

# DPA-1.2

## Instruction Manual

### 2 Channel Amplifier with Auto A/B Selector



## 1. SAFETY INSTRUCTIONS



**“WARNING”** “ TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.”


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



The lightning flash with 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.



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

 Double Insulated, when servicing use only identical replacement parts

Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance in the operating instructions should be adhered to.
4. Follow Instructions - All operating and user instructions should be followed.
5. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings or, placed in a built - in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings. Place the DPA-1.2 in a well-ventilated location, leaving at least 2 inches (5cm) of clearance on all sides, top and rear of unit for air flow. If ventilation is blocked, the DPA-1.2 may overheat and malfunction.
9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances ( including amplifiers ) that produce heat.
10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
12. 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, paying particular attention to cords at plugs, receptacles, and the point where they exit from the appliance.
13. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.



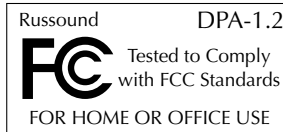
- 14. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- 15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
- 16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
  - A. The power - supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally; or
  - E. The appliance has been dropped or the enclosure is damaged.
- 17. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 18. Avoid using a telephone (other than cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 19. Do not use the telephone to report a gas leak near the leak.

**Precautions**

- 1. Do Not Touch The DPA-1.2 With Wet Hands. Do not handle the DPA-1.2 or power cord when your hands are wet or damp. If water or any other liquid enters the DPA-1.2 cabinet, take the DPA-1.2 to qualified service personal for inspection.
- 2. Location of the DPA-1.2 - Do not expose the DPA-1.2 to direct sun light or heating units as the DPA-1.2 internal components temperature may rise and shorten the life of the components. Avoid damp and dusty places.
- 3. Care – From time to time you should wipe off the front and side panels and the cabinet with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.



Conforms to  
UL 6500  
Certified to CSA  
C22.2 Nol-94



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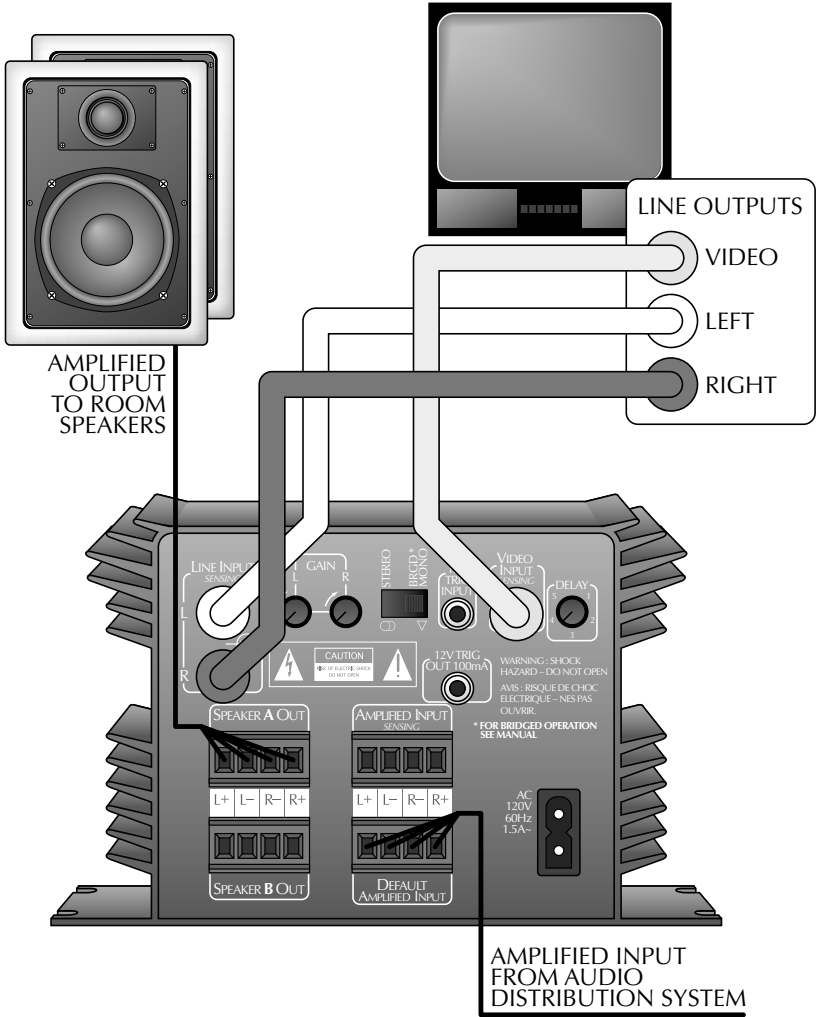
## **2. INTRODUCTION**

