

User Manual



EUROLIVE E1520A/E1220A

Processor-Controlled 400-Watt 2-Way PA Loudspeaker/Floor Monitor

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Thank you

Thank you for the confidence you have placed in us by purchasing the BEHRINGER EUROLIVE E1520A/E1220A speaker. Targeting DJs and presenters, these extremely robust, high-power loudspeakers offer amazing performance, durability and portability that have made the series of EUROLIVE loudspeakers so widely used and appreciated.

EN Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section).

No user serviceable parts inside. Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service instructions are for use by qualified service personnel only.

To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

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 plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid

injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

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.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at www.music-group.com/warranty.

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1. Introduction

With powerful 400 Watts, wide frequency bandwidth and extensive dynamic range, these sound reinforcement speakers deliver truly impressive sound. The powerful long-excursion drivers crank out big tone in the bottom end and mid-range, while the state-of-the-art 1" HF drivers deliver crisp and detailed highs. Each speaker has been optimized for maximum reliability through the integrated sound processor, ensuring ultimate system control and speaker protection. The enclosure's shape not only allows use in an upright position, but can also be tilted for use as a floor monitor. It also offers a high degree of durability that can endure even the harshest road conditions.

1.1 Before you get started

1.1.1 Shipment

Your E1520A/E1220A was carefully packed at the assembly plant to assure secure transport. Should the condition of the cardboard box suggest that damage may have taken place, please inspect the unit immediately and look for physical indications of damage.

- ♦ Damaged equipment should NEVER be sent directly to us. Please inform the dealer from whom you acquired the unit immediately as well as the transportation company from which you took delivery. Otherwise, all claims for replacement/repair may be rendered invalid.
- ♦ Please always use the original packaging to avoid damage due to storage or shipping.
- ♦ Never let unsupervised children play with the E1520A/E1220A or with its packaging.
- ♦ Please dispose of all packaging materials in an environmentally friendly fashion.

1.1.2 Initial operation

Be sure that there is enough space around the unit for cooling. To avoid overheating, do not place the E1520A/E1220A on top of power amps or near radiators, etc.

- ♦ Blown fuses must be replaced by fuses of the same type and rating. Please refer to the "Specifications" for further details.
- The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all international safety certification requirements.
- ♦ Please make sure that all equipment is properly grounded at all times. For your own safety, never remove or disable the ground conductor of the unit or of the AC power cord.
- ♦ The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.

Warning

- ♦ This loudspeaker is capable of producing extreme volumes. Please keep in mind that high sound pressures do not only temporarily damage your sense of hearing, but can also cause permanent hearing damage. Be careful to select a suitable volume at all times.

1.1.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

2. Control Elements and Connections

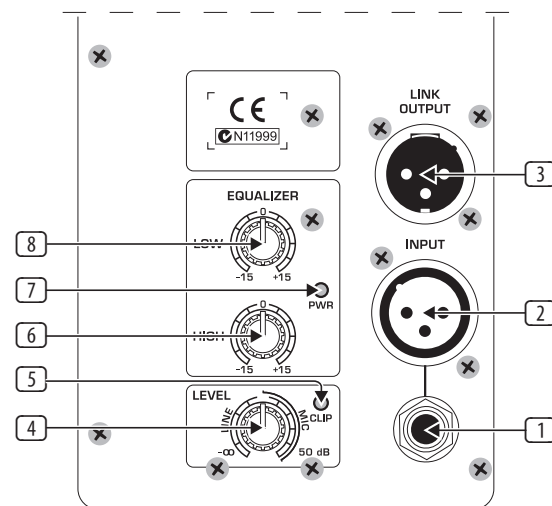


Fig. 2.1: Control elements and connections (E1520A and E1220A)

- 1 Use this 1/4" stereo jack to connect a signal source that has 1/4" output.
- 2 Use this XLR connector to connect a signal source that has XLR output.
- ♦ Always use either the XLR or the 1/4" jack input, and use the LEVEL control 4 to adapt the input sensitivity. Never use both inputs at the same time!
- 3 The LINK OUTPUT is directly connected to the inputs of the E1520A/E1220A and carries the input signal with no processing applied. In this way, you can route the signal to the input of another device (for example, a second E1520A/E1220A).
- 4 To set the volume of the LINE or MIC signal, use the LEVEL control. The left half of the control range is for attenuating the LINE signal. The right half is for raising the level of the MIC signal.
- 5 The CLIP LED lights up when signal distortion occurs. Reduce the volume with the LEVEL control until the CLIP LED does not light up any more, or occasionally lights up at signal peaks.

