

EDGE-SB10P21

LOUDSPEAKERS

Subwoofers



USER MANUAL



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ENVIRONMENT

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1. PRECAUTIONS

1.1 Important Notice



WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The flashing light with an arrowhead symbol inside an equilateral triangle on it is intended to alert the user of the presence of non-insulated “dangerous voltage” within the enclosure, which might be of sufficient magnitude to pose a risk of electric shock to users.



The exclamation mark within an equilateral triangle is intended to alert the user of the requirement for important operating and maintenance (servicing), for which instructions may be found in the literature accompanying the appliance.

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

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

WARNING: A device with Class I manufacturing ought to be connected to a mains socket outlet with a protective earthing connection.



WARNING: Ecler products have a long lifetime of more than 10 years. This product must never be discarded as unsorted urban waste, but must be taken to the nearest electrical and electronic waste treatment centre.

1.2 Key Safety Directions

1. Read the following directions.
2. Keep the following directions.
3. Observe all warnings.
4. Follow all instructions.
5. Do not use this device in proximity to water.
6. Clean only with a 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 devices (including amplifiers) that may release heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades, with one being 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, contact a qualified electrician for a 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 of exit from the device.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the device during lightning storms or when unused for long periods.
13. Refer all servicing to qualified personnel. Servicing is required when the device has been damaged in any way, such as power supply cord or plug damage, liquid spillage or objects onto the device, the device has been exposed to rain or humidity, 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, therefore, it should always remain easily accessible
15. Equipment is connected to a socket-outlet with an earthing connection by means of a power cord.
16. The marking information is located at the top/rear of the unit.
17. The device shall not be exposed to dripping or splashing liquids, and no liquid-filled objects, such as a filled up glass, shall be placed on top of the device.

1.3 Cleaning Directions



Clean the unit with a soft, dry clean cloth or slightly wet with water and neutral liquid soap only, then dry it with a clean cloth. Be careful that water never gets into the unit through any hole. Never use alcohol, benzine, solvents or abrasive substances to clean this unit.

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.



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2. WARRANTY & ENVIRONMENT

Thank you for choosing our Ecler EDGE-SB10P21!

We greatly value your trust.

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its **contents before any connecting takes place** in order to make the best use of this equipment, as well as to get the best performance from it.

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

All ECLER products are covered by warranty, please refer to www.ecler.com or the warranty card included with this product for the period of validity and conditions.



Ecler is truly committed with the environment and planet sustainability, energy saving and CO₂ emission reduction. Recycling materials and using non-contaminant components are also top priorities in our green crusade.

Ecler has deeply evaluated and analyzed the environmental impacts of all the processes involved in the production of this product, including packaging, and has alleviated, reduced and/or compensated for them.

3. PACKAGE CONTENTS

- 1x EDGE-SB10P21 unit.
- 4 x Rubber feet.
- 1 x Vertical floor support.
- Wall support system (screws not included).
- 1 x EU AC Voltage cord (3x1.5m).
- 1 x RCA-RCA Stereo Interconnection cable.
- Euroblocks .
- First Steps Guide.
- Warranty card.



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4. DESCRIPTION & FEATURES

EDGE-SB10P21 is an ultra-compact, powered 2.1 device that combines a powered subwoofer and a stereo amplifier for full-range external speakers or "satellites" within a single enclosure. It also includes several additional components to control and process the audio signal. This device delivers powerful bass sound in a compact size, making it ideal for small spaces such as underneath restaurant seats or wall-mounted in a corner using the included bracket.

4.1 Main Features

- 10" powered subwoofer integrated into the enclosure, 120 WRMS 10" driver.
- 2x 100 W RMS @4Ω amplified power output.
- Euroblock connectors for external speakers ("satellites").
- Stereo audio input with RCA and Euroblock connectors.
- Adjustable subwoofer cut-off frequency: low-pass filter frequency between 50Hz to 250Hz.
- Selectable Auto-standby.
- Subwoofer phase switch.
- MASTER VOL and SUB VOL level controls.
- Available in black colour (RAL9005).
- Several installation options (flat tabletop, underneath seats, vertical, wallmounted with the included bracket...).
- [EASE files available.](#)



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5. POSITIONING & INSTALLATION

5.1 Positioning

Please observe following general rules:

 Always place the speakers on solid and firm surfaces.

