

ELURA

COMMERCIAL

OWNER'S MANUAL & INSTALLATION GUIDE



AMP500/1.2

SUBWOOFER AMPLIFIER



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION
RISQUE D'ÉLECTROCUTION
NE PAS OUVRIR



WARNING:

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

AVIS:

Pour réduire le risque d'incendie ou de choc électrique, ne pas exposer cet appareil sous la pluie et l'humidité.

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.

L'appareil ne doit pas être exposé aux écoulements ou aux éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur l'objet.



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.

Le symbole de l'éclair fléché dans un triangle équilatéral, est destiné à alerter l'utilisateur de la présence d'une "tension dangereuse" dans le boîtier du produit qui peuvent être des ampleur suffisante pour constituer un risque d'électrocution aux personnes.



This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Ce symbole est destiné à alerter l'utilisateur de la présence d'opération et de maintenance (entretien) dans la documentation accompagnant l'appareil.

Important Safety Instructions

1. Read these Instructions.
Lisez ces instructions.
2. Keep these Instructions.
Conservez ces instructions.
3. Heed all Warnings.
Respectez tous les avertissements.
4. Follow all instructions.
Suivez toutes les instructions.
5. Do not use this apparatus near water.
Ne pas utiliser cet appareil près de l'eau.
6. Clean only with a dry cloth.
Nettoyer uniquement avec un chiffon sec.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
Ne pas installer près de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9. Do not defeat the safety purpose of the polarized or grounding - type plug. polarized plug has two blades with one


wider than the other. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Ne détruisez pas la sécurité de la terre ou polarisées - fiche. Une fiche polarisée possède deux lames dont une est plus large que l'autre. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
Protégez le cordon d'alimentation d'être piétiné ou pincé, particulièrement au niveau des fiches, des prises, et le point où ils sortent de l'appareil.
11. Only use attachments/accessories specified by the manufacturer.
N'utilisez que des accessoires spécifiés par le fabricant.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus, combination to avoid injury from tip-over.



Utilisez uniquement un chariot, stand, trépied, support ou table spécifiés par le fabricant ou vendu avec l'appareil. Quand un panier ou rack est utilisé, faites attention lorsque vous déplacez l'ensemble chariot / appareil, pour éviter d'éventuelles blessures en cas de chute.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes de temps.
14. 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.
Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce cordon d'alimentation ou la fiche est endommagé, liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou s'il est tombé.
15. **WARNING:** The appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
AVERTISSEMENT: La fiche d'alimentation (appareil coupeur) est utilisé comme dispositif de déconnexion, le dispositif de déconnexion doit rester facilement accessible.
16. No naked flame sources, such as lighted candles, should be placed on the apparatus.
Aucune source de flamme nue, telle que des bougies allumées, ne doit être placé sur l'appareil
17. Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection. 
Borne de terre de protection. L'appareil doit être connecté à une prise secteur avec une prise de terre.

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Overview.

Thank you for purchasing Elura Amplifier products. Elura is a high performance custom installed product engineered for movie and music enthusiasts. Each Elura product is manufactured to the highest quality standard using state of the art components and built for years of enjoyment.

Features.

- Digital high power amplification
- 4 Ohm Impedance Capable
- Thermal & Short Circuit Protection
- Low Noise
- Small chassis
- Less Heat
- Efficient Class D design
- Rack mountable
- Automation circuit
- Detachable Power Cord

Contents.

- Amplifier
- Rack Mounting Hardware
- Power cord
- Manual

Front Panel

Front Panel LEDs.

The Elura Subwoofer amplifier has a LED on the front panel to indicate the amplifier's power state. The Power LED indicates the amplifier is ON. Power ON = Blue
Power OFF = Red

EQ Settings.

There are 3 EQ placement settings, manual crossover frequency, and phase settings on the front panel. The EQ toggle offers three different curves pending the placement location and applications.

Using the LFE input bypasses these functions and uses the cross over settings in the AV receiver.

EQ 1, toggle left position, is set for a normal bass response. Use this EQ position when you are installing a subwoofer under normal conditions.

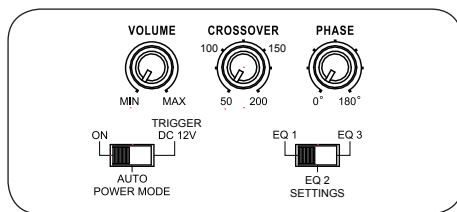
EQ2, center toggle position, is a reduced bass boost output. You can use this setting if connecting 2 subwoofers or if the bass seems boomy or excessive.

