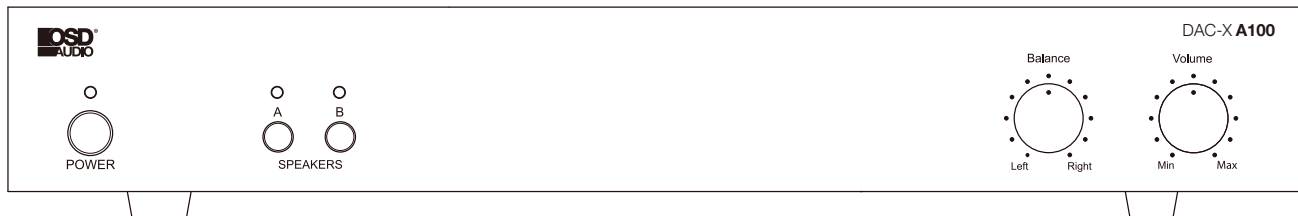




DAC **XA100**



DIGITAL STEREO
A M P L I F I E R



24/192 CLASS AB DIGITAL STEREO MULTI-SOURCE POWER AMPLIFIER

USER GUIDE

Important Safety Instructions

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- The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of dangerous voltage inside the product that may constitute a risk of electric shock.
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- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

1. **Read Instructions** — Read all the safety and operating instructions before operating this product.
2. **Retain Instructions** — Retain safety and operating instructions for future reference.
3. **Heed Warnings** — Adhere to all warnings on the product and in the operating instructions.
4. **Follow Instructions** — Follow all operating and use instructions.
5. **Cleaning** — Unplug this product from the wall outlet before cleaning. Use a damp cloth for cleaning. Clean the outside of the product only.
6. **Attachments** — Do not use attachments that are not recommended by the product manufacturer; they may be hazardous.
7. **Water and Moisture** — Do not use this product near water.
8. **Accessories** — Do not place this product on an unstable cart or stand. The product may fall, causing bodily injury and damage to the product. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart to overturn.
9. **Ventilation** — Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.
10. **Power Sources** — Operate this product only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. This product is equipped with a three-prong grounding plug. This plug will only fit into a grounding power outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
11. **Power Cord Protection** — Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.
12. **Lightning** — Unplug the unit from the wall outlet for added protection during a lightning storm and when it is left unattended and unused for long periods of time. This will prevent damage to the product due to lightning and power line surges.
13. **Overloading** — Do not overload wall outlets or extension cords. This can result in a fire or electric shock.
14. **Inserting Objects into Unit** — Never push objects of any kind into this product through any openings; they may touch dangerous voltage points or short out parts that could result in fire or electric shock.

15. **Servicing** — Do not attempt to repair or service this product yourself. Opening or removing covers may expose you to dangerous voltage and other hazards. Refer all servicing to qualified service personnel.
16. **Damage Requiring Service** — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: **a)** If the power-supply cord or plug is damaged. **b)** If liquid has been spilled into the product. **c)** If the product has been exposed to rain or water. **d)** If the product does not operate normally by following the operating instructions. **e)** If the product has been dropped or damaged in any way. **f)** If the product exhibits a distinct change in performance.
17. **Replacement Parts** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer. Unauthorized substitutions may result in fire, electric shock, and other hazards.
18. **Safety Check** — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
19. **Wall or Ceiling Mounting** — Mount the product to a wall or ceiling only as recommended.
20. **Heat** — The product should be situated away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

INTRO / FEATURES

OSD DAC Series: DAC-XA100 amplifier makes a great choice for powering speakers in a stereo or multi-room sound system. This versatile amp’s 24/192 USD Audio and dual line-level inputs let you enjoy sound from one main music source plus and additional “local” audio sources, switching automatically between them.