- ♦ We would like to draw your attention to the fact that extremely loud sound levels may damage your hearing as well as your headphones/loudspeakers. Turn the **LEVEL** control fully to the left before you switch on the unit. Be careful to select a suitable volume at all times.

- 6 The **HIGH** control adjusts the level of the high-frequency range.
- 7 The **PWR** LED lights up when the loudspeaker is put into operation.
- 8 The **LOW** control adjusts the level of the low-frequency range.



Fig. 2.2: Control elements and connections (E1520A and E1220A)

- 9 The mains connection is established using a cable with an **IEC** mains connector. This cable is packaged with the E1520A/E1220A. To avoid ground-loop hum, loudspeakers and mixing consoles should be connected to the same power circuit.
- 10 You can replace fuses at the **FUSE SWITCH** of the E1520A/E1220A. Always replace fuses with the same type. Please follow the instructions given in chapter 5 "Specifications."
- 11 Press **POWER** to turn on your E1520A/E1220A.
- ♦ The **POWER** switch does not fully disconnect the unit from the mains. To disconnect the unit from the mains, pull out the main cable plug or appliance coupler. When installing the product, ensure the plug or appliance coupler is readily operable. Unplug the power cord completely when the unit is not used for prolonged periods of time.
- 12 **SERIAL NUMBER.**

3. Application Examples

- ♦ Turn the **LEVEL** control fully to the left before you switch on the unit with the **POWER** switch. Then, raise the volume to a suitable level.

3.1 Using a mixing console

A common way to use 2 E1520A/E1220A loudspeakers is with a mixing console. In this case, connect each of the main outputs that are on the mixing console to a E1520A/E1220A loudspeaker. The E1520A/E1220A includes XLR and ¼" connectors. To avoid interference, use only XLR or ¼" jack cables.

3.2 Using several E1520A/E1220A loudspeakers

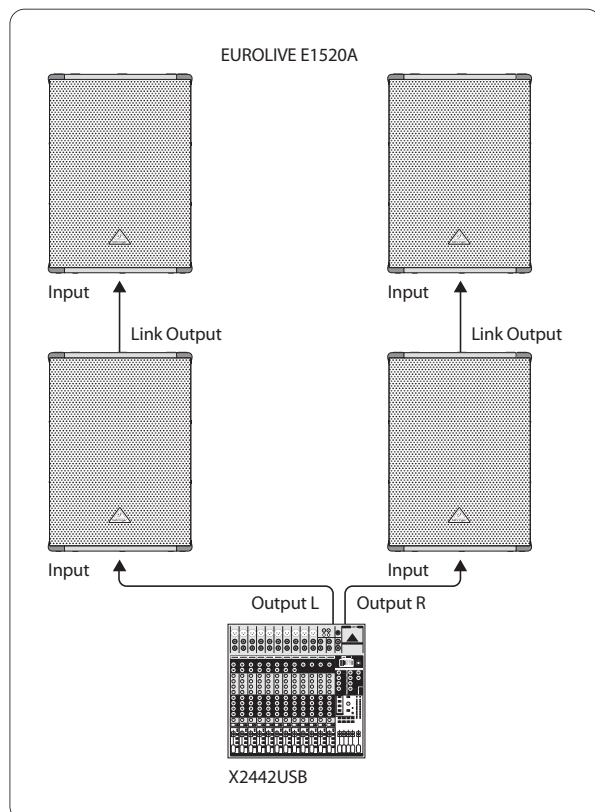


Fig. 3.1: Wiring several E1520A/E1220A loudspeakers using the LINK OUTPUT connector

For larger rooms, you can connect several E1520A/E1220A speakers using the **LINK OUTPUT** connector 3 (see fig. 3.1).