EQ3, toggle right position, is used to further reduce the bass output from the EQ2 setting and commonly suggested for non-home theater stereo based systems.

Every room is different and can offer unique challenges based on size, listener position, and the construction of the room. The EQ settings can help tailor the bass levels to the desired level. Use a sound level meter and fixed frequency tones to measure the output of each channel.

Crossover Setting.

The crossover point can be adjusted. Adjustments are from 50 to 200Hz. Pending



ing the size and type of your left and right speakers, the cutoff point offers higher performance and less distortion at higher volumes from the main speakers.

Phase Setting.

Speaker phase can be adjusted pending the speakers location in the room and the prime listening position. Changing phase can benefit the listener by repositioning the low frequency wave in association to front speaker sound waves. The area where both the subwoofer and the front speakers are located can interfere with each other. Phase adjustments can change the negative interactions based on the speaker locations, the distances between them, the listeners position, and the room boundaries.

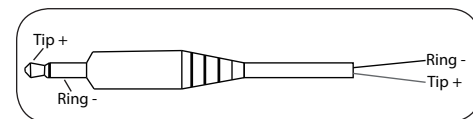
Auto Power Modes.

The AMP500/1.2 has three power modes, ON / AUTO / TRIGGERED.

ON = Always ON

AUTO = Signal sensing via audio

TRIGGERED = 12VDC tip positive



Amplifiers can produce noise when left on. The noise is a buzz and is heard when music isn't playing in a very quiet room. If you are using a master switch to turn off power to your audio equipment, always on is acceptable. In loud environments, always ON may be acceptable. In quiet rooms, it is suggested to use AUTO or TRIGGERED options.

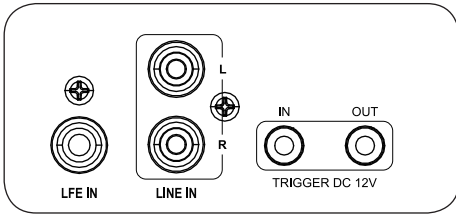
Amp Volume Settings.

The volume for the amplifier is on the front panel. It is a set and forget gain control of the subwoofer output. If there are 2 subwoofers connected, the volume will control the output of both products connected.



Rear Panel

AV Receiver / Preamp Connections.



Preamplified connections are made using Stereo RCA patch cables or a single digital RCA LFE patch cord. A LFE connection, is a direct path to the amplifier from the processor or the AV receiver. The low frequency effects are crucial for movies.

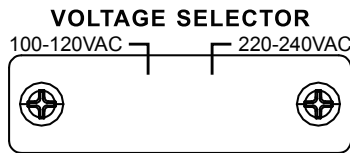
12V Trigger in/Out

For triggering the power on/off from other devices such as processors or receivers that have a 12V trigger output.

Note: that this function should be used in conjunction with the ON/AUTO/TRIGGERED switch on the front panel

Input AC & Power Cord

The AMP500/1.2 can operate in 110V and 220V environments. Before powering the amplifier on, make sure that the input AC Selector is in the correct position and that the correct fuse is installed. Plug the AC power cord into the amplifier first and then into the wall outlet. Make sure it is firmly connected.

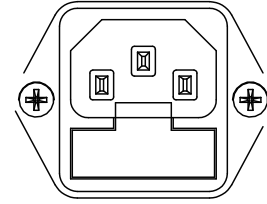


Caution

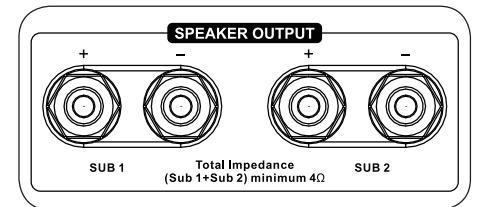
The fuse holder is located directly under the power socket. It contains one extra 8 ampere, 250V fuse.