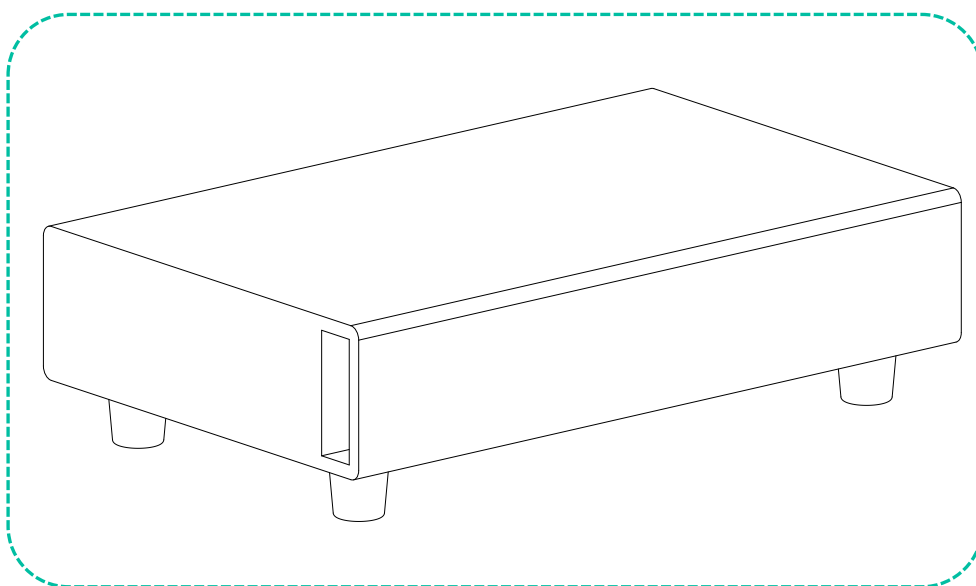
- As a subwoofer, the EDGE-SB10P21 has been designed to be installed in discrete places. Low frequencies are considered to be non-directional so the EDGE-SB10P21 can be perfectly placed in corners, under a table, behind curtains... that will not notably affect its output. Generally, it should be known that placing it close to various surfaces will increase its efficiency.

 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.
- Adapt the sound pressure levels to the diffusion needs.

