IMPORTANT: Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

MPA 152 Plus • Setup Guide

The Extron MPA 152 Plus is an ENERGY STAR® qualified mini power amplifier. It delivers up to 15 watts (rms) per channel stereo or dual mono into a 4 ohm sound system, or 8 watts (rms) per channel into an 8 ohm system.
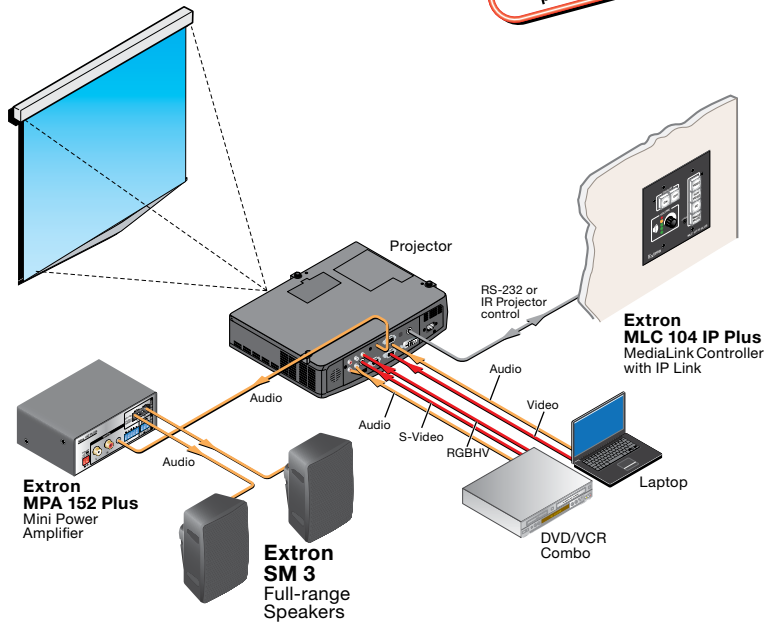
For complete instructions, see the MPA 152 Plus User Guide, which is available at **www.extron.com**.

Installation

To install and set up an MPA 152 Plus, follow these steps:

1. Turn off all equipment and disconnect from power sources.

2. Mount the Extron MPA 152 Plus on a rack, under a desk, or on a projector pole.
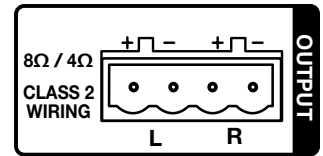
    ATTENTION: Although the amplifier is plenum rated, the power supply provided with it is not. The power supply must not be placed in the plenum space. Cables to and from the amplifier must be plenum rated.
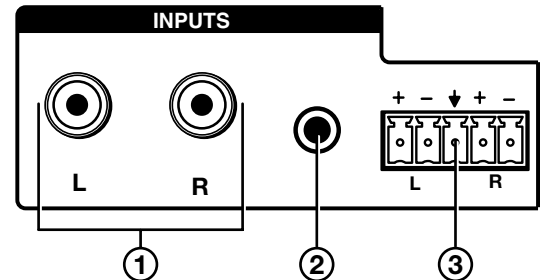

Projector

RS-232 or IR Projector control

Extron MLC 104 IP Plus MediaLink Controller with IP Link

Audio

Video

Audio

Audio

S-Video

RGBHV

Laptop

Audio

Extron MPA 152 Plus Mini Power Amplifier

DVD/VCR Combo

Extron SM 3 Full-range Speakers

NOTE: Use only the two round mounting holes for mounting the MPA 152 Plus. The other four (hexagonal) holes anchor stand-offs for the internal circuit boards. Using them may damage the amplifier and does not provide secure mounting for the unit.

3. Attach the speakers to the MPA 152 Plus output, using the 4-pole, 5 mm captive screw receptacle (see the figure at right).
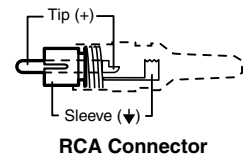
    ATTENTION: Do not ground or short the speaker outputs as this will damage the amplifier.

