

Violectric V222

Violectric V222 Headphone Amplifier User Manual

Model: V222 | Brand: Violectric

1. INTRODUCTION

The Violectric HPA V222 is a high-performance balanced headphone amplifier designed to deliver an exceptional audio experience. Building upon the legacy of its predecessors, the HPA V200 and HPA V280, the V222 offers a natural, pleasant, and precise sound reproduction. This manual provides essential information for the proper setup, operation, and maintenance of your Violectric V222 Headphone Amplifier.

2. SAFETY INSTRUCTIONS

Please read and follow these safety instructions carefully before operating the device to prevent damage and ensure safe use.

- Do not expose the device to rain or moisture.
- Do not open the casing. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Ensure proper ventilation around the unit. Do not block ventilation openings.
- Disconnect the power cable from the mains outlet during lightning storms or when unused for long periods.
- Avoid placing the unit near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only attachments/accessories specified by the manufacturer.
- **ATTENTION !! RISK OF ELECTRICAL SHOCK! PULL MAINS PLUG BEFORE OPENING !!**

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Violectric V222 Headphone Amplifier

- Power Cable
- User Manual (this document)

4. PRODUCT OVERVIEW

4.1 Front Panel

The front panel of the Vioelectric V222 features all primary controls and headphone outputs for easy access.



Figure 4.1: Front Panel Layout

This image displays the front of the Vioelectric V222. From left to right, it shows a large volume knob, an input selector switch (XLR/RCA), indicator LEDs for the selected input, a 4-pin XLR balanced headphone output, a 6.3mm unbalanced headphone output, and a power button with an indicator LED.

- **Volume Knob:** Controls the output volume for all headphone outputs.
- **Input Selector Switch:** Toggles between XLR (balanced) and RCA (unbalanced) line inputs.
- **Input Indicator LEDs:** Illuminate to show the currently selected input (XLR or RCA).
- **Headphone Outputs:**
 - 1 x 4-pin XLR balanced output
 - 1 x Pentaconn symmetrical output
 - 1 x 6.3 mm jack unbalanced output
- **Power Button:** Turns the amplifier on or off.
- **Power Indicator LED:** Shows the power status of the unit.

4.2 Rear Panel

The rear panel houses the power input, line inputs, and pre-gain DIP switches.



Figure 4.2: Rear Panel Layout

This image shows the rear panel of the Vioelectric V222. It includes the AC power inlet, voltage selection switches (115 VAC / 230 VAC), balanced XLR inputs (Left and Right), unbalanced RCA inputs (Left and Right), and two sets of pre-gain DIP switches for Left and Right channels.

- **AC Power Inlet:** For connecting the supplied power cable.
- **Voltage Selector:** Switches for 115 VAC or 230 VAC operation. **Ensure this is set correctly for your region before connecting power.**
- **Balanced XLR Inputs:** Left and Right inputs for balanced audio sources.
- **Unbalanced RCA Inputs:** Left and Right inputs for unbalanced audio sources.
- **Pre-Gain DIP Switches:** Allows adjustment of the input gain for each channel.



Figure 4.3: Pre-Gain DIP Switches

This close-up image highlights the pre-gain DIP switches on the rear panel. There are two sets of four switches, one for the Left channel and one for the Right channel, allowing for precise gain adjustment from -18 dB to +18 dB.

5. SETUP

5.1 Power Connection

1. Before connecting the power cable, ensure the **Voltage Selector** on the rear panel is set to the correct voltage for your region (115 VAC or 230 VAC). Incorrect voltage selection can damage the unit.
2. Connect the supplied power cable to the AC Power Inlet on the rear panel of the V222.
3. Plug the other end of the power cable into a suitable wall outlet.

5.2 Audio Input Connection

The V222 supports both balanced XLR and unbalanced RCA inputs.

- **For Balanced Sources (e.g., DAC with XLR outputs):** Connect your source device's XLR outputs to the "BAL IN" XLR inputs on the V222's rear panel.
- **For Unbalanced Sources (e.g., DAC with RCA outputs):** Connect your source device's RCA outputs to the "UNBAL IN" RCA inputs on the V222's rear panel.

