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› [Avantone Pro CLA-200 Studio Reference Amplifier User Manual](#)

## Avantone CLA-200

# Avantone Pro CLA-200 Studio Reference Amplifier User Manual

Model: CLA-200

## 1. INTRODUCTION

The Avantone Pro CLA-200 is a high-performance, high-resolution studio reference amplifier designed for passive studio monitors. This Class AB amplifier delivers over 200 watts per channel into 8 ohms, providing reliable performance with very low distortion. Its convection-cooled design ensures silent operation, making it suitable for critical listening environments. This manual provides essential information for the safe and effective use of your CLA-200 amplifier.

## 2. IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions thoroughly before operating the unit.
- Keep these instructions for future reference.
- Heed all warnings on the product and in this manual.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 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.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from 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.

## 3. PACKAGE CONTENTS

Upon unpacking your Avantone Pro CLA-200 Studio Reference Amplifier, please ensure all items are present and in good condition:

- Avantone Pro CLA-200 Studio Reference Amplifier Unit
- AC Power Cable
- User Manual (this document)

If any items are missing or damaged, please contact your dealer immediately.

## 4. PRODUCT FEATURES

The Avantone Pro CLA-200 Studio Reference Amplifier offers the following key features:

- **Stereo Studio Reference Amplifier:** Provides 200W per channel into 8 ohms.
- **Class AB Design:** Ensures high fidelity and transparent audio reproduction.
- **Convection-Cooled Chassis:** Fanless operation for silent performance in studio environments.
- **Robust Build Quality:** Constructed with no-compromise components for reliable professional use.
- **Versatile Connectivity:** Features XLR inputs and Speakon/binding post outputs.
- **Selectable Operating Modes:** Supports Stereo, Parallel, and Bridge modes.
- **Dual VU Meters:** Provides visual monitoring of output levels.

## 5. CONTROLS AND CONNECTIONS

### 5.1 Front Panel



**Image 1:** Front view of the Avantone Pro CLA-200 amplifier, showing the volume controls, VU meters, and power switch.

- **Volume (Channel A / Channel B):** Independent rotary controls for adjusting the output level of each channel.
- **VU Meters:** Two analog meters displaying the output level for Channel A and Channel B.
- **Power Switch:** Toggles the amplifier's main power on or off.

### 5.2 Rear Panel



**Image 2:** Rear view of the Avantone Pro CLA-200 amplifier, detailing the input/output connections, voltage selector, and mode switch.

- **Voltage Select:** Switch to select between 115V and 230V AC input voltage. **Ensure this is set correctly for your region before connecting power.**

- **AC Inlet:** Standard IEC power connector for the AC power cable.
  - **Inputs (XLR):** Balanced XLR input connectors for Channel A and Channel B.
  - **Link (XLR):** XLR output connectors that mirror the input signal, allowing for daisy-chaining to other amplifiers.
  - **Outputs (Speakon / Binding Posts):** Speaker output connectors for Channel A and Channel B. Both Speakon and binding post terminals are provided.
  - **Mode Selector:** Switch to select the amplifier's operating mode:
    - **Parallel:** Both channels receive the same input signal from Channel A, driving two separate speakers.
    - **Bridge:** Combines both channels into a single, higher-power mono output. Use only one speaker connected to the designated bridge output.
    - **Stereo:** Each channel operates independently, with separate inputs and outputs.
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## 6. SETUP

Follow these steps to set up your CLA-200 amplifier:

1. **Unpacking and Placement:** Carefully remove the amplifier from its packaging. Place the unit on a stable, level surface or install it in a standard 19-inch equipment rack. Ensure adequate ventilation around the unit; do not block any vents.
  2. **Voltage Selection:** Locate the Voltage Select switch on the rear panel. **Verify that it is set to the correct voltage for your region (115V or 230V) before connecting the power cable. Incorrect voltage selection can cause severe damage to the unit.**
  3. **Input Connections:** Connect your audio source (e.g., audio interface, mixer) to the XLR Input connectors on the rear panel using balanced XLR cables. For stereo operation, connect to both Channel A and Channel B inputs.
  4. **Speaker Connections:** Connect your passive studio monitors to the Output connectors. You can use either Speakon cables or standard speaker cables with the binding posts. Ensure correct polarity (+ to + and - to -) for all connections. For stereo operation, connect one speaker to Channel A outputs and another to Channel B outputs. If using Bridge mode, refer to the rear panel diagram for the correct single speaker connection.
  5. **Mode Selection:** Set the Mode Selector switch to your desired operating mode (Stereo, Parallel, or Bridge) based on your setup requirements.
  6. **Power Connection:** With the amplifier's front panel power switch in the OFF position, connect the supplied AC power cable to the AC Inlet on the rear panel and then to a suitable wall outlet.
  7. **Initial Power On:** Turn the front panel volume controls to their minimum (fully counter-clockwise) position. Then, press the Power switch to turn on the amplifier. The VU meters should illuminate.
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## 7. OPERATING INSTRUCTIONS

