

RA-225
In-wall Audio
Amplification System



RESONATE[®]

RA-225

Installation & User's Guide

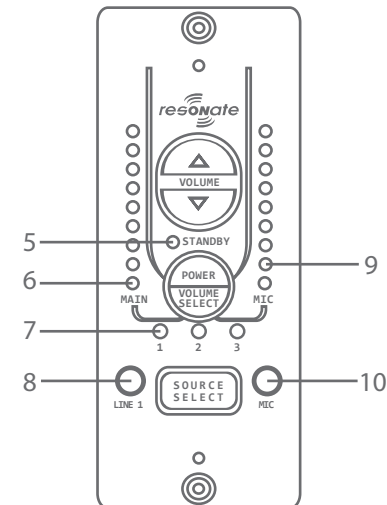
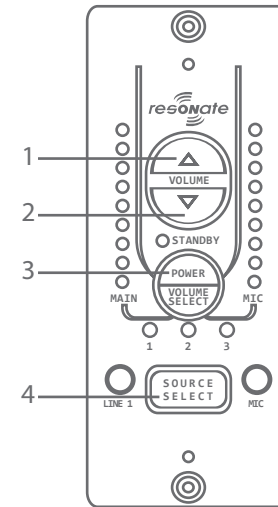
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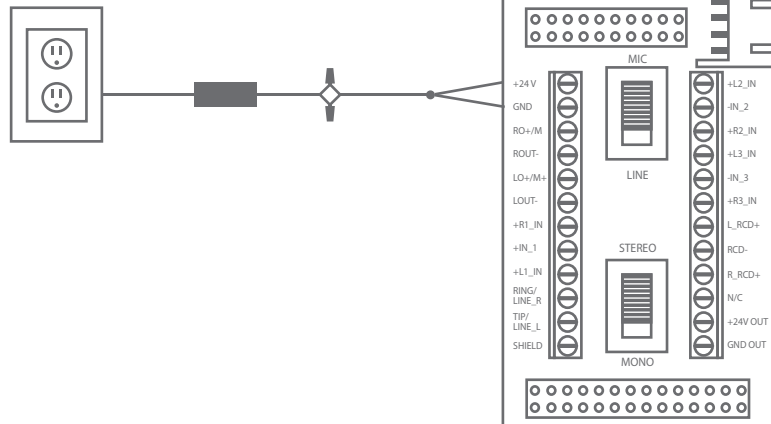
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RA-225 User Guide

- 1. Volume Up:**
Press up arrow to increase volume.
- 2. Volume Down / Mute:**
Press down arrow to lower volume,
Press and hold the down arrow to mute volume;
Press up or down arrow to unmute.
- 3. Power / Volume Select:**
Press to turn unit on, press and hold to turn unit off;
when unit is on, press once to choose
between Main and Mic volume selections.
- 4. Source Select:**
Press to cycle between source selections.
- 5. Standby Display:**
Red LED will illuminate to indicate that the
unit is in standby mode.
- 6. Main / Mic Display:**
Red LED will illuminate to indicate which
volume selection has been chosen.
- 7. Source Selection Display:**
Red LED will illuminate to indicate which
of the three sources has been selected.
- 8. Line Input:**
3.5 mm input for connecting line level
sources, such as digital music players.
- 9. Main / Mic Volume Display:**
Green LEDs will illuminate to indicate level
of volume for the chosen selection. Lower
Main LED will blink to indicate when the
volume has been muted.
- 10. Mic Input:**
3.5 mm input for adding a wireless mic system.
This input is mixed into the system and its volume
level is controlled separately. It can be changed to
a line level input by changing the position of the
Mic/Line switch on the back of the connector panel.



