

USER'S MANUAL V1.1



OHM HEADPHONE MATCHING AMPLIFIER



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We are pleased to announce the the O.H.M Amp, the first ever impedance headphone matching amplifier that accommodates to your headphones to bring out their full potential.

For our first headphone amplifier we wanted to deliver something unique: a studio grade amplifier that is able to perfectly adapt to your headphone's impedance to get the most out of them but using top audiophile grade components to broaden its uses beyond the studio. That is why we have used top quality components as the Alps "Blue Velvet" potentiometer and Burr Brown DAC and Op Amps, components that were reserved for the top tier Hi-Fi headphone amplifiers...until today.

We hope you enjoy your O.H.M Amp as much as we did designing it and thank you for purchasing the studio-grade headphone amplifier with the audiophile's soul.

Peter Rodríguez
CEO
Heritage Audio. Madrid, Spain.

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- 1 O.H.M Amp
- 1 Universal 30V Power Supply
- 1 Bluetooth Antenna
- 1 Heritage Audio Mouse Pad

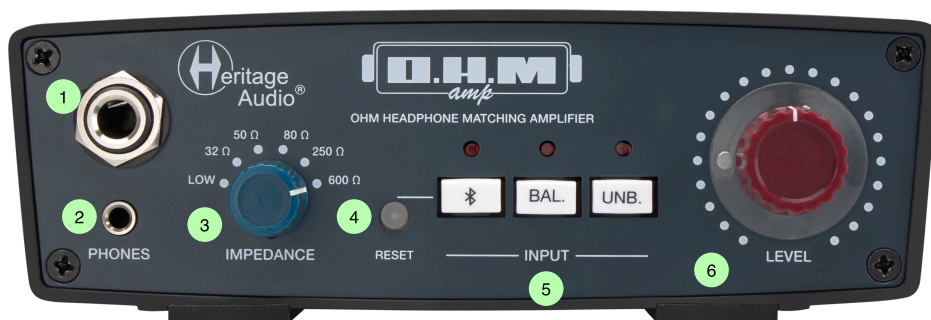


Whether you want to use its balanced input, gold-plated RCA input or even its pro quality Bluetooth receiver with Burr Brown DAC, the O.H.M Amp offers three independently selectable top quality input sources for your headphones to shine. Once the input source is selected, the O.H.M Amp's impedance switch allows you to match the signal's output impedance to your headphone's particular impedance to ensure you get the most out of your them, whether they be a set of the cheapest low impedance earbuds around or one of the highest quality, audiophile-grade models.

Its discrete diamond buffer, taken from our highly acclaimed R.A.M System 2000 and 5000 models, and Burr Brown Op Amps for extreme fidelity and ultra low noise, ensure that this mighty headphone amp will deliver an audiophile-grade response for whatever your headphones are. The highly sought-after audiophile-grade Alps "Blue Velvet" output level potentiometer is the icing on the cake of this beautiful headphone amp.

The O.H.M Amp also provides two different ways to connect your headphones, independent 6.35 and 3.5 mm (1/4" and 1/8") built-in jack connections on the front of the O.H.M Amp are provided so you can finally forget about noisy adapters...seriously, why hasn't anyone thought of that before?.





- 1 **HEADPHONES JACK OUTPUT:** 1/4" (6.35 mm) TRS.
- 2 **HEADPHONES MINI JACK OUTPUT:** 1/8" (3.5 mm) TRS.
- 3 **IMPEDANCE:** Knob selector for adjusting the impedance to your headphones.
- 4 **RESET:** Reset the Bluetooth sync (Hold for 10 sec).
- 6 **INPUT SELECTOR:** Choose between Bluetooth, Balanced or Unbalanced inputs.
- 5 **OUTPUT LEVEL:** Output volume adjustment.



- 1 **POWER:** Turns the O.H.M Amp ON/OFF
- 2 **POWER:** 30VDC. Only use the included power supply.
- 3 **THRU OUTPUT:** 1/4" (6.35 mm) TRS L&R.
- 4 **UNBALANCED RCA:** RCA Unbalanced Inputs L&R.
- 5 **BALANCED XLR/TRS COMBO INPUTS:** Female XLR & 1/4" (6.35 mm) TRS Balanced jacks L&R.

INPUTS: The O.H.M Amp provides three ways for signal input on the back of the unit. Gold plated RCA connectors are available for the unbalanced input as well as two combo XLR/Jack 1/4" for balanced input and the Bluetooth antenna receiver. You can easily select your input source by pressing the white buttons on the front of the unit.

IMPEDANCE SELECTOR: The O.H.M Amp's impedance selector allows you to accommodate its impedance to your headphone's impedance for optimal performance. Please check your headphone's OHM rating to match it with the O.H.M Amp's.

LEVEL KNOB: Use the level knob to adjust the output volume delivered to your headphones. We have chosen to use the legendary Alps "Blue Velvet" potentiometer to enhance the user experience with its silky smooth feel.

HEADPHONE OUT CONNECTORS: 2 different headphone out connectors had been implemented into the O.H.M Amp for the user's convenience. Avoid using an adapter by choosing the right connection to pair with your headphones, either Jack 1/8" or Jack 1/4". In the event that both outputs are connected, only the Jack 1/4" will go through.

MASTER LEVEL CONTROL KNOB: The audiophile-grade output level Alps "Blue Velvet " potentiometer will allow the user to adjust the overall volume of the O.H.M Amp.

BLUETOOTH RESET BUTTON: It allows to disconnect any existing bluetooth device that is paired with the O.H.M Amp. For further instructions on how to connect to the O.H.M Amp's Bluetooth, please go to the next section on this user manual.

THRU OUTPUT: The O.H.M Amp's thru output allows you to take advance of its audiophile grade Burr Brown Op Amps and connect it to external monitors. This feature also allows you to use the O.H.M Amp as a Hi-Fi Bluetooth receiver, benefiting from its Burr Brown Digital to Analog Converter. Finally, the thru output allows for easy daisy chain several O.H.M Amps.

Synchronizing your mobile device with the O.H.M Amp is as simple as pairing any other Bluetooth device and it will appear as "O.H.M Amp" on your device's list. There are some nice YouTube tutorials about this process on Android and iOS if you need help. The O.H.M Amp automatically selects the best Codec supported by your mobile device, so no extra configuration is needed.

Whenever a device is paired with the O.H.M Amp, the *red sync led* will light. A blinking red light indicates that no Bluetooth device is currently synced. Active streaming is confirmed by corresponding LED being turned on. Please note Codec is NOT configurable. It is automatically chosen from the best available option on your mobile device. Devices can only be paired one at a time. Whenever a different device needs to be paired. Bluetooth needs to be reset, so the reset button must be pressed and held for 10 seconds after connecting a new Bluetooth mobile device.