5.2 Installation

5.2.1 Horizontal Floor Mounting



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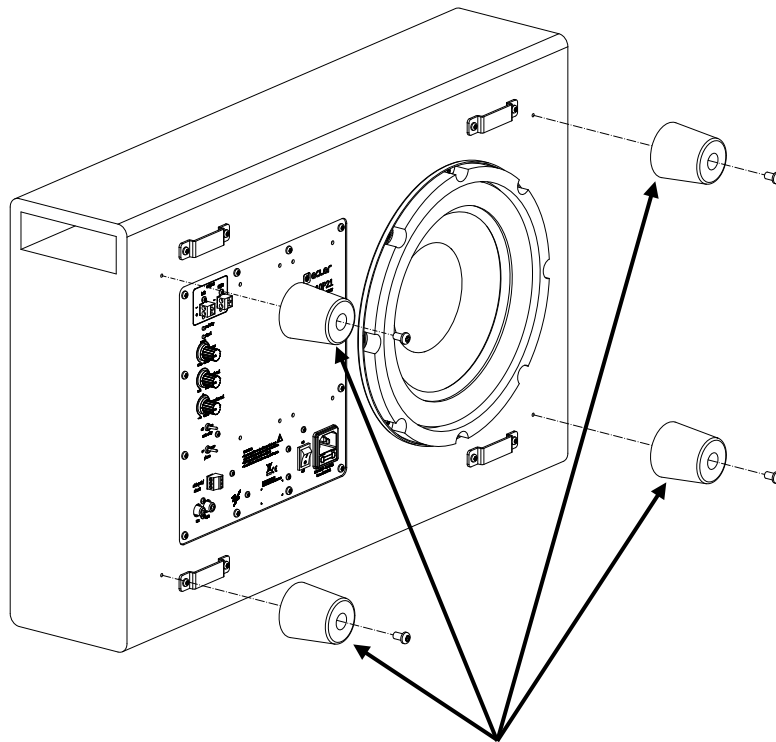
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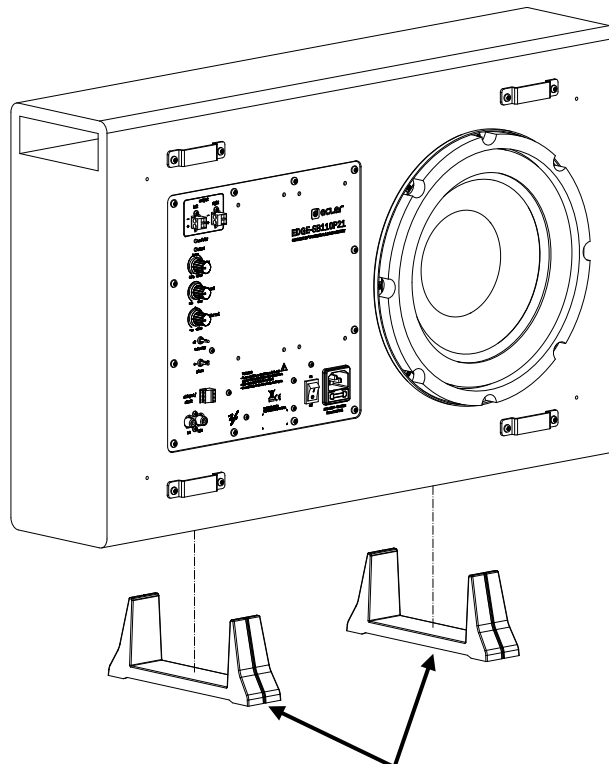
5.2.2 Vertical Floor Mounting

1



Remove the four-rubber feet

2



Insert the 2 supplied floor supports



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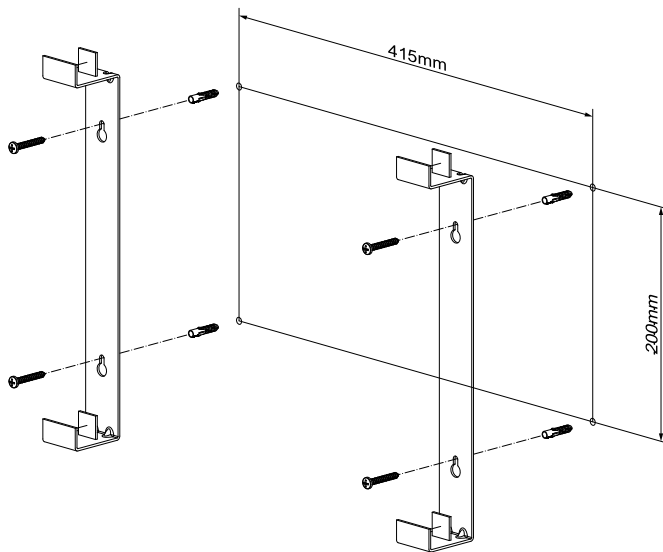
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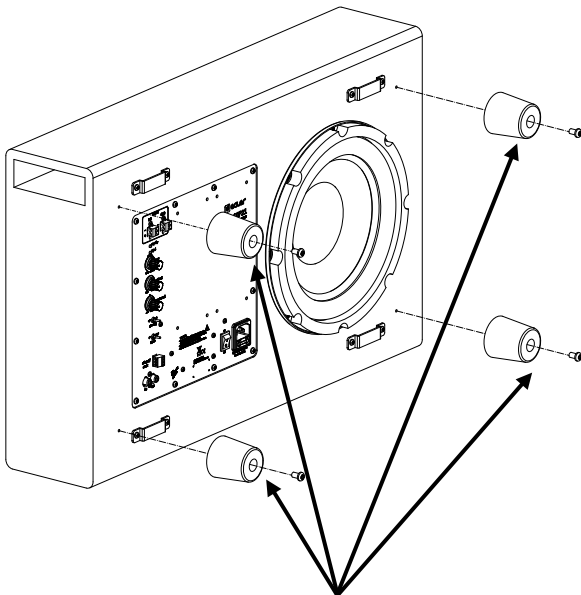
5.2.3 Wall Mounting