Once the CLA-200 is set up, follow these guidelines for operation:

1. **Power On/Off Sequence:** Always power on your amplifier after turning on your audio source and power off your amplifier before turning off your audio source. This helps prevent transient pops or thumps that could damage your speakers.
  2. **Volume Adjustment:** Slowly increase the Volume controls for Channel A and/or Channel B to achieve your desired listening level. Observe the VU meters to monitor the output signal strength. Avoid consistently driving the amplifier into the red zone on the VU meters, as this indicates clipping and can cause distortion and potential speaker damage.
  3. **Monitoring:** Use the VU meters as a visual reference for your audio levels. They provide an indication of the average signal level.
  4. **Mode Usage:** Ensure the Mode Selector switch is set correctly for your application. Changing modes while the amplifier is operating is not recommended. Power off the unit before changing the mode.
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## 8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your CLA-200 amplifier:

- **Cleaning:** Disconnect the power cable before cleaning. Use a soft, dry cloth to wipe the exterior of the unit. Do not use liquid cleaners, aerosols, or solvents, as these can damage the finish or internal components.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris. Ensure there is always adequate airflow around the amplifier to prevent overheating.
- **Cable Connections:** Periodically check all audio and power cable connections to ensure they are secure. Loose connections can lead to signal loss or intermittent performance.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power, clean it, and store it in a dry, temperature-controlled environment, preferably in its original packaging.

## 9. TROUBLESHOOTING

If you encounter issues with your CLA-200 amplifier, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power	Power cable disconnected; Power switch off; Incorrect voltage selection; Blown fuse	Check power cable connection; Ensure power switch is ON; Verify voltage selector setting; Consult qualified service personnel for fuse replacement.
No sound from speakers	Input cables disconnected/faulty; Speaker cables disconnected/faulty; Volume controls at minimum; Incorrect mode selection; Source device not sending signal	Check all input and speaker cable connections; Increase volume; Ensure correct mode (Stereo/Parallel/Bridge); Verify audio source is active and sending signal.
Distorted sound	Input signal too high; Amplifier overdriven (clipping); Faulty cables; Damaged speaker	Reduce input signal level from source; Lower amplifier volume; Check VU meters for clipping; Inspect cables for damage; Test with different speakers if possible.
One channel not working	Faulty input/speaker cable for that channel; Incorrect mode selection (e.g., Bridge mode selected for stereo); Faulty speaker	Swap input/speaker cables to isolate fault; Ensure Stereo or Parallel mode is selected for two-channel operation; Test with a different speaker.
Overheating	Blocked ventilation; Excessive load; Prolonged high-level operation	Ensure clear airflow around the unit; Reduce speaker load if possible; Allow amplifier to cool down.

If the problem persists after attempting these solutions, please contact Avantone Pro customer support or your authorized dealer.

## 10. SPECIFICATIONS

Technical specifications for the Avantone Pro CLA-200 Studio Reference Amplifier:

- **Brand:** Avantone
- **Model Name:** CLA-200
- **Amplifier Type:** Class AB
- **Output Wattage:** 200 Watts per channel (into 8 ohms)
- **Output Channel Quantity:** 2
- **Audio Output Mode:** Stereo

- **Compatible Devices:** Passive Studio Monitors
  - **Connector Type:** XLR (Input), Speakon / Binding Post (Output)
  - **Power Source:** Corded Electric
  - **Color:** Black
  - **Material:** Stainless Steel
  - **Item Weight:** 34.7 Pounds (approx. 15.7 kg)
  - **Manufacturer:** Avantone Pro
  - **UPC:** 713541493476
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## 11. WARRANTY INFORMATION

The Avantone Pro CLA-200 Studio Reference Amplifier is covered by a **2-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Avantone Pro website or contact their customer support.

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## 12. SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact:

- Your authorized Avantone Pro dealer.
- Avantone Pro Customer Support (refer to the official Avantone Pro website for contact details).

Please have your product model (CLA-200) and serial number ready when contacting support.