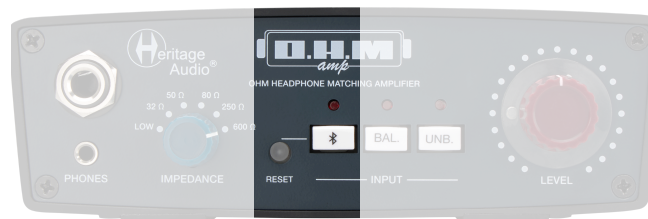
You can use your unit as a premium Bluetooth receiver thanks to the O.H.M Amp's pro quality Bluetooth receiver codecs: APTX, APTX LL, AAC, APTX HD and SBC and the Burr Brown Digital to Analog Converter.

BLUETOOTH

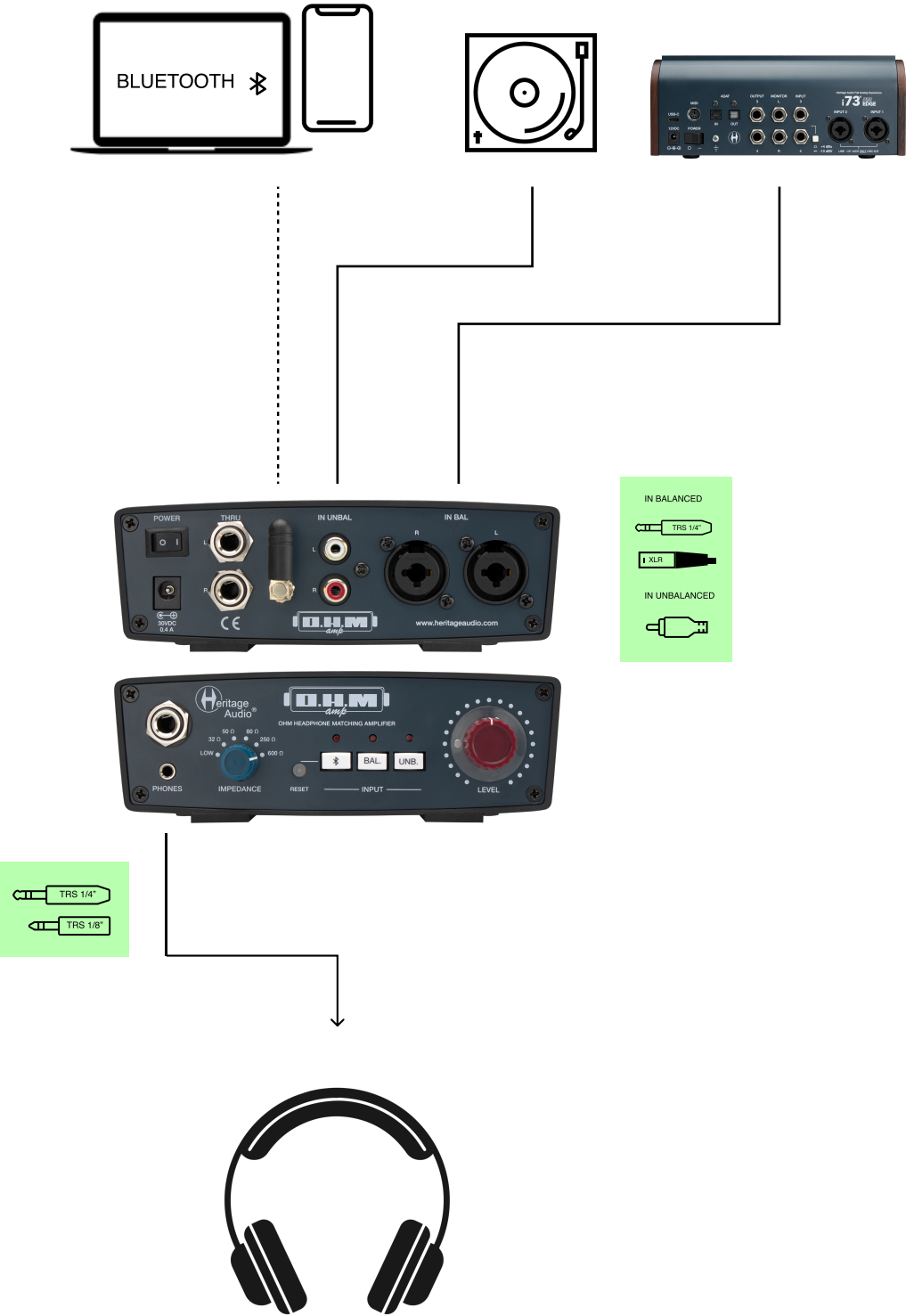
Antenna 



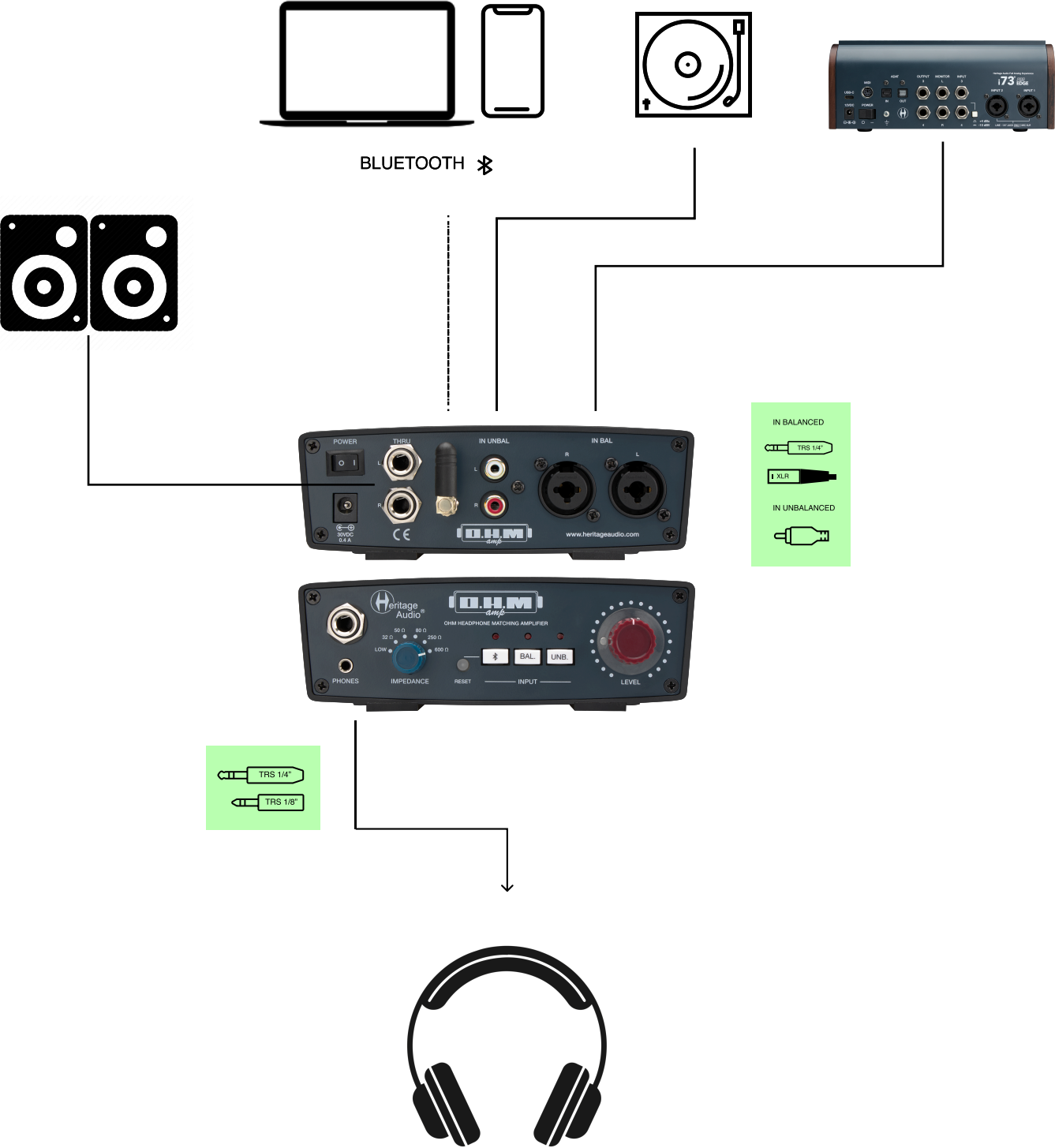
Reset Button/LED and BLUETOOTH Input Selector