3.3 Direct connection of a stereo signal source

When you use two E1520A/E1220A loudspeakers, you can directly connect one stereo signal source, for example, a CD player. In this case, each of the speakers is connected to 1 signal-source output. (If necessary, use the appropriate adaptor.)

4. Installation

Both audio inputs of the BEHRINGER E1520A/E1220A and the LINK OUTPUT connector are fully balanced. To maximize interference compensation, try to establish balanced connections to other equipment, whenever possible.

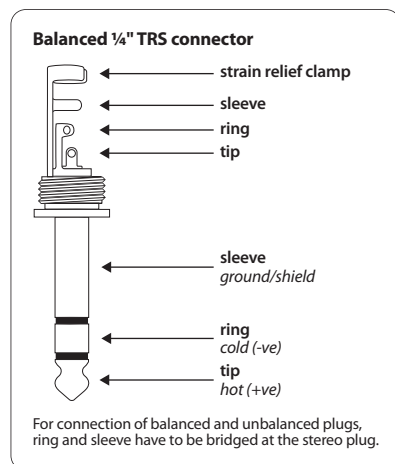


Fig. 4.1: 1/4" TRS connector

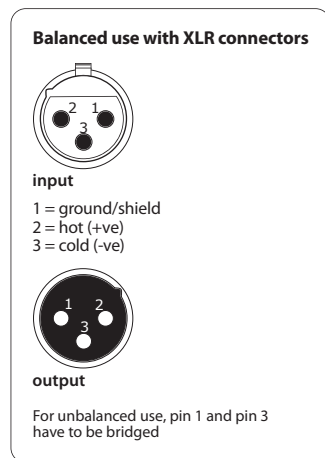


Fig. 4.2: XLR connector

- ♦ Make sure that only competent personnel install your E1520A/E1220A. They must be sufficiently earthed during and after the installation process. Otherwise, electrostatic discharges may negatively affect the operating characteristics of your equipment.

5. Specifications

Output Power

Low-Frequency Range

RMS @ 1% THD	200 W @ 8 Ω
Peak power	320 W @ 8 Ω

High-Frequency Range

RMS @ 1% THD	50 W @ 8 Ω
Peak power	80 W @ 8 Ω

Input

XLR Connector (Servo-Balanced)

Sensitivity	-40 to +4 dBu
Input impedance	24 k Ω

1/4" Jack (Servo-Balanced)

Sensitivity	-40 to +4 dBu
Input impedance	24 k Ω

Link Output

XLR Connector

System Data

E1520A

Frequency range	50 Hz to 20 kHz
Crossover frequency	2 kHz (12 dB)
Maximum sound pressure level	125 dB @ 1 m
Limiter	optical
Dynamic Equalizer	Processor-controlled

E1220A

Frequency range	60 Hz to 20 kHz
Crossover frequency	2.2 kHz (12 dB)
Maximum sound pressure level	124 dB @ 1 m
Limiter	optical
Dynamic Equalizer	Processor-controlled

Equalizer

HIGH	12 kHz / ± 15 dB
LOW	80 Hz / ± 15 dB

Power Supply**Mains Voltage / Fuses**

100 -120 V~, 50/60 Hz	T 5,0 A H 250 V
220 -230 V~, 50/60 Hz	T 2,5 A H 250 V
Power consumption	max. 400 W
Mains connector	Standard IEC receptacle

Dimensions / Weight**E1520A**

Dimensions (H x W x D)	approx. 25.2 x 18.3 x 19" approx. 640 x 465 x 485 mm
Weight	approx. 58 lbs / 26.3 kg

E1220A

Dimensions (H x W x D)	approx. 585 x 400 x 410 mm (23 x 15.7 x 16.1")
Weight	approx. 22.3 kg (49 lbs)

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.



We Hear You