5.3 Headphone Output Connection

The V222 offers multiple headphone output options:

- **4-pin XLR Balanced:** For headphones with a 4-pin XLR balanced connector.



Figure 5.1: 4-pin XLR Output

This image provides a close-up view of the 4-pin XLR balanced headphone output jack on the front panel, labeled "NEUTRIK".

- **Pentaconn Symmetrical:** For headphones with a Pentaconn symmetrical connector.
- **6.3 mm Jack Unbalanced:** For headphones with a standard 6.3mm (1/4 inch) unbalanced stereo jack.

Connect your headphones to the appropriate output jack on the front panel.

5.4 Pre-Gain Adjustment (DIP Switches)

The V222 features adjustable pre-gain settings via DIP switches on the rear panel. This allows you to optimize the amplifier's gain for different headphones and source levels, ensuring optimal performance and preventing clipping or excessive noise.

Refer to Figure 4.3 for the location of the DIP switches. Each channel (Left and Right) has four switches, allowing for gain adjustments from -18 dB to +18 dB. Consult the table below for common settings or experiment to find the best setting for your specific headphones and listening preferences.

Table 5.1: Pre-Gain DIP Switch Settings (Example)

Gain Setting	DIP Switch Configuration (1-4)	Recommended Use Case
-18 dB	All OFF	Very sensitive IEMs or high-output sources.
0 dB	Specific combination (e.g., 1 ON, others OFF)	Standard setting for many headphones.
+18 dB	All ON	Very inefficient headphones or low-output sources.

Note: The exact combination for each gain step is usually detailed in the manufacturer's full technical manual. Adjust these settings with the amplifier powered off.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

1. Ensure your headphones are connected and the volume knob is set to a low level before powering on.
2. Press the **Power Button** on the front panel to turn the unit on. The power indicator LED will illuminate.
3. To turn off the unit, press the **Power Button** again. The power indicator LED will turn off.

6.2 Input Selection

Use the **Input Selector Switch** on the front panel to choose between the XLR (balanced) and RCA (unbalanced) inputs. The corresponding LED will light up to indicate the active input.

6.3 Volume Control

Adjust the **Volume Knob** on the front panel to achieve your desired listening level. Always start with a low volume and gradually increase it to a comfortable level to protect your hearing and equipment.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place.

8. TROUBLESHOOTING

Table 8.1: Common Issues and Solutions

Problem	Possible Cause	Solution
No power	Power cable not connected; Wall outlet not active; Incorrect voltage selection.	Check power cable connection; Test wall outlet; Verify Voltage Selector setting on rear panel.
No sound	Incorrect input selected; Source device not playing; Headphones not connected properly; Volume too low.	Select correct input (XLR/RCA); Ensure source is playing; Check headphone connection; Increase volume.
Distorted sound	Input signal too high; Incorrect pre-gain setting; Faulty cable.	Reduce source volume; Adjust pre-gain DIP switches (lower gain); Try different cables.
Humming or buzzing noise	Ground loop; Interference from other electronics; Faulty cable.	Ensure proper grounding; Move unit away from other electronics; Try different cables.

9. SPECIFICATIONS

Table 9.1: Technical Specifications

Feature	Detail
Model Name	Vioelectric V222 Headphone Amplifier
Connectivity Technology	Wired
Input Interfaces	Stereo XLR (balanced), Stereo RCA (unbalanced)
Output Interfaces	1 x 4-pin XLR balanced, 1 x Pentaconn symmetrical, 1 x 6.3 mm jack unbalanced
Color	Black
Manufacturer	Vioelectric
Product Dimensions	13.39 x 9.84 x 5.9 inches
Item Weight	6.18 pounds
Special Feature	Volume Control, Adjustable Pre-Gain
Internal Operating Voltage	50 volts (for high output voltage)
Key Features	Low Noise, High Output Voltage, High Output Power, High Damping Factor

10. WARRANTY AND SUPPORT

Vioelectric products are manufactured to the highest quality standards. For information regarding warranty coverage and technical support, please refer to the warranty card included with your product or visit the official Vioelectric website. Keep your proof of purchase for warranty claims.

For further assistance, you may also contact your authorized Vioelectric dealer or the point of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question