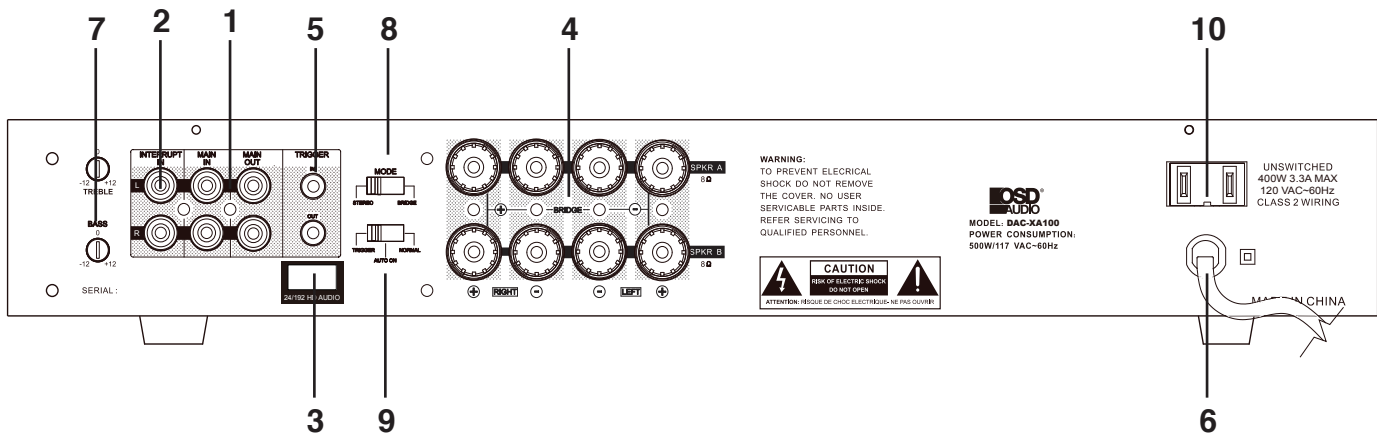
You can connect your TV as the primary source feeding the main input. Turn on the TV and the XA100 turns itself on and sends the music to your speakers. Then, if you connect another music source like a Bluetooth player, Digital Audio device or portable music player to the secondary local “Interrupt” or USB input, the amp will switch to that source whenever it senses an incoming music signal. When the other source stops playing, the XA100 will automatically switch back to the TV. There’s no need to manually switch inputs.

The 24/192 Digital Stereo Power Amplifier OSD Audio DAC-XA100 is designed for dedicated stereo & distributed audio applications. It offers many features including A & B speaker outputs. USB Type A 24/194 HD Audio input as well as RCA Line In, and Interrupt Line In inputs. It can also be configured for Stereo or Bridged output.

50 watts per channel into 8 ohms (10-30,000 Hz) at 1% THD with 2 channels driven

150 watts when bridged into a single 8-ohm load

60 watts into 4 ohms



- 1. Main Input/Output:** The DAC-X-A100 Main Input consists of stereo RCA jacks and are used as the amplifier's primary audio inputs. The Main Output also consists of stereo RCA jacks and passthrough the DAC-X-A100's Main Input audio signal to another amplifier.
- 2. Interrupting Line Input:** The Interrupting Inputs consists of stereo RCA Jacks, plus the USB Digital Audio input. This input can be used if a second source is desired and takes over when signal is present and has at least a 5mV level. When there is no signal, or a signal with less than 5mV level, the amp switches back to Main input after a brief delay.
- 3.** The amplifier features an USB Digital input that will accept 2ch PCM audio signals from a PC or other digital device and can process up to 24 Bit-Depth/192 KHz sampling frequency.
- 4. Speaker A/B Terminals:** The DAC-XA100 is fitted with binding-post terminals for A & B speaker connection for powering up to two pairs of speakers. The minimum impedance for each speaker is 4-ohm in Stereo mode and 8-ohm in Bridged mode. The binding post terminals will accept bare wire (up to 10AWG), pin-connectors, and banana plugs (single only).
- 5. Trigger In/Out:** The 12V trigger input and output allow the DAC-XA100 to be powered on by other electronics or to power on other electronics via a 3.5mm minijack cable. The trigger input can operate with voltages between 3 and 20VDC.