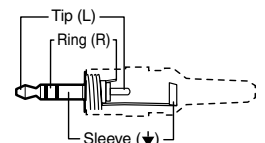8Ω / 4Ω
CLASS 2 WIRING
L   R
OUTPUT

4. Attach inputs to the MPA 152 Plus unit from the audio source, the projector, or both. There are three audio inputs (shown in the figure at right), which can be used individually or together.
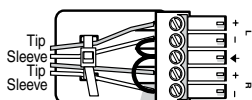

INPUTS

L   R

L   R

① ② ③

① **One pair of RCA receptacles** — these receptacles accept unbalanced, line level audio signals. The input can be stereo, using two RCA connectors, or mono, using a single RCA connector plugged into the left receptacle. If unused, the receptacles automatically terminate to lower the noise floor.
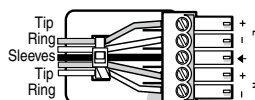

Tip (+)

Sleeve (⏚)

RCA Connector

② **One 3.5 mm stereo tip-ring-sleeve receptacle** — this input also accepts unbalanced, line level audio signals through a 3.5 mm tip ring sleeve (TRS) stereo connector. If unused, the receptacle automatically terminates to lower the noise floor.
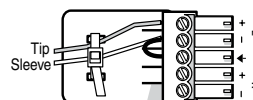

Tip (L)
Ring (R)

Sleeve (⏚)

3.5 mm TRS Connector

③ **One 3.5 mm, 5-pole captive screw receptacle** — this 5-pole 3.5 mm captive screw receptacle accepts line level, balanced or unbalanced, mono or stereo audio signals.
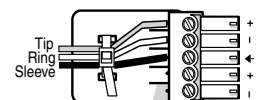

Tip
Sleeve
Tip
Sleeve

Unbalanced Stereo Input

Tip
Ring
Sleeves
Tip
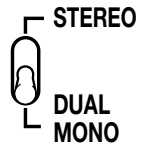Ring

Balanced Stereo Input

Tip
Sleeve

Unbalanced Mono Input

Tip
Ring
Sleeve

Balanced Mono Input

The MPA 152 Plus sums and weights the left unbalanced signals from the TRS and RCA receptacles. This summed, unbalanced signal is then summed with the left balanced signal from the captive screw receptacle. The right channel is handled in the same way.

The left and right channels are then sent to the output amplifiers in one of two ways, depending on how the front panel switch is set (see the diagram to the right).

- **Stereo**: The left and right channels are sent to the left and right output amplifers respectively.

- **Dual Mono**: The left and right channels are summed and then the resulting mono signal is fed to both of the output amplifiers.
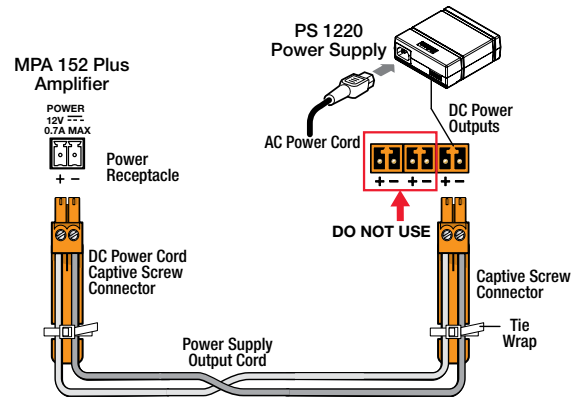
> **NOTE:** The captive screw, RCA and TRS inputs are buffered.

5. Connect the pre-wired captive screw connector to one of the 2-pole, 3.5 mm captive screw outlets on the provided power supply and the other end into the power receptacle on the amplifier (see the figure to the right). The power cord connectors are correctly wired when shipped. The MPA 152 Plus ships with a 24 W desktop power supply.
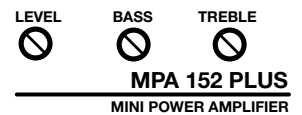
> **ATTENTION:**
>
> - See the attention notices in the Power Input section of the *MPA 152 Plus Series User Guide* for important information about using power supplies.
>
> - When the power supply is connected to the MPA 152 Plus, it must not be shared with any other devices.
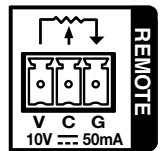
6. Adjust the MPA 152 Plus input level, bass, and treble from the front panel (see figure at right).

a. If necessary, unplug the remote connector from the unit (see step 7, below).

b. If connecting the amplifier to a system with adjustable volume, set the system volume to its lowest point. Then adjust the MPA 152 Plus front panel level potentiometer fully counterclockwise.

c. Set the system volume to its maximum volume level (no sound should come out).

d. Return to the MPA 152 Plus and raise the level until sound distortion first occurs, then lower slightly until the distortion disappears. This setting ensures that, whatever the system volume setting may be, no clipping occurs.

e. Adjust bass and treble to preference.

7. The rear panel 3-pole Remote captive screw port on the amplifier can be used for remote control of the volume by an Extron volume controller such as an Extron VCM 100 AAP, VC 50, or MLA VC10 Plus. A MediaLink controller can also adjust the audio volume via a network connection or by IR remote (see the *MPA 152 Plus Series User Guide*).