Congratulations on your recent purchase of the Russound DPA-1.2 two-channel amplifier. The DPA-1.2 is a high-current, high-quality amplifier, which includes automatic A/B switching. The DPA-1.2 two-channel amplifier will amplify a source at the sensing line input or the sensing speaker level input. Switching between a default audio source and a local source, the DPA-1.2 is ideally suited for those applications that require automatic switching and amplification. The DPA-1.2 power output per channel is 35 watts per channel into 8-Ohms, and 45 watts into 6-Ohms. Bridged output provides 70 watts of power into 8-Ohms. Each amplifier output channel incorporates thermal, and short circuit protection and Russound's unique Dynamic Clipping Sensor that allows for better headroom and volume without clipping or distortion.

The Russound DPA-1.2 amplifier is built with pride. Fidelity, Reliability and Quality are the primary objective. Russound products are guaranteed to provide years of enjoyment.

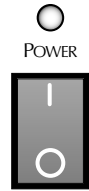
## **3. POSSIBLE SYSTEM CONFIGURATIONS**

The DPA-1.2 can be used as a single-source two-channel zone amplifier, or as a local-source amplifier that automatically switches between a default source (such as a whole-house audio distribution system) and a local source (such as a television set).



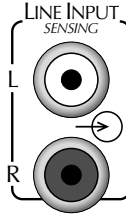
## 4. FRONT PANEL

**Power Switch:** Turns on the main power for the amplifier. When the power is on, the LED will be illuminated.

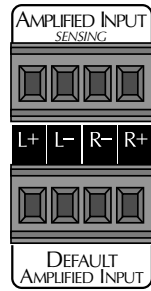


## 5. BACK PANEL CONNECTIONS

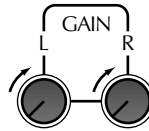
**Line Input:** This line input is a sensing input that will activate the DPA-1.2 when an audio signal is present. When there is no audio, the amplifier will go into standby or default back to the whole-house amplified signal if playing.



**Speaker Level Input:** The speaker level input is a sensing input that will automatically switch the DPA-1.2 from the default input to the speaker level input. This input would be used in place of the line audio input. An amplified signal from a smaller amplifier or television can be amplified by the DPA-1.2 for a cleaner, more dynamic sound.



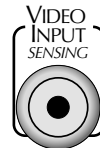
**Gain Controls:** Left and Right gain controls independently adjust the sound level for each channel. When in the bridge mode, only the **right control** is used.



**Stereo / Mono Switch:** The Stereo / Mono switch selects stereo or mono for the speaker outputs. In the Mono position, each Left and Right output is Mono. The Mono portion is also used for bridged operation.

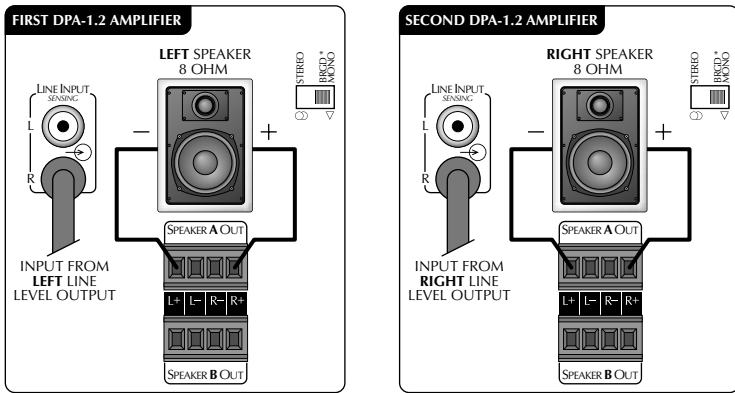


**Video Input:** The Video Input is a sensing input that will activate the DPA-1.2 when a video signal is present. When there is no video, the amplifier will go into standby or default back to the whole-house amplified signal if playing.

