XMP100

Digital Stereo Power Amplifier

FEATURES

- Provides 150Watts Output Power (RMS @ 8 ΩBridged).
- Class D circuit designed.
- 94% Efficient versus 50% for comparable AB design
- RCA Line Main IN and RCA Interrupting IN.
- RCA Line Main Out to another amplifier.
- Base and Treble Adjustable
- Volume and Balance Adjustable
- Power Output A and B Select
- 12V Trigger: In (+/-) Control by a DC Remote Trigger
- 12V Trigger Out (+/-) Remote Turn on/off signal for another device
- Normal/Auto.
- Standby mode (Only switch at "Auto" position).
- Selectable Voltage.
- Designed in 1U rack.
- Stereo/Bridged Mode Select
- AC 115V IN

Congratulations on your purchase of the OSD Audio ® XMP100. Please take a few moments to read this entire manual, and be sure to retain this document for future reference. Please read and observe all safety instructions detailed on page 2.

NOTE: If any part of this product is damaged or missing, please call your dealer or OSD Audio directly at 1.888.779.4968

Please read your warranty and retain your receipt and original carton for possible future use.

For more information about OSD Audio electronics, speakers and accessories please visit www.osdaudio.com

SPECIFICATIONS

Power Output: 50WX2 (RMS @ 8Ω)
Power Output: 75WX2 (RMS @ 4Ω)
Power Output: 150W (RMS @ 8Ω Bridged)
Total Harmonic Distortion (THD): <1%(Rated power: 50W @ 8Ω)
Signal to Noise: >90 dB A WTD
Frequency Response :20HZ~22KHZ +0/-2dB@ 8Ω
Adjustable Volume: Min – Max
Adjustable Bass and Treble: -12~+12dB.
Line Level Input Sensitivity: 700Mv
Thermal Protection: Yes
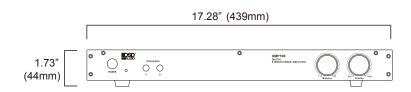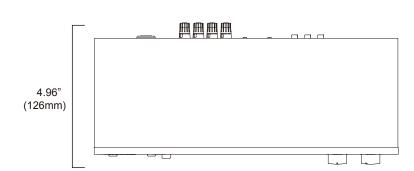Short Protection: Yes
Dimension: 17.28 x 1.73 x 4.96 (WxHxD)
Weight: 3.3 lbs

17.28" (439mm)

1.73" (44mm)

4.96" (126mm)

CAUTION

RISK OF ELECTRICAL SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL!

EXPLANATION OF SAFETY SYMBOLS

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products' enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

IMPORTANT SAFETY INSTRUCTIONS

• WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL NOT BE PLACED ON APPARATUS.
• WARNING: TO PREVENT FIRE OF SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
• WARNING: THE MAINS PLUG IS USED AS DISCONNECT DEVICE. THE DISCONNECT DEVICE SHALL REMAIN READILY AVAILABLE.
• WARNING: ONLY USE ATTACHMENTS OR ACCESSORIES SPECIFIED OR PROVIDED BY THE MANUFACTURER.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc. Install in accordance with the manufacturer's instructions.
8. Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. No open flame sources, such as lighted candles, should be placed on the apparatus.
9. 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 third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point of exit from the apparatus.
11. Only use attacheements/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

S3125A

13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified 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 has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
16. WARNING: The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
17. This equipment is a Class II or double insulated electrical appliance. It is designed in such a way that it does not require a safety connection to electrical earth.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION:RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR

18.
  - This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
  - Warning: to reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
  - 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 appliance.

MAGNETIC FIELD: !!CAUTION!! Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field, which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit. If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

OSD AUDIO

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Figure 1. Front Panel

FRONT PANEL CONTROLS

1. **Power Switch**
   Switches the XMP100 on or off. A red LED indicates connection to AC power while in standby mode. Turns green indicating audio signal is present.

