



Sonaris Vienna Amp

Fully-Discrete Class-A Fully-Balanced Headphone Amp

User Manual

Preface

Dear Customer,

Congratulations on choosing the Vienna Amp by Sonaris! With this high-quality headphone amplifier, you've selected an audio product that offers an exceptional music experience and outstanding sound quality. We are confident that you will appreciate the impressive performance and precise sound reproduction of this device.

To ensure the optimal use and functionality of your Vienna Amp, we recommend reading this manual carefully. It provides valuable information about the device's special features and how to operate it correctly.

Please also pay close attention to the accompanying safety instructions. These are essential for the safe operation of the product. If you pass the device on to others, make sure they also receive the safety instructions.

We wish you many enjoyable listening sessions and an excellent experience with your new Vienna Amp!

Caution: High Volume Levels

Excessive volume can damage your headphones or speakers and may cause hearing loss. Always ensure that the volume is set to a low level when powering on the device, connecting new equipment, or switching functions.

Introduction

The Vienna Amp is a high-quality, fully balanced Class-A headphone amplifier that stands out with its minimalist design and exceptional sound quality. Featuring a fully balanced amplifier circuit, the Vienna Amp offers two amplification stages and two power regulation modes for optimal performance. On the front panel, you will find a balanced 4.4mm headphone output as well as an unbalanced 6.35mm headphone output. On the rear panel, you have access to balanced 6.35mm TRS and unbalanced RCA preamp outputs. This powerful amplifier ensures you can enjoy a pure, detailed listening experience.

Functions

The Vienna Amp is more than just a headphone amplifier – it can also be used as a preamplifier, making it a versatile audio device for various applications. Depending on your needs, both the inputs and outputs can be either balanced or unbalanced. To meet the demands of different headphones and personal preferences, you can choose between low and high gain, as well as two different power modes (both Class-A).

Active Temperature Management

As with all Class-A amplifiers, the Vienna Amp generates high temperatures during operation. However, its solid construction ensures effective heat dissipation. If the temperature reaches a critical point, the system will automatically switch to a lower power mode that generates less heat, ensuring safe operation even during prolonged listening sessions.

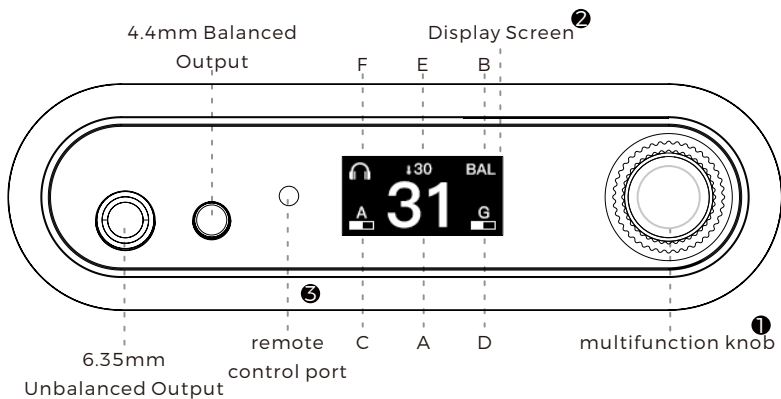
Preparation

Connect the power supply to the Vienna Amp (DC).

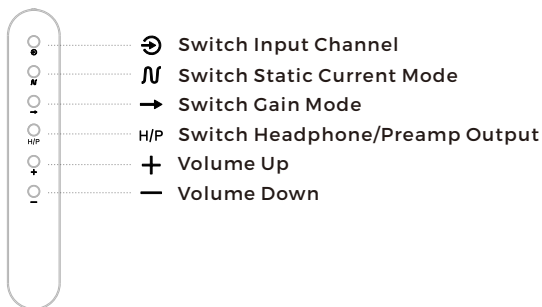
Switch on the Vienna Amp using the main power switch (SW) on the back of the device.

(When not in use, turn off the device using the main switch. If the device will not be used for an extended period, also unplug the power cord.)

Front Panel View



- ① 1. Turn the knob to adjust volume (Max: 31)
 2. Single-press the knob to change the input.
 3. Double-press the knob to switch between high and low static current.
 4. Press and hold the knob to access the settings menu, where you can switch between Headphone Amp and Preamp modes, and adjust between High and Low Gain.
- ② A: Indicates the current volume level
 B: Indicates the current input channel
 C: Indicates the current static current mode
 D: Indicates the current gain status
 E: Indicates the current internal transistor temperature
 F: Indicates the current output channel
- ③ Remote control not included; available separately.



