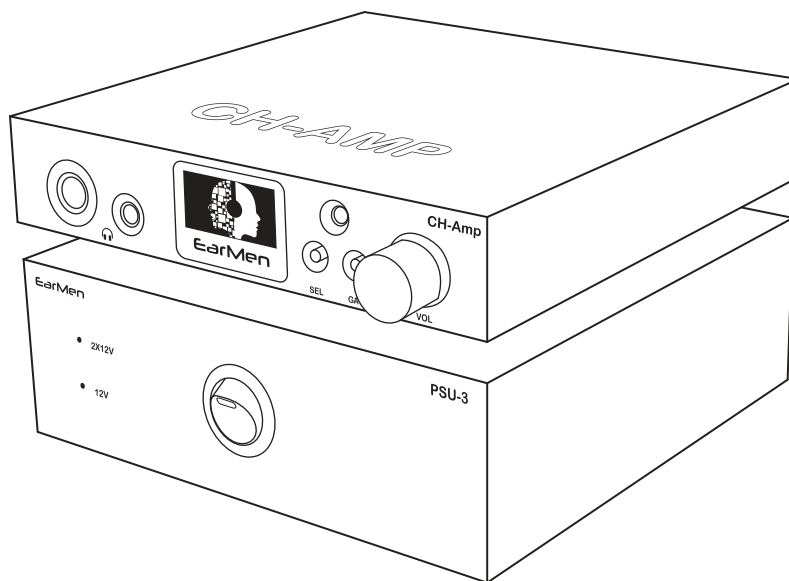




# EarMen

## CH-Amp

Desktop Headphone Amplifier/Pre Amplifier



**USER MANUAL**



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## **1.0 INTRODUCTION**

Welcome to EarMen Family.

EarMen CH-Amp is a Fully Balanced Desktop Headphone Amplifier with the Pre Amp option and Linear Power Supply.

CH-Amp has excellent characteristics, very low signal-to-noise ratio, and THD, excellent frequency response and a lot of power where the characteristics of the device are changed very little even at high loads.

Please take a short time to read the information in this manual. We want you to be as familiar as possible with all the features and functions of EarMen CH-Amp.

## **2.0 PACKAGE CONTENT**

EarMen CH-Amp  
Linear Power Supply  
Remote Control  
User manual

Retain the packing materials for future use. Retain the user manual and information concerning the date and place of purchase of your equipment for further reference.

### 3.0 IMPORTANT SAFETY INSTRUCTIONS

- Please read these instructions carefully before commencing installation. They provide full guidance to help you install your streamer safely and correctly.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Clean only with dry cloth. Unplug this product from the mains before cleaning.
- Do not install near any heat sources such as radiators, heat registers, stoves or any other apparatus that produce heat.
- Do not use this product near water.
- Do not defeat the safety purpose of the polarized or grounding-type plug. USA and Canada only: 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.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.
- **WARNING:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
- To completely disconnect this equipment from the mains, disconnect the power supply cord plug from the receptacle
- The mains plug of the power supply cord shall remain readily operable.

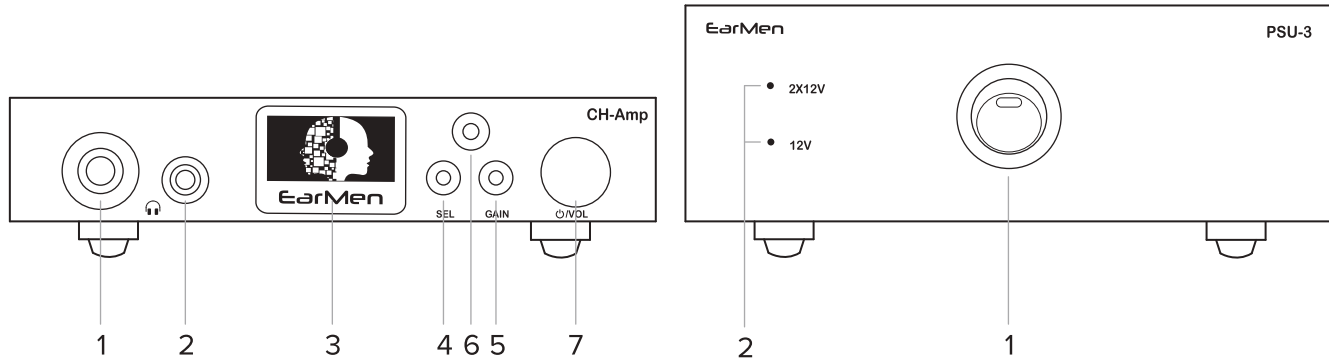


• **ATTENTION:**

This lightning flash with arrowhead symbol within an equilateral triangle is intend to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be sufficient magnitude to constitute a risk of electric shock. Unauthorized personnel must not open this unit.

- The unit must be mounted on a solid, level and stabile surface.
- Before you connect the device to AC mains power, ensure your AC mains voltage corresponds to the product.