2. **Speaker Selector**
   Selects speaker zone A or B. For A + B zones push both buttons in.

3. **Balance**
   Fades speaker output between the Right and Left Channels
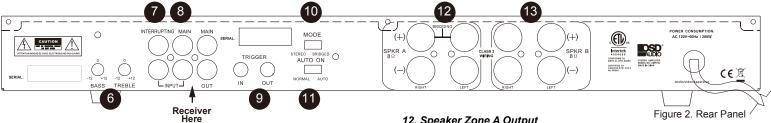
4. **Volume**
   Adjusts amplifier volume.

Figure 2. Rear Panel

REAR PANEL CONTROLS

6. Bass and Treble Controls
These controls can adjust bass and treble frequencies +/- 12dB at 100Hz and 10kHz.

7. Interupting Line Input
This is the secondary input, use MAIN IN for your main input.
INTERRUPTING 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 IN after a brief delay.

8. Main Input/Output
MAIN IN should be used as the "primary" or main input for the a mplifier. Connect your receiver or main source to this input. Main out only plays whatever is connected to Main In. It will not play the signal from the Interrupting Input. Use Main out to connect to another Amplifier or to Powered Sub-woofer.

9. 12V Trigger In/Out
Allows the XMP100 to be powered on by other electronics or to power on other electronics via a 3.5mm mini phone plug cable.

10. Mode Select Switch
Stereo Mode (4-8 ohms) to Bridge Mode (Speaker A only, 8-ohm minimum)
BRIDGED MODE
When set to "Bridged" mode, the amplifier is a single channel mono amplifier
BRIDGED MODE- MONO APPLICATION
For bridged mode, playing Right and Left together as mono output, plug RCA cables in to Right and Left RCA at MAIN input. Set the MODE switch to BRIDGED and follow the instructions for bridged speaker connection in the SPEAKER TERMINALS section of this manual.
NOTE: *The XMP100 supplies 160W in bridged mode, Please verify that your* speakers are capable of handling such power to avoid possible damage.

11. AUTO ON Select Switch
Power can be turned on and off manually via the switch on the front panel or automatically by signal sensing. Set it to NORMAL for manual power on/off. Set to AUTO for signal sensing; the amp will turn on when audio signal is detected at the inputs. NOTE: The front panel power switch must be in the ON position (pushed in) for the AUTO ON feature to operate.

12. Speaker Zone A Output
Speaker output terminals for zone A. Minimum impedance: 8 ohm bridged or 4 ohm stereo.

13. Speaker Zone B Output
Speaker Output Terminal for zone B. Minimum Impedance; 4-ohm Stereo
SPEAKER TERMINALS - STEREO MODE
For stereo output connect the speaker's positive (red) terminal to the amplifier's positive (red) terminal, and the speaker's negative (black) terminal to the amplifier's negative (black) terminal for each Right and Left speaker.
SPEAKER TERMINALS - BRIDGED MODE
Place the "MODE" switch in the "BRIDGED" position and use both red terminals to connect to the speaker. Connect the speaker's positive (red) terminal to the amplifier's red (+) terminal noted next to the bridging mark, and the speaker's negative (black) terminal to the amplifier's unmarked positive (red) terminal.
NOTE: Only Speaker A can be used for bridged Mono as labeled on the back panel. Do not attempt to Bridge both Speaker A and Speaker B! This may result in damage to the amplifier. The minimum Impedance for a single bridged connection is 8 ohm.
NOTE: Use Class 2 wiring for residential in-wall or Class 3 for residential and most commercial installations for speaker connections.
To wire the output connector: 1. Strip the insulation off each speaker wire to expose 3/8" (10 mm) of bare conductor. 2. Unscrew the output terminal binding post several twists, insert each wire into the correct terminal. 3. Tighten binding post by twisting clock-wise until it is firmly clamping the speaker wire. Warning: While the amplifier does self-protect under most improper output conditions, misconfiguration of loudspeaker mode and incorrect connection of loudspeakers could damage connected loudspeakers and/or amplifier. Please refer installation to a qualified installation professional, and always check state and local electrical codes when installing.
NOTE: To prevent sonic degradation in your speaker installation, total speaker wire resistance should be kept below 0.5 ohms. This table lists recommended speaker wire gauge versus wire run length.
- 0-80 ft - 16 Gauge 2/4 conductor CL3 Rated
- 81ft to 200 ft - 14 Gauge 2/4 Conductor CL3 Rated
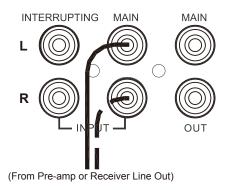- 200 Plus Ft -12 gauge 2 Conductor CL3 Rated