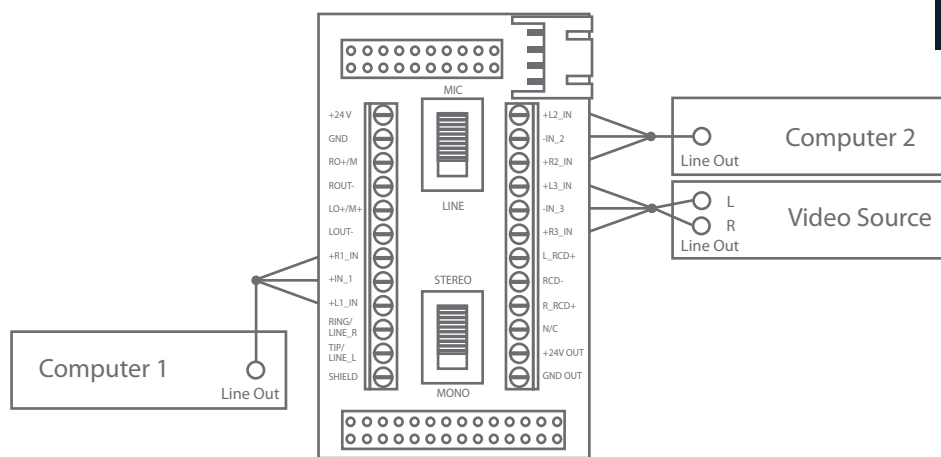
ELECTRICAL OUTLET
(installed by others)



Connecting Power

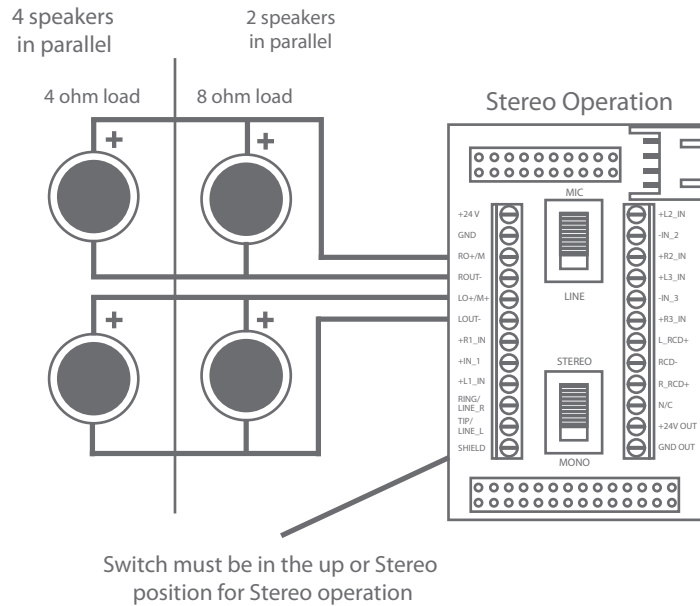
The RA-120 comes standard with a 24 Volt DC power supply. The power supply can be attached directly to the back of the RA-120 or extended with standard CL2 18 AWG 2 Conductor wire using standard wire nuts.

(Local codes may require the power supply to be installed below ceiling tile grid and connecting cable to be plenum rated)



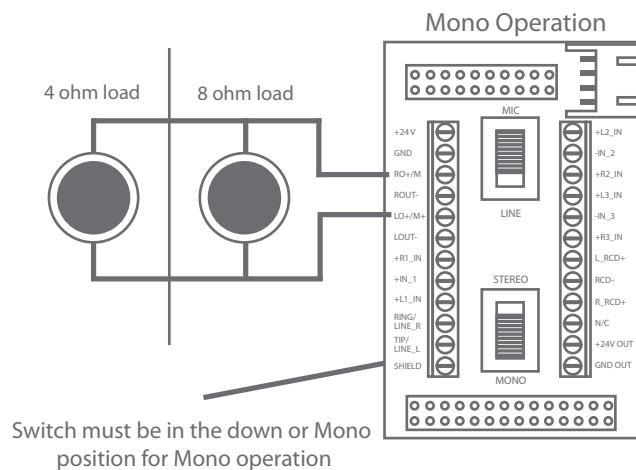
Connecting Audio Components

There are three line level audio inputs on the back of the RA-120. Connect corresponding signal and ground wires to the appropriate terminals as printed on back connector panel. It is recommended to use standard 22AWG multi-conductor shielded cable to connect your audio components.



Connecting Speakers in Stereo

To operate the RA-120 in stereo mode, wire as shown in diagram. Move the stereo/mono switch into the up position to engage stereo mode. Typical output would be 25 watts per channel with a 4 ohm load to the amplifier. Follow standard guidelines for AWG when choosing which speaker wire to use. The Connector will accept up to 12-18 AWG wire.