- 6. Power Cord:** The digital stereo power amplifier features a non-detachable 6' AC power cord terminated by a 2-prong connector.
- 7. Bass & Treble:** Bass (100Hz) & Treble (10kHz) can be adjusted from -12dB to + 12dB.
- 8. Mode Select (Stereo or Bridged):** Select Stereo mode for connecting one or two pair of loudspeakers, when set to Bridged mode, the XA100 becomes a single channel mono amplifier for powering one speaker. Only the Right audio input is used during bridged mode. Only one zone (A or B) can be bridged; not both.
- 9. Power Mode:** Set the Auto On switch to Normal for manual power on/off. Set the Auto switch to Auto for signal sensing; the amp will turn on when audio signal (>5mV) is detected at the inputs. The front-panel power switch must be in the ON position (pushed in) for the Auto On feature to operate. Or select 12V Trigger which allows the XA100 to be powered on by other electronic component or to power on other electronics via a 3.5 minijack cable (between 3-20VDC).
- 10.** Unswitched Power outlet for attaching other devices that require less than 400W

- 11. Power Switch:** The front-panel Power Switch turns the XA100 on or off. A red LED indicates connection to AC power while in standby mode and turns green indicating audio signal is present.
- 12. Volume Control:** This adjusts amplifier volume.

- 13. A/B Speaker Selector:** You can select Speakers A, Speakers B, or Both for playback.
- 14. Balance:** The Balance control lets you fade the amplifier's speaker output between the Right & Left channels.



Set Rear Controls First

1. Mode – Either Stereo or Bridge
2. Do you want to power the amp via the front panel on/off switch or use a 12-volt trigger or have the amp turn on when a signal is present? Select your choice on the rear panel. **Note:** If you choose Trigger or Auto, the front panel on/off switch must be ON.
- Note:** Only the digital input or the RCA Line-Level input should be used at one time. Example: If you use a digital input and the RCA, they will both be heard.
3. Now connect Speakers and Sources.
4. Then connect the power cord.
5. Make sure the volume control on the front panel is turned down before turning the amp on.
6. Turn the amp on using the front panel on/off switch. If you are using a trigger, make sure it is on, if you are using auto, make sure there is a signal playing.
7. Adjust the volume to the desired level.
8. Finally, adjust the tone controls on the rear panel to suit the acoustics of the room or your personal preference.

Spec

Number of Channels:	2
Type:	Class AB
Power Output per Channel (8 ohms)	50W
Power Output per Channel (4 ohms)	60W
Bridged (8 Ohms)	150 (MAX)
DAC:	DAC CT7601+ES9018KM2, Supports 24Bit/192Khz
Capacitors:	2 x 6800uf
Frequency Bandwidth:	10-20k
THD:	0.2%
Minimum Impedance:	4Ohm
Speaker Outputs:	4
THX Certification:	No
Dimensions:	(L x D x H) 16.5” x 9.5” x 2.9”
Weight:	9.6 pounds
Inputs & Outputs	
Number of Inputs:	3
Input Type:	RCA(x2)/USB
Power Cord:	Fixed IEC 2-prong
Level Controls:	Yes
Speaker Connectors:	Posts

OSD Audio electronics have (2) year Limited Warranty against defects in materials and workmanship. Proof of purchase must accompany all claims. During the warranty period OSD Audio will replace any defective part and correct any defect in workmanship without charge for either parts or labor.

OSD Audio may replace returned electronics with a product of equal value and performance. In such cases, some modifications to the mounting may be necessary and are not OSD Audio’s responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by OSD Audio. The unit must be returned to OSD Audio at the owner’s expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damaged resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by OSD Audio.

OSD Audio sells products only through authorized dealers and distributors to ensure that customers obtain proper support and service. Any OSD Audio product purchased from an unauthorized dealer or other source, including retailers, mail order dealers and online sellers will not be honored or serviced under existing OSD Audio warranty policy. Any sale of product by an unauthorized source or other manner not authorized by OSD Audio shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, you must email customer service at RMA@audiogeargroup.com for a Returned Merchandise Authorization (RMA) number then the unit must be shipped to OSD Audio at the owner’s expense, along with a note explaining the nature of service required. Be sure to pack the product(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover: Damage caused by abuse, accident, misuse, negligence, or improper operation (installation) • Any products that have been altered or modified • Any product whose identifying number of decal, serial #, etc. has been altered, defaced or removed • Normal wear and maintenance.



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DACXA100 Man: 9/22