14. Power Cord
This amplifier is configured for operation at 115V (North America). A fuse located internally protection from fault conditions. Refer to qualified service personel should this need to be replaced.
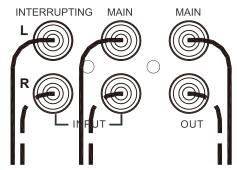
APPLICATIONS

STEREO SETUP

In this configuration, the mode switch is set to "Stereo". Connect the line out jacks from a stereo pre-amplifier or source to the MAIN input jacks of your XMP100. Next connect your speakers to the terminals marked "Speaker A" observing proper polarity. Select the "A" speakers using the front panel zone selection buttons. Connect a second (optional) pair of speakers to the terminals marked "Speaker B". If you are connecting 4 speakers to the XMP100 they must be 8 ohm speakers only. Press A and B together to use both zones.

(From Pre-amp or Receiver Line Out)

SETUP FOR MULTIPLE SOURCE

In the multiple source set up, a distributed audio system is connected to the XMP100 as a local zone amplifier via the MAIN inputs. Normally the distributed audio system will be the audio source for the XMP100 The distributed audio is then passed on to be used by additional zones or sub zones in the distributed system via the MAIN outputs.

(From Local Source Line Out) (From Pre-amp Line Out) (Out to Additional Zones)

The audio output of a local source, such as an MP3 Player, CD, television, computer, etc., is connected to the XMP100 via the INTERRUPTING inputs, and whenever the local source is active its signal will take priority over the distributed audio signal present at MAIN input . However, the distributed audio signal will still be present at the MAIN input. In this circumstance the audio output of the local source will be heard via the XMP100. Once the local source is turned off or muted, the XMP100 will automatically switch back to the distributed audio system as an audio source, assuming the local source remains inactive. There is a delay of up to 6 seconds when switching from INTERRUPTING input back to MAIN inputs.

Limited Warranty

OSD Audio® warrants its amplifier products against defects in materials and workmanship for a limited period of time. For a period of two years from date of original purchase, we will repair or replace the product, at our option, without charge for parts and labor. Customer must pay all parts and labor charges after the limited warranty period expires. The limited warranty period for factory refurbished products expires after ninety (90) days from date of original purchase.

This limited warranty applies only to purchases from authorized OSD Audio electronics retailers. This limited warranty is extended only to the original purchaser and is valid only to consumers in the United States.

Consumers are required to provide a copy of the original sales invoice from an authorized OSD Audio dealer when making a claim against this limited warranty. This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than OSD Audio or damage that is attributable to Acts of God. It does not cover costs of transportation to OSD Audio or damage in transit. The customer should return his defective product, freight prepaid and insured, to OSD Audio only after receiving a Return Authorization.

This warranty will become void if the serial number identification has been wholly or partially removed, altered or erased. Repair or replacement under the terms of this warranty does not extend the terms of this warranty. Should a product prove to be defective in workmanship or material, the consumer's sole remedies will be repair or replacement as provided under the terms of this warranty. Under no circumstances shall OSD Audio be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.