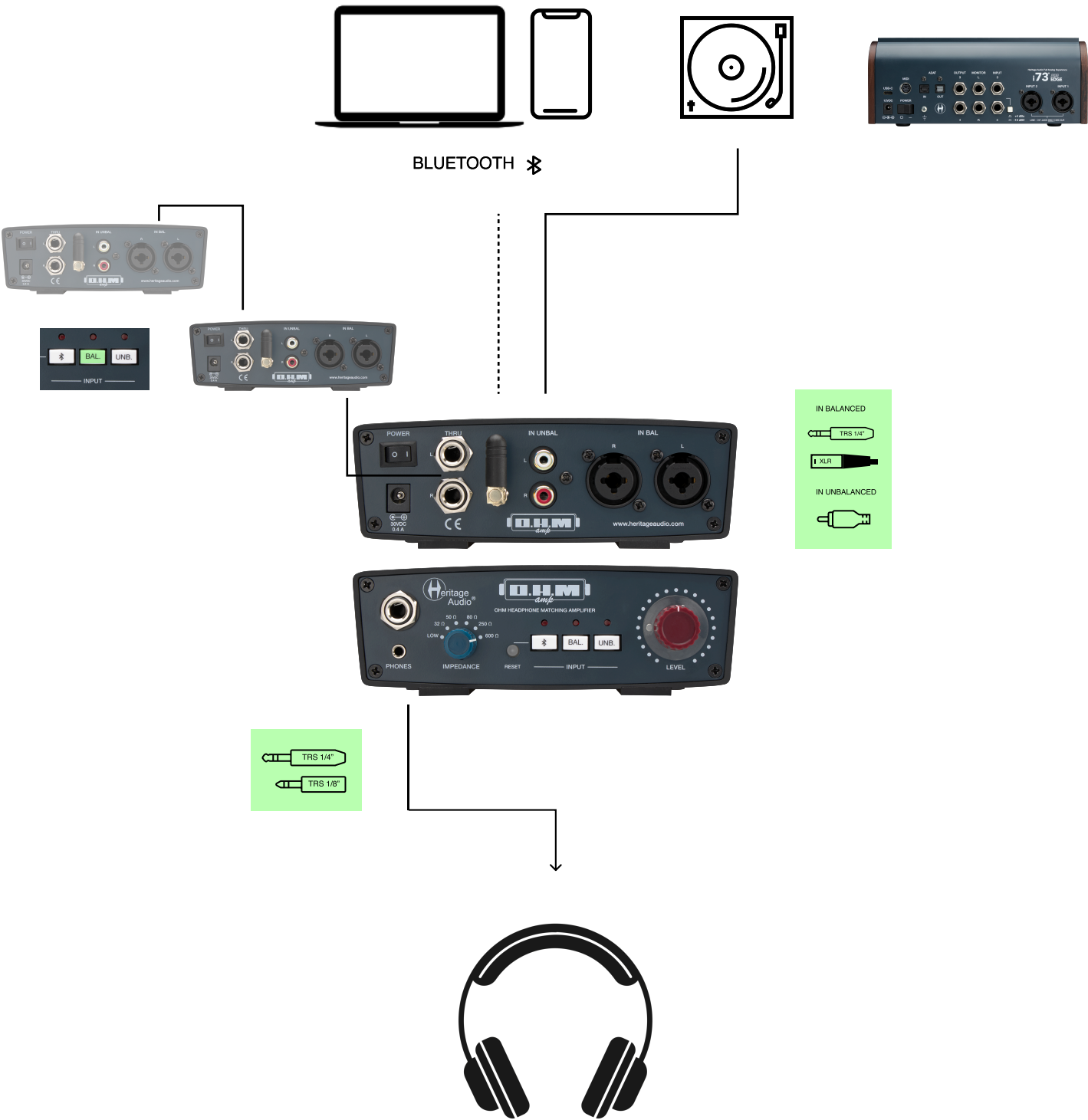
STANDARD SET UP



STANDARD SET UP WITH MONITOR OUT USING THE THRU



DAISY CHAIN SEVERAL O.H.M AMPS



- The O.H.M Amp is the first ever impedance headphone matching amplifier that accommodates to your headphones to bring them to their full potential.
- Full connectivity including independently selectable balanced, gold-plated unbalanced and Bluetooth inputs.
- Audiophile-grade output level Alps "Blue Velvet " potentiometer.
- Discrete diamond buffers as seen on Heritage Audio's high-end R.A.M System models.
- Burr Brown Op Amps for extreme fidelity and ultra low noise response.
- Pro quality Bluetooth receiver (codecs: APTX, APTX LL, AAC, APTX HD and SBC) with Burr Brown DAC.
- Independent 6.35 and 3.5 mm (1/4" and 1/8") jack connectors to forget about noisy adapters.
- Thru output for chaining several O.H.M Amps or using it as a top grade Bluetooth receiver.
- External low-noise, high voltage power supply (30V) for incredible power delivery at any impedance, ensuring an adequate dynamic range, signal to noise ratio and an ultra low harmonic distortion performance.

PROBLEMS	SOLUTIONS
There is no sound coming from my O.H.M Amp.	Make sure that the LEVEL knob is not turned all the way down.
There is still no sound coming from my O.H.M Amp.	Make sure you have selected an INPUT source. (Bal/Unbal/Bluetooth)
I cannot hear anything out of the 1/8" minijack output.	Make sure that you do not have anything plugged into the 1/4" output as that will take priority over the 1/8" output.
I cannot get my Bluetooth to sync up with the O.H.M Amp.	Please go through the RESET process so the O.H.M Amp can find the best CODEC available for transmission.
My unit does not seem to be able to power on.	Make sure that you have the PSU properly connected to its input.
I cannot seem to properly mount my O.H.M Amp on a MIC stand.	You might have a MIC stand with a smaller head, 3/8". A 5/8" to 3/8" adaptor will be necessary.
I am not getting a good signal when using the THRU outputs of the O.H.M Amp.	Make sure you are using good, balanced TRS cables/connectors.
I've noticed a bit of noise when using the BALANCED inputs.	Those inputs are designed to be used with BALANCED cables/connections. Use TRS 1/4" or XLR cables/connectors.