1



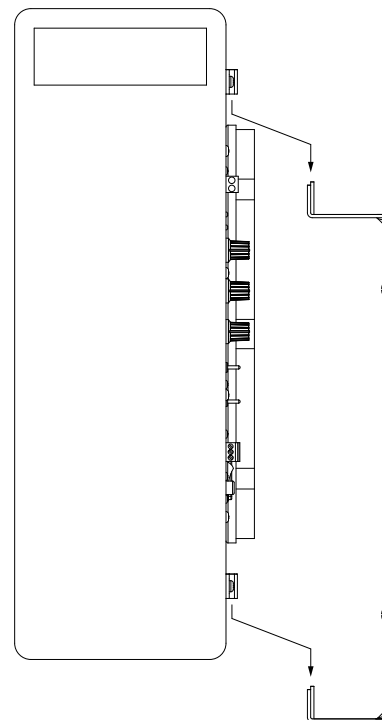
Fix the 2 wall brackets to the wall
(dowels and screws not supplied)

2



Remove the four-rubber feet

3



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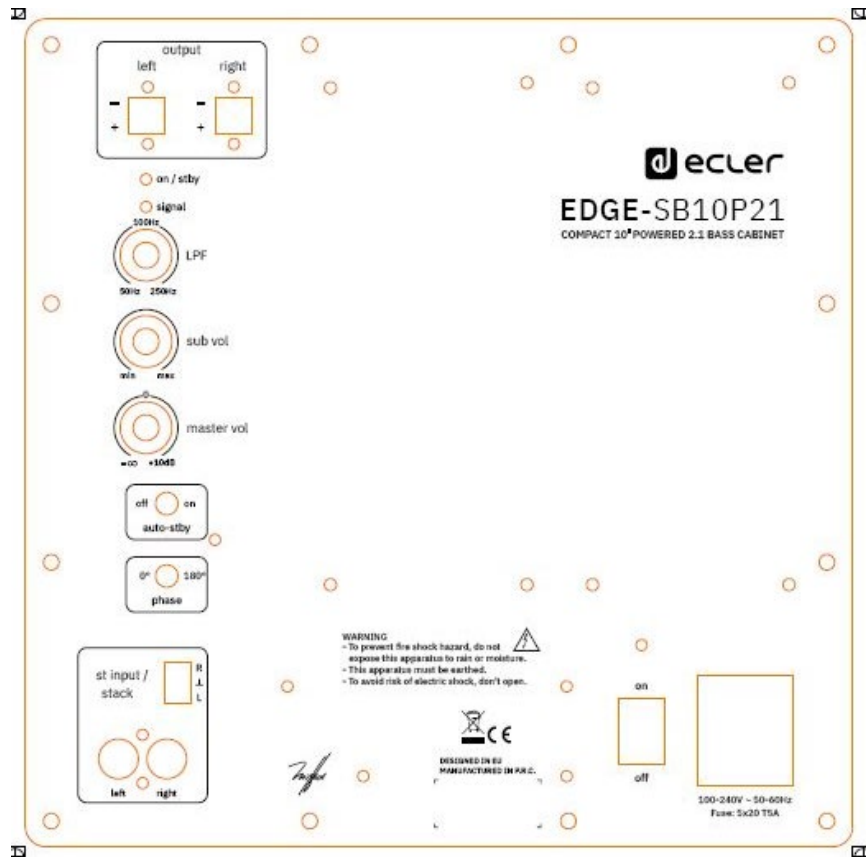
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6. CONNECTIONS & START UP



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 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.