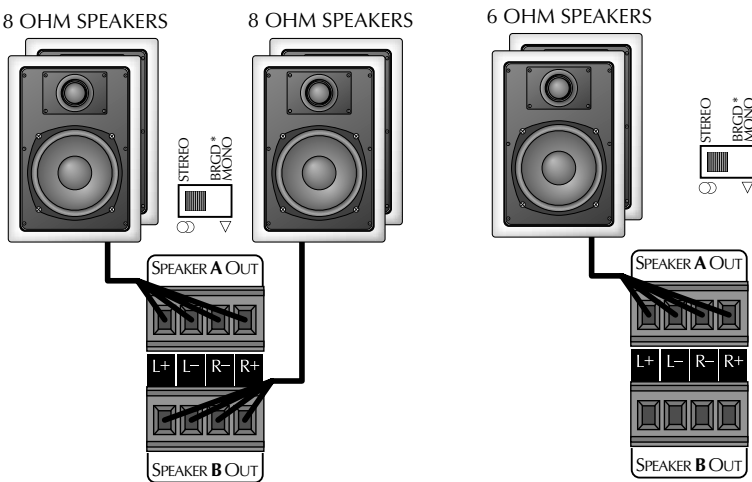


**Speaker Outputs:** The A and B speaker outputs are in parallel to the amplifier output. When connected to the A or B output, either 6-ohm or 8-Ohm speakers could be used. When using both A and B speaker outputs, only speakers with impedance higher than 8 Ohms can be connected. For Bridge amplifier operation, connect the + of the speaker to the R+ and - of the speaker to the L+ of the amplifier.

### Mono Bridged Operation



### Stereo Operation



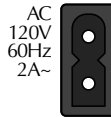
**12-Volt Trigger In and Out:** The Trigger output is 12 volts at a maximum of 100mA. This can be used to drive a relay- operated AC outlet or other 12-volt triggered devices. The 12-volt trigger input is used to activate the DPA-1.2 independently from the auto turn on sensing circuit, in which case the delay, video and audio sensing are bypassed.



**Delay Time:** The delay time can be adjusted from about 0.3 minutes to 8 minutes. The DPA-1.2 amplifier will automatically switch to the default input signal after the delay setting. (When set between 4 and 5, defeats delay setting). When the audio or video source is no longer playing, the DPA-1.2 will switch back to the default input after the set delay time.



**Power:** The DPA-1.2 is set at the factory for operation of either 120 VAC 60Hz or 230 VAC 50Hz. Please reference the voltage rating on the back panel.



Includes detachable 2 terminal power cord.



## 6. SPECIFICATIONS

Audio power output: Continuous 35W @ 8 Ohms,  
45W @ 6 Ohms.

Frequency response: 20HZ to 20KHZ -0.3dB.

Total harmonic distortion: 0.05% 8 Ohm .075% 6 Ohm

Input sensitivity: 400mV line

Input impedance: 22k Line Input

Signal to noise ratio: 85dB

Input trigger: 12VDC 10k

Output trigger: 12VDC 100mA

Auto off delay time: 2 to 10 minutes

Primary fuse: T2.0A /250V

Power requirements: Factory set for 120 VAC 60Hz or  
230 VAC 50Hz.

2 terminal detachable power cord

For 230VAC operation, use a power  
cord (not supplied) rated for 240VAC  
2A or higher.

Weight: 9 lbs.

Dimensions: 6"W x 10"D x 3.5"H

## **7. WARRANTY**

The Russound DPA-1.2 is fully guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owners expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owners expense. To return for repairs, the unit must be shipped to Russound at the owners expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

## NOTES

# **Russound** A/V DISTRIBUTION & CONTROL SYSTEMS

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