LIMITED 2 YEAR WARRANTY

Heritage Audio's O.H.M Amp is warranted by Heritage Audio S.L. to be free from defects in materials and workmanship for the period of 2 years to the original purchaser. In the event of such defects, the product will be repaired without charge or, at our option, replaced with a new one if delivered to Heritage Audio prepaid, together with a copy of the sales slip or other proof of purchase date. The warranty excludes problems due to normal wear, abuse, shipping damage or failure to use the product in accordance with the specifications. Heritage Audio shall not be liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation or commercial loss or any other damages, whether incidental, consequential or otherwise.

We encourage you to register your new O.H.M Amp Headphone Matching Amplifier in our web in order to better manage any warranty related issues at: <https://.heritageaudio.com/registration/>.

This warranty is not transferable.

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P-LANE TYPE 436

ALL TUBE VARIMU COMPRESSOR

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Thank you for choosing the LANG P-LANE TYPE 436 ALL VARIMU COMPRESSOR. After several years studying where the true sound of New York lies, the immediacy, the fast response, the *in your face* vibrant sound of the capital of the world, the P-LANE is inspired in the vibrant UK scene of the 60s and 70s at an affordable price.

We

Peter Rodríguez
CEO

LANG ELECTRONICS INC, - Madrid, Spain

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- 1 O.H.M Amp
- 1 Universal 30V Power Supply
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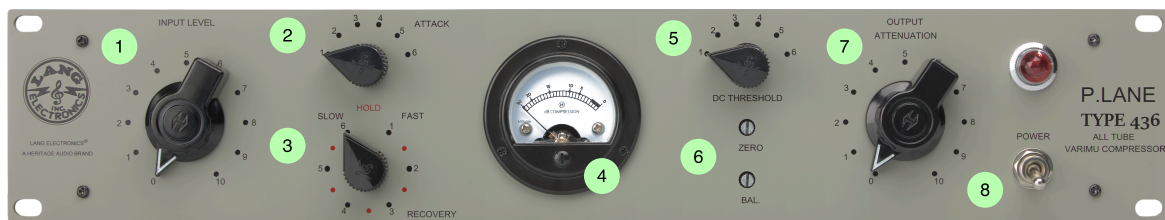


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The O.H.M Amp also provides two different ways to connect your headphones, independent 6.35 and 3.5 mm (1/4" and 1/8") built-in jack connections on the front of the O.H.M Amp are provided so you can finally forget about noisy adapters...seriously, why hasn't anyone thought of that before?.





- 1 **INPUT LEVEL:** 1/4" (6.35 mm) TRS.
- 2 **ATTACK:** 1/8" (3.5 mm) TRS.
- 3 **RECOVERY:** Knob selector for adjusting the impedance to your headphones.
- 4 **DC THRESHOLD:** Reset the Bluetooth sync (Hold for 10 sec).
- 6 **OUTPUT ATTENUATION:** Choose between Bluetooth, Balanced or Unbalanced inputs.
- 5 **POWER:** Output volume adjustment.





- 1 **POWER:** Turns the O.H.M Amp ON/OFF
- 2 **POWER:** 30VDC. Only use the included power supply.
- 3 **THRU OUTPUT:** 1/4" (6.35 mm) TRS L&R.
- 4 **UNBALANCED RCA:** RCA Unbalanced Inputs L&R.
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INPUTS: The O.H.M Amp provides three ways for signal input on the back of the unit. Gold plated RCA connectors are available for the unbalanced input as well as two combo XLR/Jack 1/4" for balanced input and the Bluetooth antenna receiver. You can easily select your input source by pressing the white buttons on the front of the unit.

IMPEDANCE SELECTOR: The O.H.M Amp's impedance selector allows you to accommodate its impedance to your headphone's impedance for optimal performance. Please check your headphone's OHM rating to match it with the O.H.M Amp's.

LEVEL KNOB: Use the level knob to adjust the output volume delivered to your headphones. We have chosen to use the legendary Alps "Blue Velvet" potentiometer to enhance the user experience with its silky smooth feel.

HEADPHONE OUT CONNECTORS: 2 different headphone out connectors had been implemented into the O.H.M Amp for the user's convenience. Avoid using an adapter by choosing the right connection to pair with your headphones, either Jack 1/8" or Jack 1/4". In the event that both outputs are connected, only the Jack 1/4" will go through.

MASTER LEVEL CONTROL KNOB: The audiophile-grade output level Alps "Blue Velvet " potentiometer will allow the user to adjust the overall volume of the O.H.M Amp.

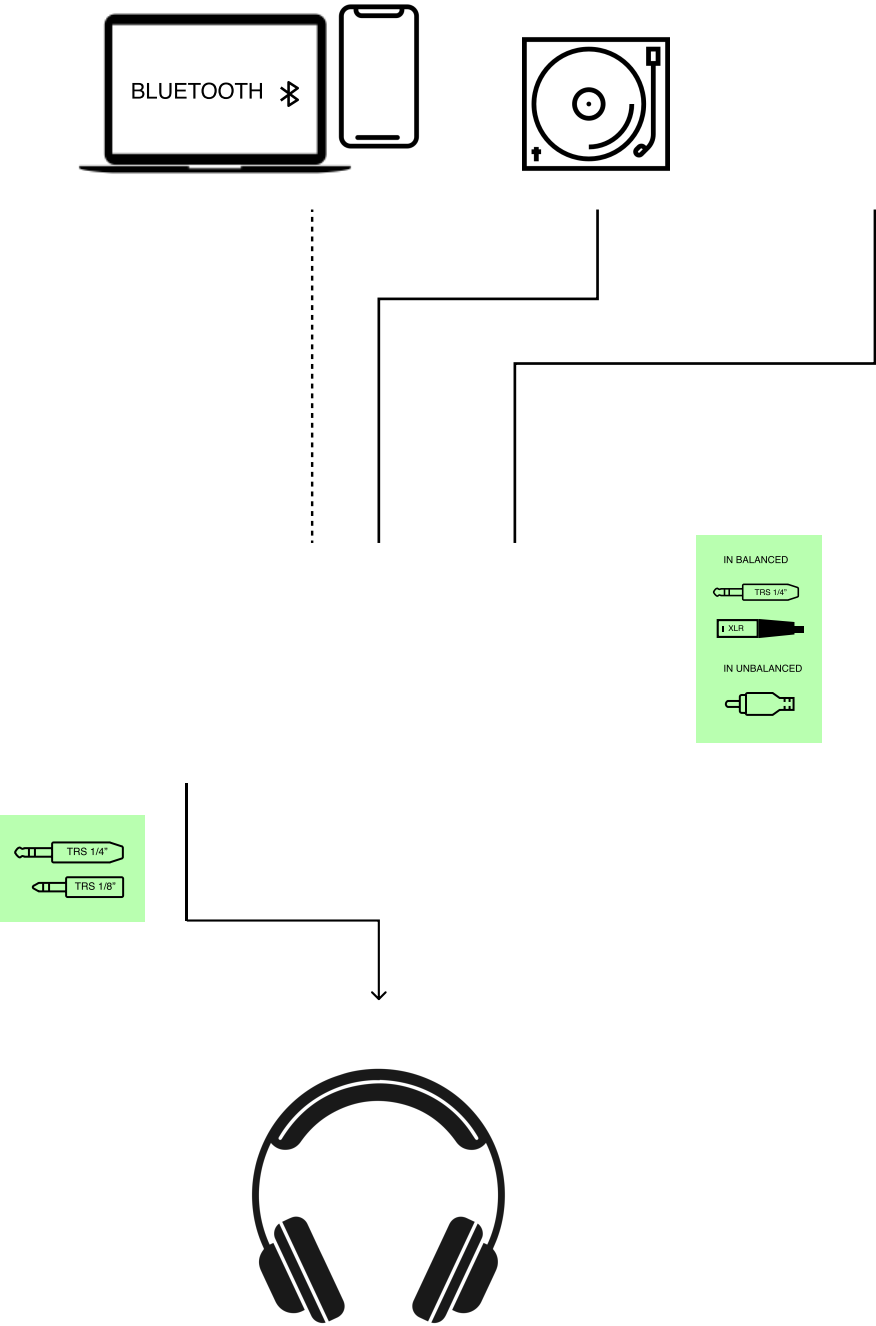
BLUETOOTH RESET BUTTON: It allows to disconnect any existing bluetooth device that is paired with the O.H.M Amp. For further instructions on how to connect to the O.H.M Amp's Bluetooth, please go to the next section on this user manual.