For the **audio input**, the EDGE-SB10P21 has **two unbalanced RCA connectors, labelled INPUT L and INPUT R**, and a **stereo 3-pin Euroblock connector (ground, L-left, R-right)**. Depending on your available sound source and wiring, use one of these connectors to input a stereo line level signal. **Thus, the EDGE-SB10P21 will manage to:**

- Send a mono signal to the integrated powered subwoofer (L + R summation of the two channels) after filtering by the internal low-pass filter, in order to have a correct processing of the low frequency band
- Send an amplified version of the input signal to the stereo amplifier in order to feed the system satellites via the STEREO AMP OUT (LEFT and RIGHT OUTPUT) connectors.

 **The available RCA or Euroblock input connector can be used to link a second EDGE-SB10P21 unit or auxiliary equipment.**

The EDGE-SB10P21 also offers the following user controls on its control panel:

- **PHASE: 0° / 180°:** This switch allows to reverse the phase of the signal incoming into the integrated subwoofer, so that the signal it produces can be aligned with the signals produced by the other loudspeakers of the system.
- **AUTO-STBY:** This switch allows you to activate/deactivate the auto standby function.
- **MASTER VOL:** Adjusts the input signal attenuation (audible volume). The centre position (0 dBV) corresponds to the nominal sensitivity of the device; at maximum position, it provides 10 dB of extra gain. This control affects the overall or MASTER volume of the unit, that is both the integrated bass channel, and the signal delivered to the stereo amplifier output.
- **SUB VOL:** relative volume of the integrated subwoofer with respect to the overall volume of the unit as determined by the MASTER VOL control.
- **LPF:** Continuous adjustment of the cutoff frequency between 50 and 250 Hz for the low-pass filter that affects the integrated subwoofer.



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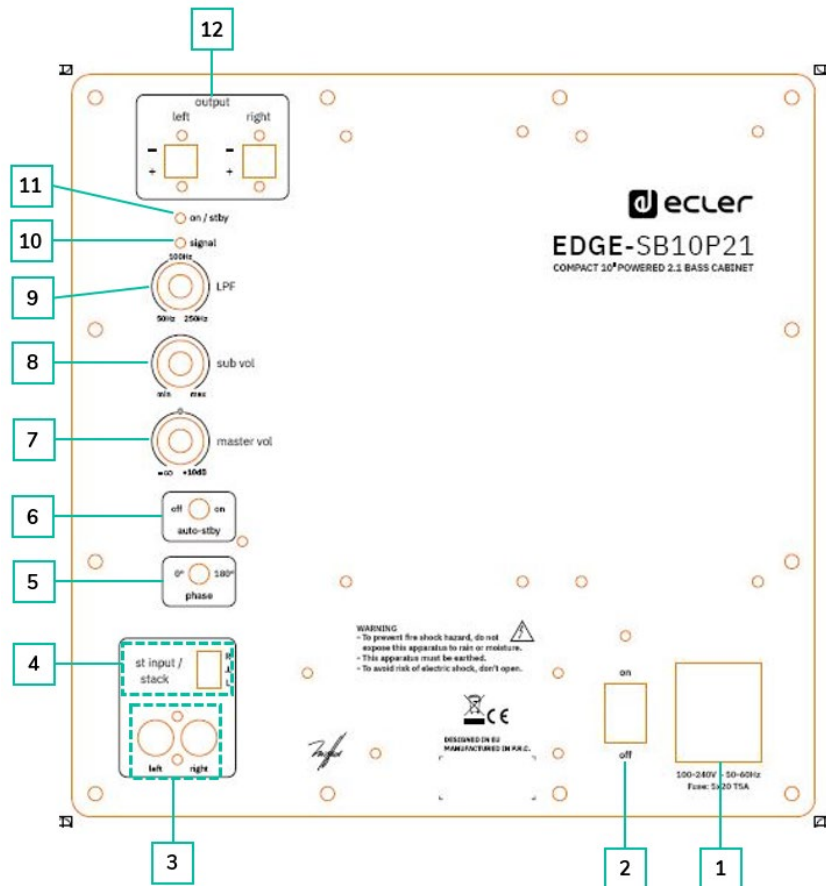
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7. PANEL FUNCTIONS

