	107VA
Power consumption (pink noise, 1/3 power)	152VA
Power consumption (max.power)	237 VA

¹10dB below the sound pressure level at specified sensitivity

²Measured on-axis, far field and referenced to 1 meter by inverse square law. Average from 100 Hz to 10 kHz.

³Calculated from sensitivity and power handling specifications, exclusive of power compression



All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

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