

OSD Audio DAC-X-A100

OSD DAC-XA100 Power Amplifier

Instruction Manual

1. INTRODUCTION

Thank you for choosing the OSD DAC-XA100 100W RMS 2 Channel Class A Power Amplifier. This versatile amplifier is designed to provide high-quality audio for stereo or multi-room sound systems. Featuring a 24/192 Hi-Res DAC and dual line-level inputs, it allows for seamless integration of various audio sources, including automatic switching between a main source (like a TV) and a secondary 'Interrupt' source (such as a Bluetooth player or digital audio device). This manual will guide you through the setup, operation, and maintenance of your new amplifier to ensure years of reliable performance.

2. SAFETY INFORMATION

- **Power Source:** Connect the unit only to an AC power source as indicated on the unit.
- **Ventilation:** Ensure proper ventilation. Do not block ventilation openings. Install the unit in accordance with the manufacturer's instructions.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not use this apparatus near water.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Grounding:** Do not defeat the safety purpose of the polarized or grounding-type plug.
- **Power Cord Protection:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- **Servicing:** 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

Please check the box for the following items:

- OSD DAC-XA100 Power Amplifier
- Power Cord
- User Manual (this document)

4. PRODUCT OVERVIEW

4.1 Front Panel

The front panel of the DAC-XA100 features essential controls for power, speaker selection, and audio adjustments.



Image Description: This image shows the front panel of the OSD DAC-XA100 amplifier. From left to right, it features a circular power button with an indicator light, two green LED indicators labeled 'SPEAKERS' (A and B), a 'BALANCE' knob with left/right indicators, and a 'VOLUME' knob with min/max indicators.



Image Description: A close-up view of the right side of the OSD DAC-XA100 amplifier's front panel. It clearly shows the 'BALANCE' control knob, which adjusts the audio balance between left and right channels, and the 'VOLUME' control knob, which adjusts the overall sound level from minimum to maximum.

- **Power Button:** Turns the amplifier on or off.
- **Speaker Selectors (A/B):** Allows you to toggle between two pairs of speakers (A and B) for flexible listening configurations.
- **Balance Control:** Adjusts the audio balance between the left and right channels.
- **Volume Control:** Adjusts the overall output volume.

4.2 Rear Panel

The rear panel provides all the necessary input and output connections for your audio system.



Image Description: This image displays the rear panel of the OSD DAC-XA100 amplifier. It shows various input and output terminals, including RCA inputs (Main and Interrupt), a USB Type-A input, speaker binding posts for Speaker A and Speaker B, a 12V trigger input/output, and tone control knobs for Bass and Treble. The power inlet and product information labels are also visible.

- **Tone Controls (Bass/Treble):** Rear-mounted knobs for adjusting bass and treble frequencies.
- **RCA Line Inputs (Main and Interrupt):** Connect your primary audio source to 'Main' and a secondary, priority source to 'Interrupt'.
- **USB Audio Input:** For connecting a computer or other USB audio source, supporting 24-bit/192kHz hi-res audio.
- **Speaker Outputs (A/B):** Binding posts for connecting two pairs of speakers.
- **RCA Pass-Thru Output:** Allows the 'Main' input signal to be passed through to another amplifier or audio device.
- **12V Trigger In/Out:** For integrating with other components that support 12V trigger control.
- **Power Inlet:** For connecting the AC power cord.

5. SETUP

5.1 Placement

Place the amplifier on a stable, flat surface with adequate ventilation. Avoid placing it near heat sources or in enclosed spaces that could restrict airflow.

5.2 Connecting Speakers

The DAC-XA100 supports two pairs of speakers (A and B). Ensure your speakers are rated for 4 or 8 ohms impedance.

1. Connect the positive (+) terminal of your speaker to the red (+) binding post on the amplifier.
2. Connect the negative (-) terminal of your speaker to the black (-) binding post on the amplifier.
3. Repeat for all speakers, ensuring correct polarity for optimal sound.

5.3 Connecting Audio Sources

The amplifier features 'Main' and 'Interrupt' RCA inputs, as well as a USB Audio input.

- **Main Input:** Connect your primary audio source (e.g., TV, CD player) to the 'Main' RCA inputs.
- **Interrupt Input:** Connect a secondary audio source (e.g., Bluetooth receiver, portable music player) to the 'Interrupt' RCA inputs. The amplifier will automatically switch to this source when it detects an incoming signal, and switch back to 'Main' when the 'Interrupt' signal stops.
- **USB Audio Input:** Connect a USB cable from your computer or compatible device to the USB Type-A port for high-resolution digital audio playback.

5.4 Power Connection

Once all audio and speaker connections are made, connect the supplied power cord to the amplifier's power inlet and then to a suitable AC power outlet.

6. OPERATING

6.1 Powering On/Off

Press the Power button on the front panel to turn the amplifier on or off. The amplifier also features an Auto-On Sensing function, which will automatically turn the unit on when an audio signal is detected on the 'Main' or 'Interrupt' inputs.

6.2 Input Switching

The DAC-XA100 features automatic priority input switching:

- If a signal is detected on the 'Interrupt' input, the amplifier will automatically switch to this source.
- When the signal on the 'Interrupt' input ceases, the amplifier will automatically switch back to the 'Main' input.
- The USB Audio input is selected manually or takes priority if active.

6.3 Speaker Selection

Use the A/B speaker selector buttons on the front panel to choose which pair of speakers (A, B, or both) you wish to play audio through.

6.4 Volume and Tone Control

- **Volume:** Rotate the 'Volume' knob on the front panel clockwise to increase the volume and counter-clockwise to decrease it.
- **Balance:** Adjust the 'Balance' knob to shift the audio output between the left and right channels.