THRU OUTPUT: The O.H.M Amp's thru output allows you to take advance of its audiophile grade Burr Brown Op Amps and connect it to external monitors. This feature also allows you to use the O.H.M Amp as a Hi-Fi Bluetooth receiver, benefiting from its Burr Brown Digital to Analog Converter. Finally, the thru output allows for easy daisy chain several O.H.M Amps.

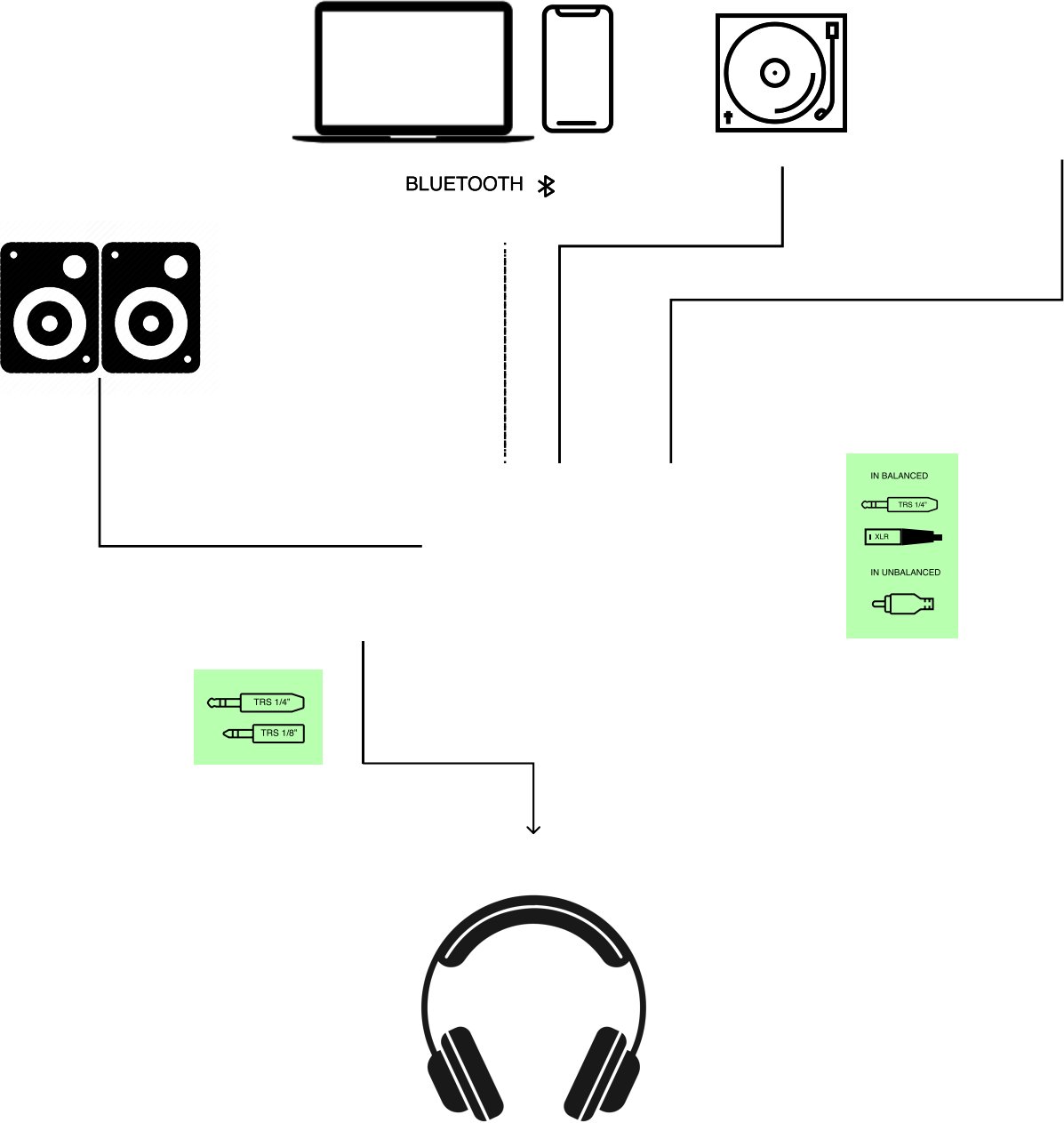




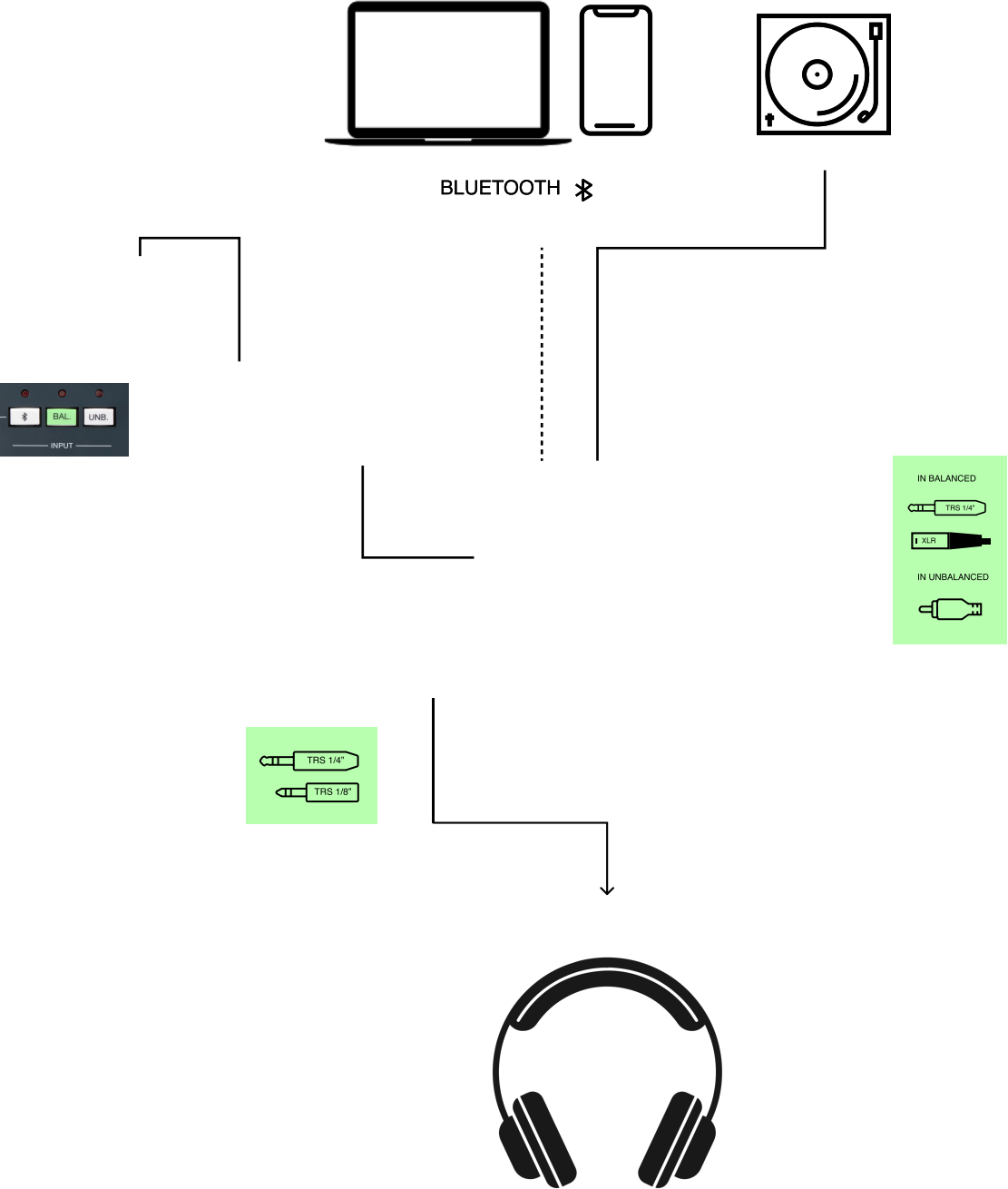
STANDARD SET UP



STANDARD SET UP WITH MONITOR OUT USING THE THRU



DAISY CHAIN SEVERAL O.H.M AMPS



- The O.H.M Amp is the first ever impedance headphone matching amplifier that accommodates to your headphones to bring them to their full potential.
- Full connectivity including independently selectable balanced, gold-plated unbalanced and Bluetooth inputs.
- Audiophile-grade output level Alps "Blue Velvet " potentiometer.
- Discrete diamond buffers as seen on Heritage Audio's high-end R.A.M System models.
- Burr Brown Op Amps for extreme fidelity and ultra low noise response.
- Pro quality Bluetooth receiver (codecs: APTX, APTX LL, AAC, APTX HD and SBC) with Burr Brown DAC.
- Independent 6.35 and 3.5 mm (1/4" and 1/8") jack connectors to forget about noisy adapters.
- Thru output for chaining several O.H.M Amps or using it as a top grade Bluetooth receiver.
- External low-noise, high voltage power supply (30V) for incredible power delivery at any impedance, ensuring an adequate dynamic range, signal to noise ratio and an ultra low harmonic distortion performance.

MAXIMUM INPUT LEVELS

"A" XLR I/P: +22.8 dBu @1kHz

"B" RCA I/P: +14.7dBu @1kHz,

"C" 3.5mm I/P: +3.3dBu @1kHz

OUTPUT POWER

As measured with typical headphones, $Z=44\ \Omega$: 3.617 VAC RMS @1kHz = 300mW RMS

16 Ω typical Load: 1.933 VAC RMS @1kHz = 230mW RMS

150 Ω typical Load: 5.108 VAC RMS @1kHz = 175mW RMS

OUTPUT IMPEDANCE