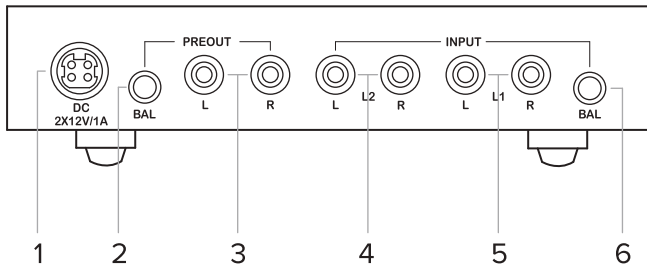
## 4.0 FRONT PANEL



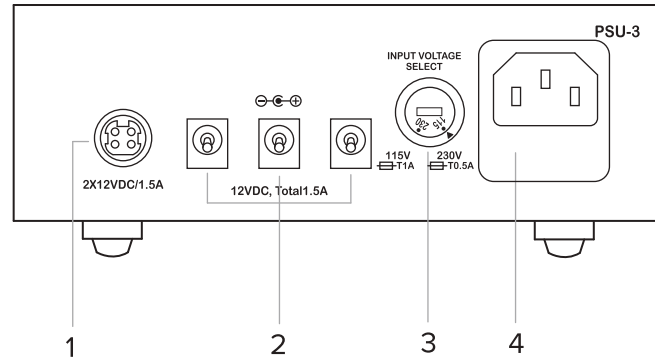
1. Headphone SE 6.35mm Output
2. Headphone Balanced 4.4mm Output
3. OLED Display
4. Select button
5. Gain button
6. Remote receiver
7. On/Off - Volume knob button

1. Power Supply Unit Power On/Off button
2. Power Supply Unit Output Indicator

## 5.0 BACK PANEL



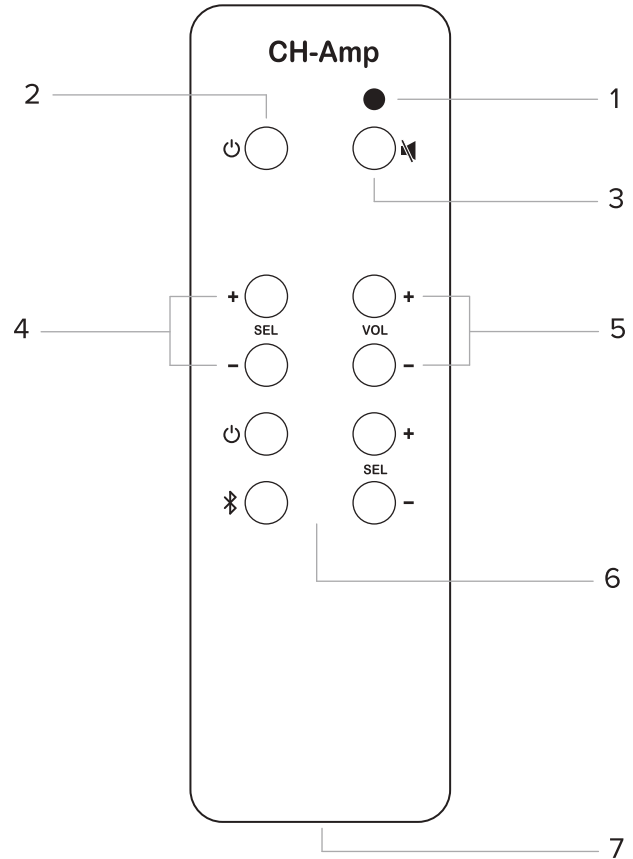
1. Power Supply Input
2. Balanced 4.4mm Pre Output
3. RCA Single Ended Pre Output
4. Line 2 RCA Single Ended Input
5. Line 1 RCA Single Ended Input
6. Balanced 4.4 mm Input



1. DC  $\pm 12V/1.5A$
2. DC 3 x 12V – Total 1.5A
3. Power Supply Unit Input Voltage Selector
4. Power Supply Unit Inlet

## 6.0 REMOTE CONTROL

1. LED indicator
2. ON/OFF Button
3. Mute
4. Select Buttons
5. Volume Buttons
6. EarMen Tradutto Remote Control Buttons
7. USB C Charging Port





## 7.0 INSTALLATION

EarMen CH-Amp Headphone Amplifier/ Pre Amplifier has a selection of different inputs and outputs.

Locate and connect your CH-Amp inputs on the back with your source device. Also connect the outputs of the CH-Amp with your favorite Headphones and enjoy!

Feel free to contact the EarMen Customer Service department for any further questions or for additional assistance at [support@earmen.com](mailto:support@earmen.com)

## 8.0 OPERATION

### 8.1 Switching On and Off

- The device is switched ON by a short press, or OFF by a long press on a button or a remote control.

### 8.2 Gain Option

- Press the Gain button on the front panel to setup/configure low or high gain option.

### 8.3 Source select

- To select different source inputs, press the Select button on the front panel or Remote control.