Rear Panel View

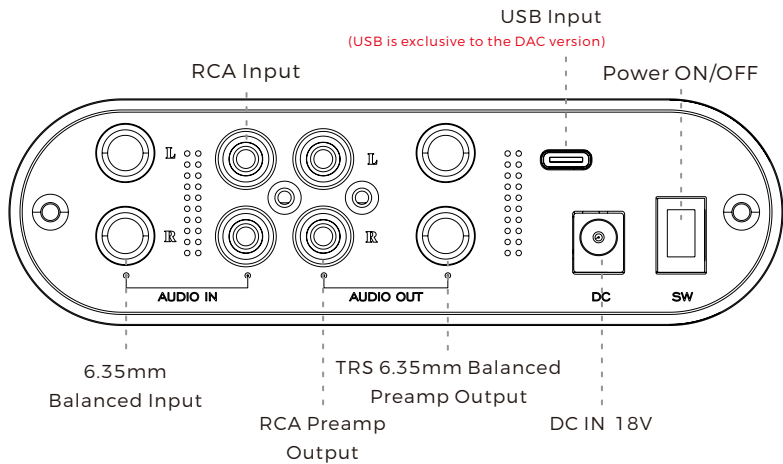


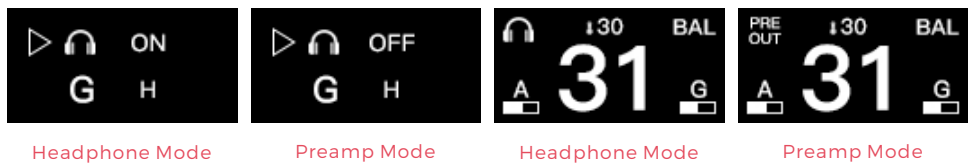
Diagram of Supported Plug Phases for TRS Ports



TRS to XLR cables or adapters are available on the audio accessories market; both use balanced connection standards.

Setting Menu

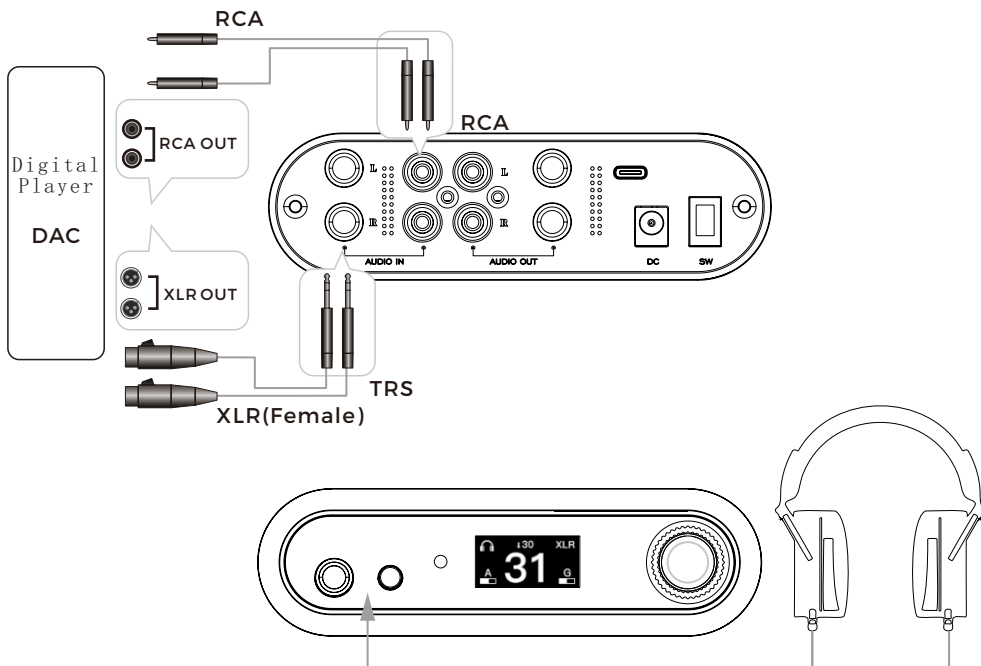
Press and hold the multifunction-knob to access the settings menu. In the first line, select between Headphone Output and Preamp Mode. In the second line, choose between High and Low Gain. Confirm your selection with a single press. The menu can be exited by pressing and holding the knob, or it will close automatically after 10 seconds.