.08 Ω @ 1KHz, 16-150 Ω load, 0dBu input

FREQUENCY RESPONSE

+/- .2dB from 10Hz to 120KHz

NOISE

Measured with typical headphones, $Z=44\ \Omega$, BW 22Hz – 22kHz

"A" XLR Input: -101.9dBV,

"B" RCA Input: -100.9dBV

"C" 3.5mm Input: -88.8dBV

DIMENSIONS

6.5" wide x 4.6" deep and 1.9" tall

POWER SUPPLY REQUIREMENTS

30VDC @ 0.25Amp (6 watt) minimum. Use with supplied power adapter, as this has been carefully designed for best output power and noise performance.



PROBLEMS	SOLUTIONS
There is no sound coming from my O.H.M Amp.	Make sure that the LEVEL knob is not turned all the way down.
There is still no sound coming from my O.H.M Amp.	Make sure you have selected an INPUT source. (Bal/Unbal/Bluetooth)
I cannot hear anything out of the 1/8" minijack output.	Make sure that you do not have anything plugged into the 1/4" output as that will take priority over the 1/8" output.
I cannot get my Bluetooth to sync up with the O.H.M Amp.	Please go through the RESET process so the O.H.M Amp can find the best CODEC available for transmission.
My unit does not seem to be able to power on.	Make sure that you have the PSU properly connected to its input.
I cannot seem to properly mount my O.H.M Amp on a MIC stand.	You might have a MIC stand with a smaller head, 3/8". A 5/8" to 3/8" adaptor will be necessary.
I am not getting a good signal when using the THRU outputs of the O.H.M Amp.	Make sure you are using good, balanced TRS cables/connectors.
I've noticed a bit of noise when using the BALANCED inputs.	Those inputs are designed to be used with BALANCED cables/connections. Use TRS 1/4" or XLR cables/connectors.



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We encourage you to register your new O.H.M Amp Headphone Matching Amplifier in our web in order to better manage any warranty related issues at: <https://.heritageaudio.com/registration/>.