- **Bass/Treble:** Use the 'Bass' and 'Treble' control knobs located on the rear panel to fine-tune the low and high frequencies of your audio output.

7. MAINTENANCE

To ensure the longevity and optimal performance of your DAC-XA100 amplifier, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosol cleaners, as they may damage the finish or internal components.
- **Ventilation:** Periodically check that the ventilation openings are clear of dust and debris to prevent overheating.
- **Connections:** Ensure all cable connections are secure and free from corrosion.

8. TROUBLESHOOTING

If you encounter any issues with your OSD DAC-XA100 amplifier, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cord not connected; Power outlet not active; Amplifier in standby mode.	Ensure power cord is securely connected. Check power outlet with another device. Press the Power button on the front panel.
No sound output	Incorrect input selected; Speaker cables loose or incorrectly connected; Volume too low; Speaker A/B not selected.	Check input source selection. Verify all speaker connections and polarity. Increase volume. Ensure Speaker A or B (or both) is selected.
Distorted sound	Volume too high; Source signal too strong; Speaker impedance mismatch.	Reduce volume. Check source device output level. Ensure speakers are 4 or 8 ohms.
Automatic input switching not working	No signal detected on 'Interrupt' input; Signal on 'Interrupt' is too weak.	Ensure audio is playing from the 'Interrupt' source. Check cable connection to 'Interrupt' input.

9. SPECIFICATIONS

Detailed technical specifications for the OSD DAC-XA100 amplifier:

- **Amplifier Type:** Dual Source Automatic Switching Amplifier
- **Amplifier Class:** Class AB
- **Channels/Zones:** 2
- **Power Output @ 8 Ohm:** 50W(RMS)/120W(MAX) per channel, <0.2% THD
- **Power Output @ 4 Ohm:** 60W(RMS)/150W(MAX) per channel, <0.2% THD
- **Bridged Rating (Watts):** 150W, 1Hz, <0.2% THD
- **Frequency Response:** 10Hz-20kHz
- **Impedance:** 8 Ohm and 4 Ohm Stable

- **DAC:** CT7601+ES9018KM2, Supports 24Bit/192Khz
- **Transformer Type:** Fixed Mode
- **Input Terminals:** Stereo RCA x 2 (Main and Interrupt), USB Type A
- **Outputs:** Speakers A + B and Stereo RCA Pass Thru Main Line Input Only
- **Signal to Noise Ratio:** 100dB
- **Capacitors:** 2 x 6800 μ f
- **Cooling:** Air Cooled
- **Control:** Speaker Selector, Vol, Bass, Treble
- **12 Volt Triggers:** Yes
- **Auto-On Sensing:** Yes
- **Power Supply:** Fixed Mode
- **Rack Mountable:** No
- **Dimensions (L x D x H):** 16.5" x 9.5" x 2.9" (41.91 x 24.13 x 7.37 cm)
- **Weight:** 9.6 lbs (4.35 kg)
- **Rating:** CE

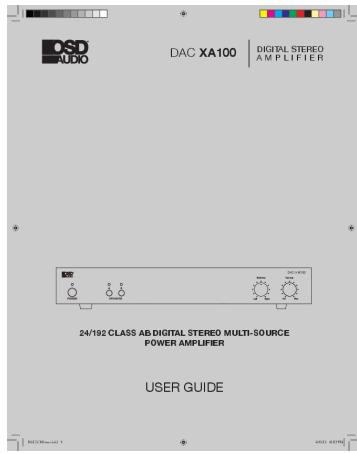
10. WARRANTY

The OSD DAC-XA100 Power Amplifier comes with 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 modifications, or improper installation. Please retain your proof of purchase for warranty claims.

11. SUPPORT

If you require further assistance or have questions not covered in this manual, please contact OSD Audio customer support. For the most up-to-date contact information, please visit the official OSD Audio website or refer to your purchase documentation.

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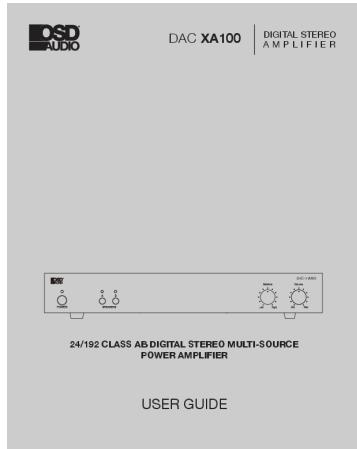
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USER GUIDE DACXA100 manual osdaudio mm5 graphics s |||

DAC XA100 DIGITAL STEREO AMPLIFIER DAC-X A100 24/192 CLASS AB
DIGITAL STEREO MULTI-SOURCE POWER A ... 400W 3.3A MAX 120 VAC-60Hz 6
FRONT PANEL 11 13 DAC-X A100 14 12 1. Main Input/Output: The **DAC-X-A100**

Main Input consists of stereo RCA jacks and are used as the amplifier's primary audio input...

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DAC XA100 DIGITAL STEREO AMPLIFIER DAC-X A100 24/192 CLASS AB
DIGITAL STEREO MULTI-SOURCE POWER ... 24/192 HD AUDIO 39 REAR PANEL 4
10 DAC-XA100 400W 3.3A MAX 120 VAC-60Hz 6 0DLQ, QSXW2XWSXW The **DAC-X-A100** Main Input consists of RIVWHUHR5

MDFNVDQGDUHXVHGDVWKHDPSOLHUVSULPDU audio inputs. The Main...

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