When accessing the fuse holder, first make sure the AMP500/1.2, is turned off and unplugged from both the wall outlet and the amplifier's power socket. Place a flat head screwdriver just above the

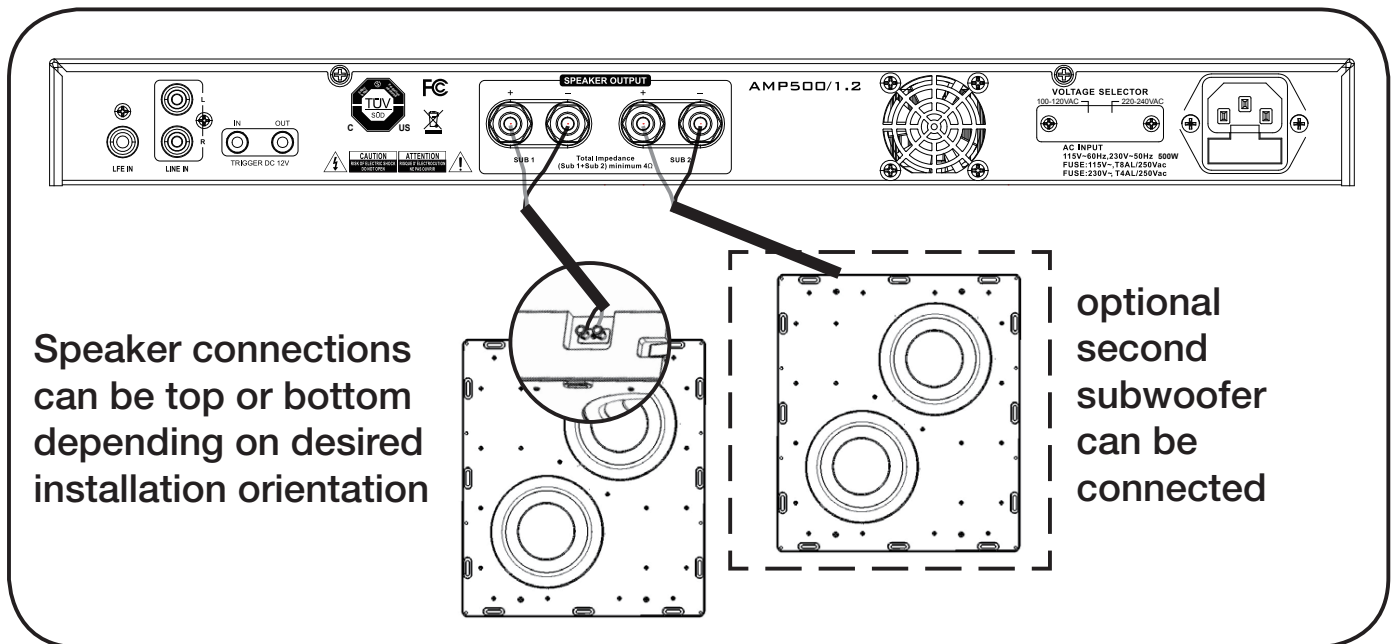
groove on the top of the fuse holder to pry it off.



Speaker Connections.



The AMP500/1.2 has 5 way binding post connections for two subwoofers. The connector can be used to screw down on bare wire, banana plugs, spades or pins. Position and polarity are color coded and marked to avoid phase issues. Be sure to follow proper polarity for each sub and position.