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SILVERR 47[®]

DUAL TUBE MIC PREAMP

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- 1 **INPUT LEVEL:** 1/4" (6.35 mm) TRS.
- 2 **ATTACK:** 1/8" (3.5 mm) TRS.
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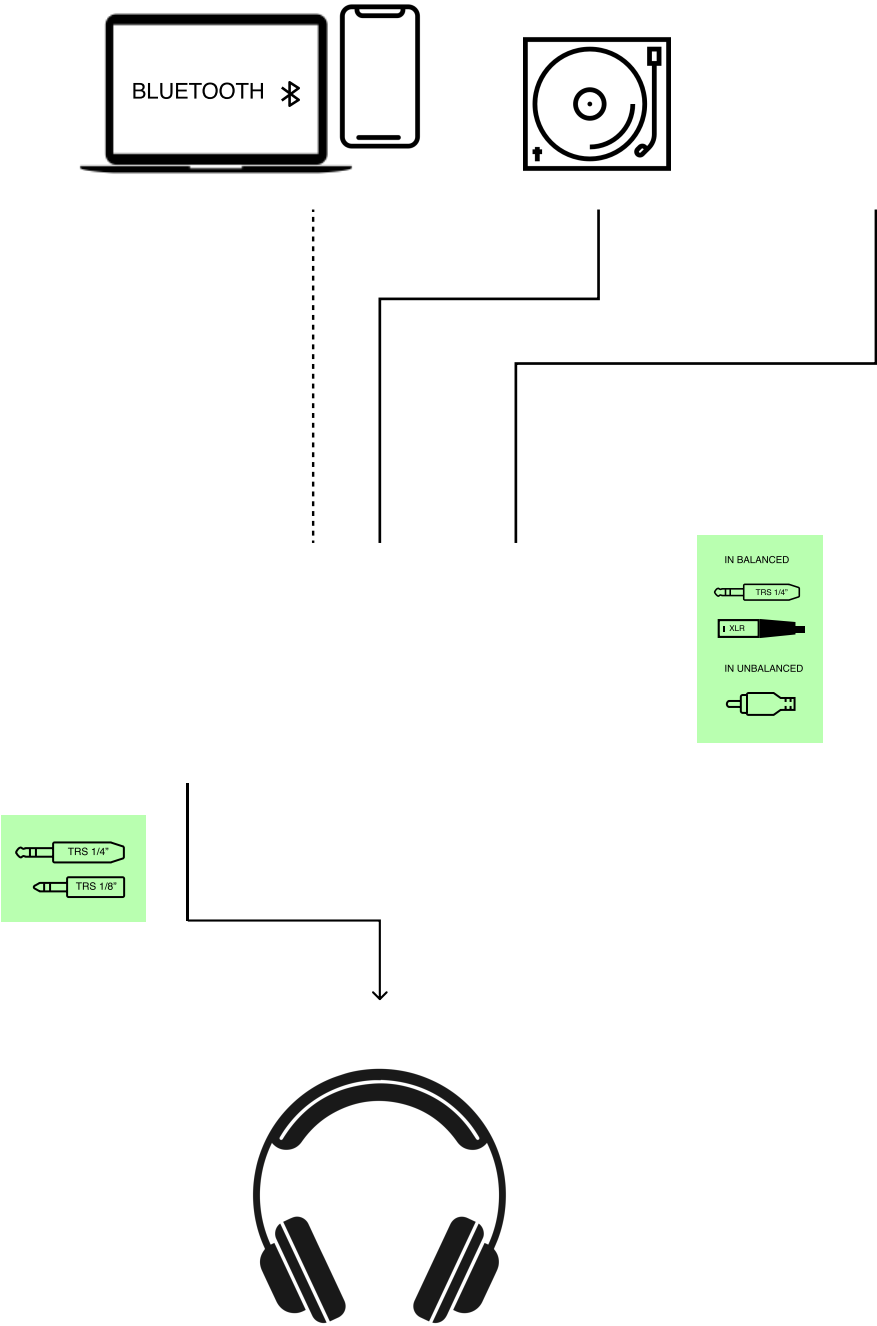
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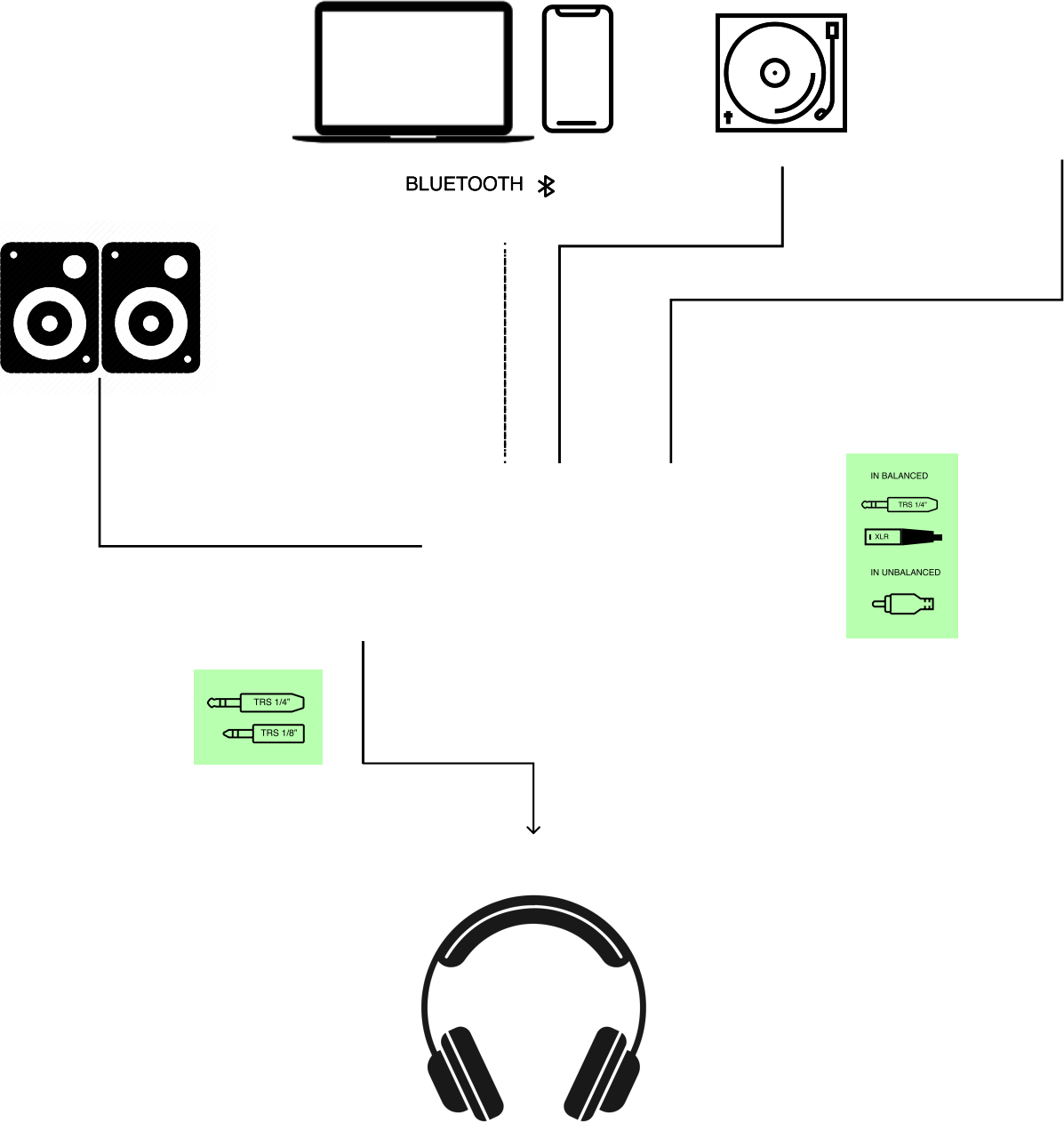