7.1 Rear Panel



- | | |
|---|---|
| 1. Mains socket. | 7. MASTER VOL control. |
| 2. Power switch, ON/OFF. | 8. SUB VOL control. |
| 3. RCA input line. | 9. Low Pass Frequency selector, LPF. |
| 4. Screwable terminal to other amplifiers, STACK. | 10. SIGNAL indicator light. |
| 5. Selector switch, PHASE. | 11. ON/STBY, on or standby indicator light. |
| 6. Selector switch, Auto Standby On /Off. | 12. OUTPUT LEFT/ RIGHT amplified output. |

8. TECHNICAL DATA

8.1 Technical Specifications

EDGE-SB10P21

SYSTEM		
Effective Freq. Range ¹	23Hz-465Hz (-10dB)	
Power handling	120W RMS / 480W Peak	
	EXT.OUT: 4 Ω: 2*100W RMS, 8 Ω: 2*50W RMS	
Sensitivity ²	95dB (1W/1m)	
Maximum SPL ³	116dB continuous / 122dB peak	
TRANSDUCERS		
Ways	Subwoofer	
Low frequency driver	10" woofer	
Nominal impedance	4Ω-8Ω	
FILTERS		
Low-Pass filter selector	50Hz to 250Hz variable low pass filter	
Crossover filter	No	
PHYSICAL		
Connection type	RCA & Euro Terminal Block	
Installation options	Surface, Wall mounting	
Enclosure material	MDF	
Mounting system	Wall support system & Supports-legs	
Operating temperature	Min: -20°C ; -4°F	
	Max: 70°C ; 158°F	
Operating humidity	<85% HR	
Storage temperature	Min: -20°C ; -4°F	
	Max: 70°C ; 158°F	
Storage humidity	<90% HR	
Included accessories	Wall support system / Supports-legs / RCA cables / Euroblocks	
Cable length	1.5m	
Finished colour	Black (RAL 9005)	
Dimensions (WxHxD)	635 x 181 x 414 mm / 25 x 7.13 x 16.30 in.	
Weight	10.35 Kg / 22.82 lb	
Pieces per box	1 piece	
Shipping dimensions (WxHxD)	760 x 260 x 525 mm / 29.92 x 10.24 x 20.67 in.	
Shipping weight	12.9 Kg / 28.44 lb	
POWERED		
Power	120W RMS / 480W Peak	
Audio inputs	RCA	
Audio outputs	Euro Terminal Block	
Powered outputs	4 Ohm: 2*100W RMS, 8 Ohm: 2*50W RMS	
THD + Noise	≤0.1%	
Signal Noise Ratio	>80dB	
Input sensitivity	- 10dB	
CMRR	Line	
Volume control	-∞-+10dB	
Tone control	50Hz-250Hz	
LED Indicators	ON/STBY: Green on working status, Orange on Standby status	
	SIGNAL: Green when signal is received	
Mains	110-240VAC 50/60Hz	

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Auto standby time	180 seg
Auto standby threshold	-45dB
Power consumption	0.6 kWh
Power consumption standby	<13W