### 8.4 Remote Control Led Indicator

- Green - the remote is active
- Flashing Red - the battery is empty
- Red - charging

### 8.5 Mute Option

- Short press on the Volume knob or Remote Control

## 9.0 SPECIFICATIONS

Inputs	L 1	RCA Single End Input	Input Sensitivity = 2V
	L 2	RCA Single End Input	Input Sensitivity = 2V
	BAL	Balanced 4.4 mm Input	Input Sensitivity = 4V

Headphone Outputs	SE 6.35mm	output impedance = <math><1 \Omega</math>
	Balanced 4.4mm	output impedance = <math><1 \Omega</math>

Pre Outputs	RCA (SE output)	output impedance = 100 $\Omega$
	Balanced 4.4mm	output impedance = 200 $\Omega$

Headphones	Single-ended output		Fully Balanced Output	
	SE Input	BALANCED Input	SE Input	BALANCED Input
Output Level	7Vrms VOL=30	11Vrms VOL=29	7Vrms VOL=30	11Vrms VOL=29
Max Power	1,5 W	3,8 W	1,5 W	3,8 W
THD+N	0.0008%	0.0005%	0.0008%	0.0007%
SNR	>116dB	>118dB	>118dB	>119dB
Freq. Response	$\pm 0.005$ dB	$\pm 0.005$ dB	$\pm 0.005$ dB	$\pm 0.005$ dB

Line	Balanced output	Single-end Output
Output Level	8V	4V
Output Impedance	200 $\Omega$	100 $\Omega$

Gain	High	Low
SE 6.35mm	7V (1.5W / 32 $\Omega$ )	2.9V (260mW / 32 $\Omega$ )
Balanced 4.4mm	11V (3.8W / 32 $\Omega$ )	5.5 V (1W / 32 $\Omega$ )

Dimensions LxHxW	150x30x150 mm / 5,9"x1,18"x5,9"
Weight	550 gr / 1,21lbs
PSU Dimensions LxHxW	150x60x150 mm / 5,9"x2,36"x5,9"
PSU Weight	1590 gr / 3,52 lbs

## 10.0 TROUBLESHOOTING

If you experience any trouble with your EarMen CH-Amp, contact us on: [support@earmen.com](mailto:support@earmen.com)

### 10.1. There is no power

- ensure the AC power cord is connected properly
- ensure the plug is fully inserted into the wall socket
- ensure the wall socket is working properly

### 10.2. There is no sound

- check the source component is properly connected
- check your system/speakers are properly connected

### 10.3. There is no sound on one channel

- check speaker connections
- check the interconnects

### 10.4. There is buzz or hum

- ensure no interconnects are loose or defective
- if the noise floor is low, it's most likely a ground loop.

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## 11.0 WARRANTY

Product you have purchased is designed to give you enjoyment in your favorite music. However it is possible that the failure occurs even at this precise-made, high quality equipment. In this case, please read the enclosed warranty carefully which contains rights, limitations, exclusions and obligation.

### EarMen LLC warranty terms and condition

- Please register your product within 30 days of purchase, otherwise the warranty will not apply.
- EarMen products come with a two years limited warranty against defects in materials and workmanship.
- Guarantee service is available only in the region/country of original sale
- The guarantees start from the invoice-issue date
- Original invoice must be produced for the authentication prior to any warranty claim.
- Warranty is provided to the original owner only and is not transferable to any third party.
- The warranty does not cover:
  - (a) if the EarMen product is stored in a humid environment
  - (b) which has not been maintained in accordance with any operating or handling instructions provided by EarMen LLC
  - (c) which has been used other than in accordance with the product operating and handling instructions
  - (d) any service or modification performed by an unauthorized person or company
  - (e) any product not purchased from EarMen or an a EarMen Authorized Partner
  - (f) repair work performed by the end user or any non-authorized repair center.
  - (g) normal wear tear and cosmetic damage
  - (h) product sold "as is", "as seen"
  - (i) connected equipment
  - (j) personal injury
- The limited warranty applies to the battery and is valid for 6 months (if any)
- EarMen will during the warranty period repair the product to working order or if this is not possible, EarMen will be replaced the product with the same one or the similar available product.
- Any parts/device that are replaced will become the property of EarMen
- After the warranty period, all the repairs and shipping cost will be charged to the owner.
- Any repair or replacement under this warranty will not extend the prior of warranty.

## 12.0 NOTE

- After the first Turning On, the logo appears on the display, and then the selected channel, gain and volume.
- After switching OFF the device, it remembers the previously selected input, so it does not have to be done again when switching on.
- If the headphones are not plugged in, the “Gain” will not appear on the screen, but “Pre”, which means Pre-Out and the Line output for the speakers will be active, while the headphones will not. When the headphones are plugged in, than the Headphone Output is active.
- The volume goes from 0 to 30. If the headphones are removed, the volume gets a value of 0 to protect the user equipment and the device itself.
- By briefly pressing the encoder button, the device goes to Mute, after pressing it again, the volume slowly increases to the last set value.
- When registering a product, attach the invoice and serial number of the product

If you have any question, contact us at: [sales@earmen.com](mailto:sales@earmen.com)

For more visit [earmen.com](http://earmen.com)

This product should not be disposed with your household waste.  
This product should be handed over to a designated collection point to be recycled.







EarMen LLC  
Chicago, IL, USA