Operating Instructions (1)

Headphone Amplifier Mode

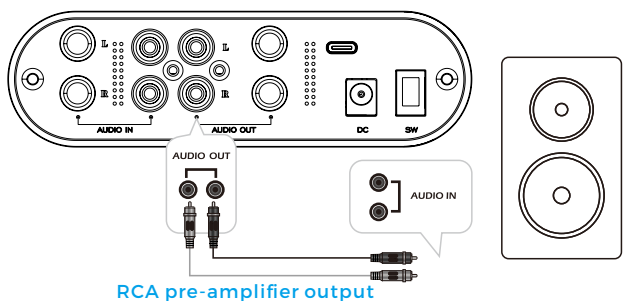
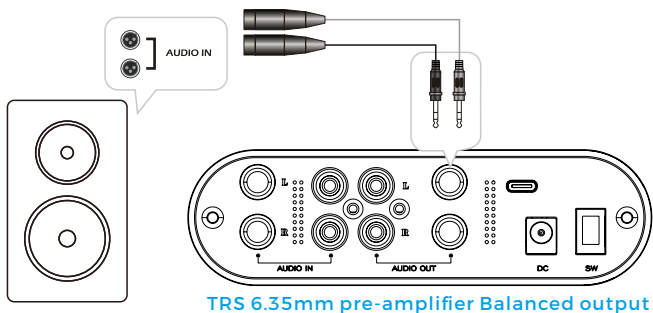
1. Turn the volume down to a low level.
2. Connect your audio source to the corresponding RCA or TRS input (Audio In).
3. Ensure the device is set to Headphone Amp mode.
(Press and hold the multifunction knob to switch to the correct mode.)
4. Select the correct input channel.
(Single-press the multifunction knob to cycle through inputs.)
5. Connect your headphones or IEMs to the front port.
6. Set the appropriate Gain level for your headphones.
(Press and hold the multifunction knob to adjust the Gain. Caution: Changing the Gain can cause a sudden increase in volume.)
7. Set the static current.
(Double-click the multifunction knob to toggle the static current.)
8. Adjust the volume to a comfortable and accurate listening level.



Operating Instructions (2)

Pre-amplifier Mode

1. Turn the volume down to a low level.
2. Connect your audio source to the corresponding RCA or TRS input (Audio In).
3. Ensure the device is set to Preamplifier mode.
(Press and hold the multifunction knob to switch to the correct mode.)
4. Connect your speaker amp or active speakers on the back to the corresponding RCA or TRS output (Audio Out).
5. Select the correct input channel.
(Single-press the multifunction knob to cycle through inputs.)
6. Set the appropriate Gain level for your headphones.
(Press and hold the multifunction knob to adjust the Gain. Caution: Changing the Gain can cause a sudden increase in volume.)
7. Set the static current.
(Double-click the multifunction knob to toggle the static current.)
8. Adjust the volume to a comfortable and accurate listening level.



Specifications

Input and Output Impedance:

RCA Input Impedance: $10\text{K}\Omega$

RCA Preamp Output Impedance: 200Ω

TRS(BAL) Input Impedance: $10\text{K}\Omega$

TRS(BAL) Preamp Output Impedance: 100Ω

6.35mm Unbalanced Output / 4.4mm Balanced Output Impedance: 1Ω

6.35mm Unbalanced Output:

Frequency Response (20Hz~80kHz): $\pm 0.05\text{dB}$

Total Harmonic Distortion + Noise: $< 0.0004\%$ @1kHz

Signal-to-Noise Ratio: $> 115\text{dB}$ @600 Ω

Channel Separation: $< -105\text{dB}$ @1kHz, 600 Ω

4.4mm Balanced Output:

Frequency Response (20Hz~80kHz): $\pm 0.05\text{dB}$

Total Harmonic Distortion + Noise: $< 0.00022\%$ @1kHz

Signal-to-Noise Ratio: $> 116\text{dB}$ @600 Ω

Channel Separation: $< -110\text{dB}$ @1kHz, 600 Ω

Overall Dimensions: 200*140*52 (mm)

Product Accessories: Main Unit x1 / Power Cable x1 / 6.35mm Male to

3.5mm Female Adapter x1 / User Manual x1

Output Power

G-L (Low Gain) Unbalanced Output	Load	Power
	32Ω	470mW
	100Ω	158mW
	150Ω	106mW
	200Ω	80mW
	250Ω	64mW
	300Ω	53mW
	470Ω	34mW
	600Ω	27mW

G-L (High Gain) Unbalanced Output	Load	Power
	32Ω	1432mW
	100Ω	479mW
	150Ω	322mW
	200Ω	245mW
	250Ω	196mW
	300Ω	163mW
	470Ω	104mW
	600Ω	82mW

G-L (Low Gain) Balanced Output	Load	Power
	32Ω	1757mW
	55Ω	1069mW
	90Ω	676mW
	100Ω	616mW
	150Ω	416mW
	200Ω	314mW
	250Ω	251mW
	300Ω	209mW
	470Ω	133mW
	600Ω	104mW

G-L (High Gain) Balanced Output	Load	Power
	32Ω	5280mW
	55Ω	3240mW
	90Ω	2025mW
	100Ω	1845mW
	150Ω	1256mW
	200Ω	952mW
	250Ω	761mW
	300Ω	634mW
	470Ω	405mW
	600Ω	317mW



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