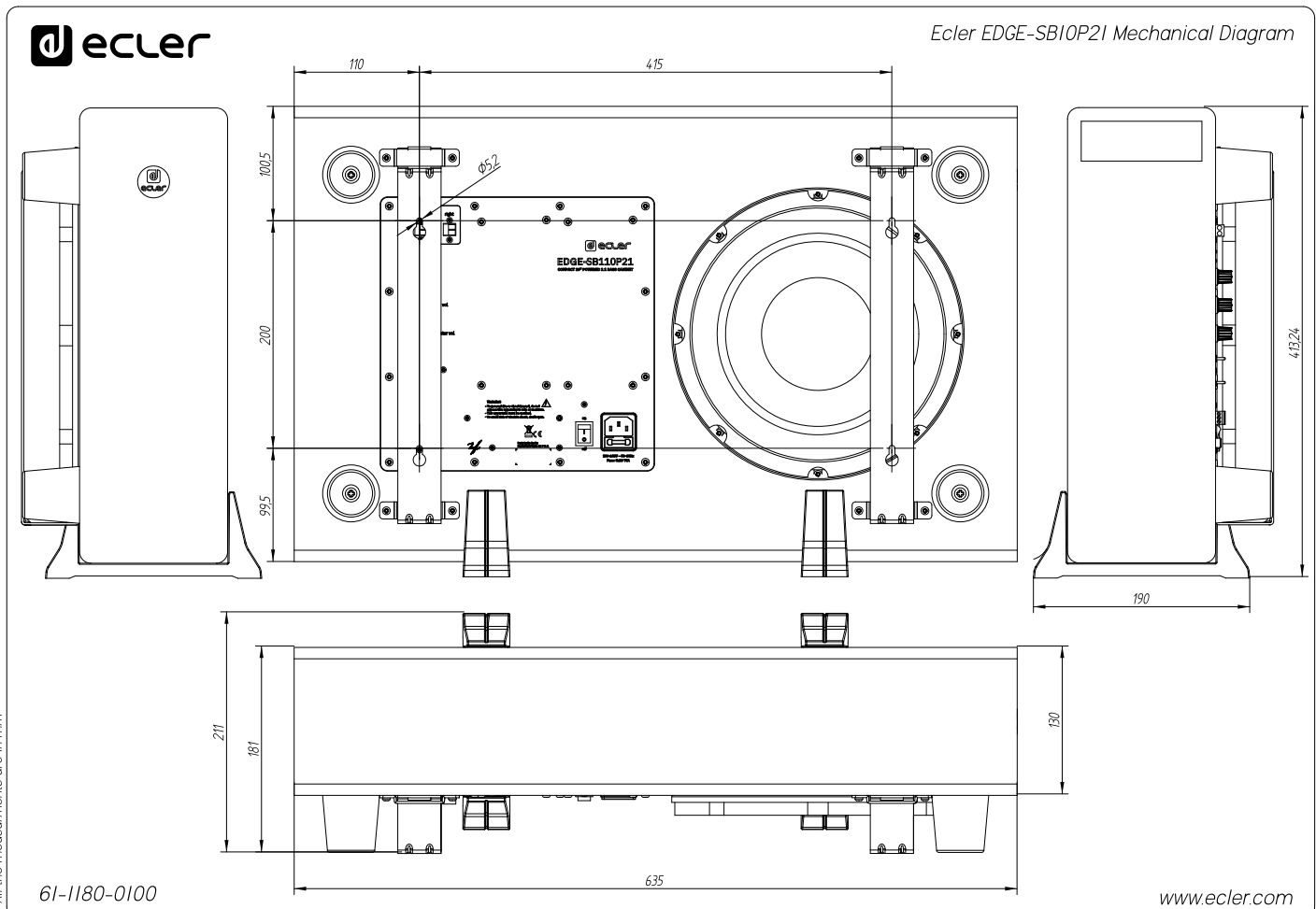
¹ Below the sound pressure level at specified sensitivity

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

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

8.2 Mechanical Diagram

All measurements are in mm.



All the measurements are in mm



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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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