Specifications

Model: AMP500/1.2

Description: Subwoofer Amplifier

Output Power: Line & LFE 500W @ 4Ω, Line & LFE 330W @ 6Ω
Line & LFE 250W @ 8Ω

THD+N: Line & LFE @4Ω=0.04%

Input Sensitivity: Line 124mV / LFE 162mV

Frequency Response: Line 15Hz - 260Hz / LFE 15Hz - 550Hz

Low Pass Crossover: 1W/4Ω 90Hz = 0-3dB, 90Hz - 260Hz

Low Pass Filter: 1W/4Ω, 260Hz=0dB, test point @ 525Hz, 13dB/Octave

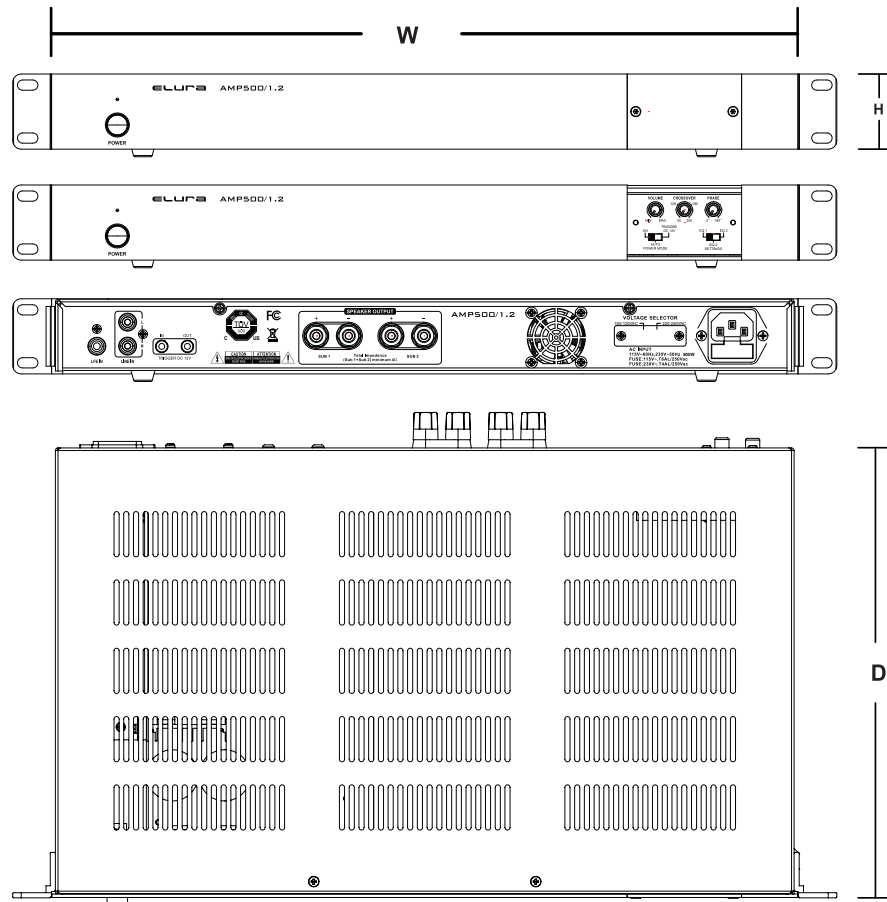
Signal to Noise Ratio: 500W @4Ω / 90Hz, 90dB, 1W @4Ω / 90Hz, 65dB

Auto Turn Off Time: 16 min

Supply Voltage: AC230V / 50Hz, AC115V / 60Hz

Dimension (H x W x D): 44mm x 437mm x 263mm (1.73"X17.2"X10.35")

Weight: 3.3kg (7.27lb)



Troubleshooting

To avoid a popping noise when turning off your subwoofer, turn the subwoofer amplifier off before the preamp signal from the receiver is powered off. To avoid the popping noise when powering your system up, have the preamp signal from the receiver on before the subwoofer powers up. Power sequencing and triggers can be used to avoid this issue. Many of today's sophisticated AV receivers offer power sequencing and triggered outputs. See the manufacturers manuals for the AV receiver to take advantage of this sequencing option.

NO audio

- Power cable to the amplifier is not fully or incorrectly connected or plugged into an outlet that does not have power. Check connections and verify power is on at the outlet. Verify the power button on the front panel is "BLUE".
- Audio cable to the source component is not connected properly, or the cable is defective.
- Check the audio source for output, try it with another amplifier.
- Make certain the volume control on the front panel is turned up.
- Check the speaker output connections for proper polarity wiring and that no wires are shorted.

Hum or buzzing sound is heard

- Check input cables by removing them one at time (powering down the amplifier before disconnecting) and checking to see if a connection or cable is the problem.

Amplifier will not turn on

- The amplifier must be plugged into a live outlet.
- Check the On, Auto, TRIGGER switch position for Normal or Auto-On. If you are using Auto-On, an audio signal must be applied for the amp to turn on.

Audio is lacking low frequency output

- Check the crossover frequency adjustments and EQ setting on the front panel.

Product Warranty

The seller warrants the AMP500/1.2 free from defects in the material and workmanship for 2 years from the date of purchase from the seller or authorized dealer. Should this product fail to be in good working order within the warranty period, the product will be repaired or replaced provided that the unit has not been subjected to accident, disaster, abuse, or any unauthorized modification. This warranty is offered by the seller for its buyer with direct transaction only. This warranty does not apply to products that have been abused, incorrectly installed, modified, disassembled and/or repaired by anyone other than Elura or our appointed repair

A unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the buyer. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty, all of which are expressly disclaimed. Proof of sale may be required in order to claim warranty.

The content of this manual has been carefully checked and is believed to be accurate. However, the seller assumes no responsibility for any inaccuracies that may be contained in this manual. Also, the technical information contained herein regarding the features and specifications are subject to change without further notice.

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