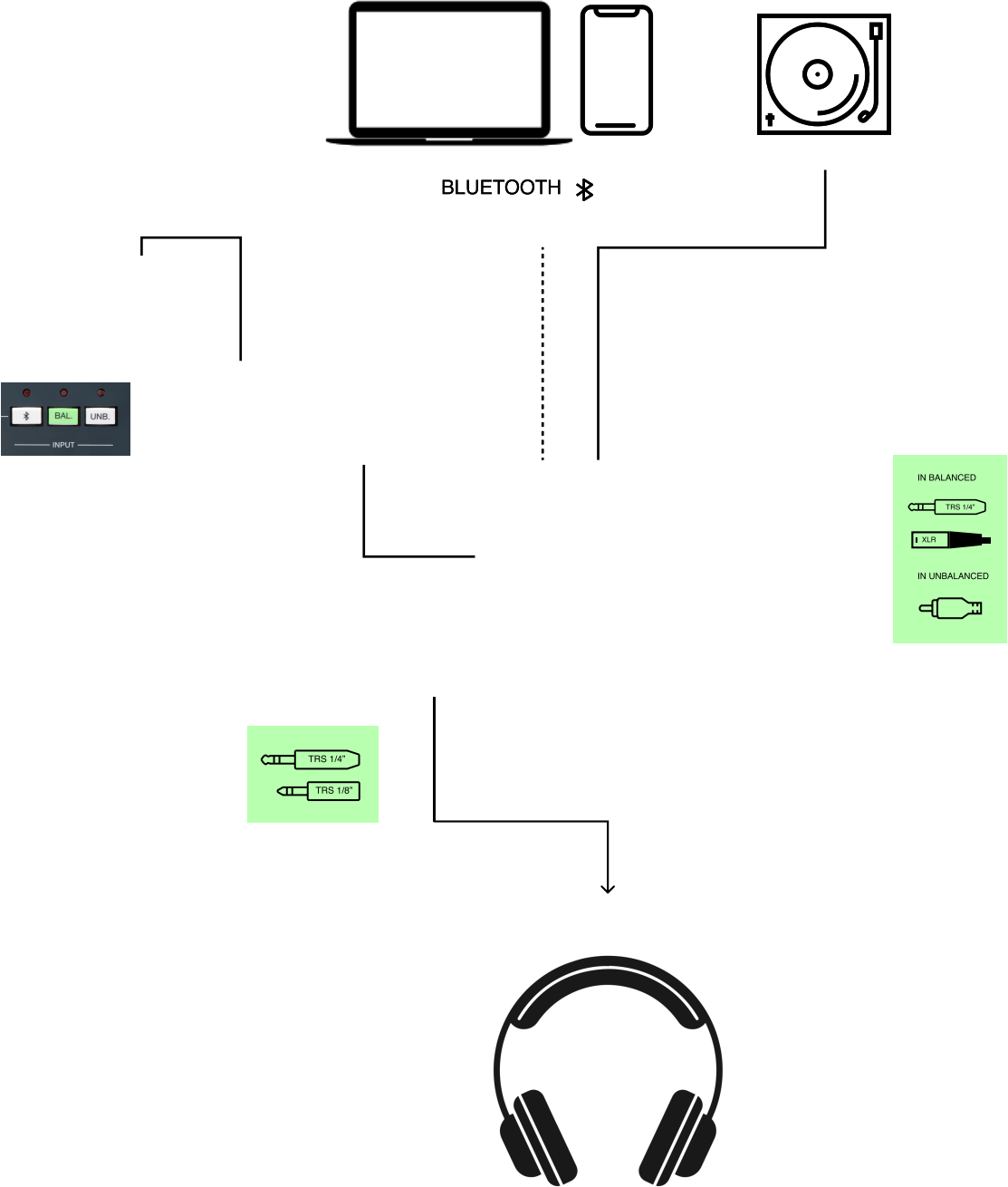
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"C" 3.5mm I/P: +3.3dBu @1kHz

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16 Ω typical Load: 1.933 VAC RMS @1kHz = 230mW RMS

150 Ω typical Load: 5.108 VAC RMS @1kHz = 175mW RMS

OUTPUT IMPEDANCE

.08 Ω @ 1KHz, 16-150 Ω load, 0dBu input

FREQUENCY RESPONSE

+/- .2dB from 10Hz to 120KHz

NOISE

Measured with typical headphones, $Z=44\ \Omega$, BW 22Hz – 22kHz

"A" XLR Input: -101.9dBV,

"B" RCA Input: -100.9dBV

"C" 3.5mm Input: -88.8dBV

DIMENSIONS

6.5" wide x 4.6" deep and 1.9" tall

POWER SUPPLY REQUIREMENTS

30VDC @ 0.25Amp (6 watt) minimum. Use with supplied power adapter, as this has been carefully designed for best output power and noise performance.



PROBLEMS	SOLUTIONS
There is no sound coming from my O.H.M Amp.	Make sure that the LEVEL knob is not turned all the way down.
There is still no sound coming from my O.H.M Amp.	Make sure you have selected an INPUT source. (Bal/Unbal/Bluetooth)
I cannot hear anything out of the 1/8" minijack output.	Make sure that you do not have anything plugged into the 1/4" output as that will take priority over the 1/8" output.
I cannot get my Bluetooth to sync up with the O.H.M Amp.	Please go through the RESET process so the O.H.M Amp can find the best CODEC available for transmission.
My unit does not seem to be able to power on.	Make sure that you have the PSU properly connected to its input.
I cannot seem to properly mount my O.H.M Amp on a MIC stand.	You might have a MIC stand with a smaller head, 3/8". A 5/8" to 3/8" adaptor will be necessary.
I am not getting a good signal when using the THRU outputs of the O.H.M Amp.	Make sure you are using good, balanced TRS cables/connectors.
I've noticed a bit of noise when using the BALANCED inputs.	Those inputs are designed to be used with BALANCED cables/connections. Use TRS 1/4" or XLR cables/connectors.



LIMITED 2 YEAR WARRANTY

Heritage Audio's O.H.M Amp is warranted by Heritage Audio S.L. to be free from defects in materials and workmanship for the period of 2 years to the original purchaser. In the event of such defects, the product will be repaired without charge or, at our option, replaced with a new one if delivered to Heritage Audio prepaid, together with a copy of the sales slip or other proof of purchase date. The warranty excludes problems due to normal wear, abuse, shipping damage or failure to use the product in accordance with the specifications. Heritage Audio shall not be liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation or commercial loss or any other damages, whether incidental, consequential or otherwise.

We encourage you to register your new O.H.M Amp Headphone Matching Amplifier in our web in order to better manage any warranty related issues at: <https://.heritageaudio.com/registration/>.

This warranty is not transferable.

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