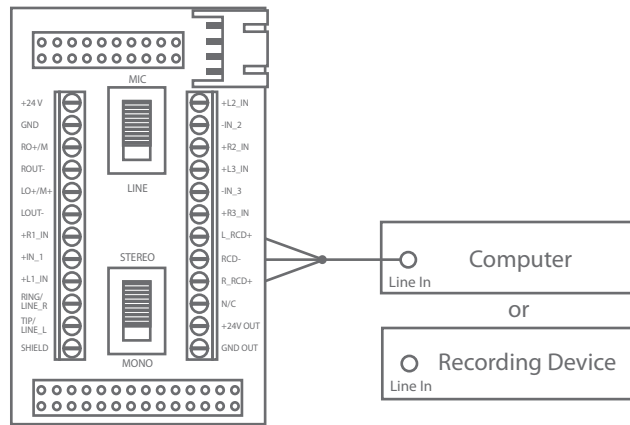


Connecting Speakers in Mono

To operate the RA-120 in mono mode, wire as shown in diagram. Move the stereo/mono switch into the down position to engage mono mode. Typical output would be 50 watts with a 4 ohm load to the amplifier. Follow standard guidelines for AWG when choosing which speaker wire to use. The connector panel will accept up to 12-18 AWG wire.

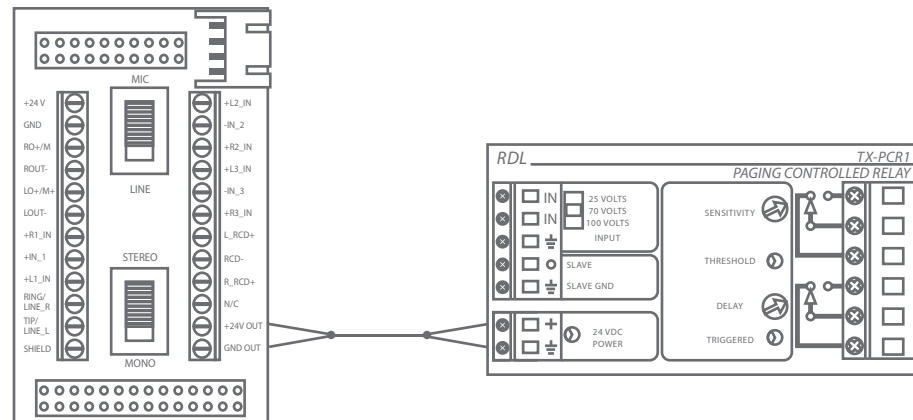
Connecting to Record Output

There is a record output designed for connecting to the input on a device capable of recording audio. This device may be a stand alone unit or a computer input. The level on the output is fixed so there may need to be some adjustment on the on the recording device to maximize the recording quality. It is recommended to us standard 22 AWG multi-conductor shielded cable to connect your recording device.

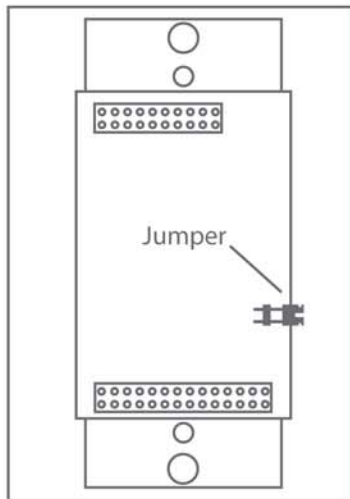


Connecting to 24 Volt Output

The RA-120 was designed with a built in 24 Volt output to eliminate the need to have multiple power supplies for more than one device that requires power. Other than future devices from Resonate, a typical device that requires power is a page override unit. This device will override the RA-120 speaker output when it detects a signal from a paging system.



Audible Touch Response



Remove Jumper
for audible response
when pressing buttons.

To engage the audible touch response, remove the jumper that is located between the back connector panel and the amplifier PCB. Refer to the drawing for location of the jumper. It may make sense to only have the jumper connected to one of the pins in case you want to disengage the audible response at some point in the future.