

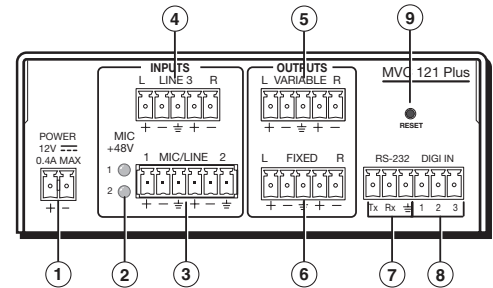
MVC 121 Plus • Setup Guide

The Extron MVC 121 Plus is an audio mixer and volume controller that will mix up to two mono mic/line inputs (balanced/unbalanced) with one stereo line level input (balanced/unbalanced). All audio input signals are converted from analog to digital prior to processing or routing. Each mic/line input and the line level input have their own gain control adjustment screws. The mixed variable output also features a volume control knob on the front panel.

NOTE: For full installation, configuration, and operation details, see the *MVC 121 Plus User Guide*, available at www.extron.com.

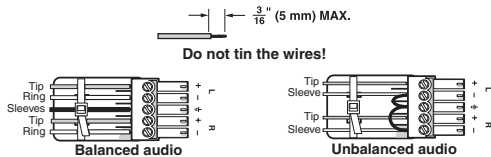
Rear Panel Features and Connections

- | | |
|-------------------------------------|---------------------------|
| ① 12 VDC power connector | ⑥ Fixed output connector |
| ② Mic 1 and 2 Phantom power LED | ⑦ RS-232 connector |
| ③ Mic/Line input connectors (1 – 2) | ⑧ Digital input connector |
| ④ Line input connector (3) | ⑨ Reset button |
| ⑤ Variable output connector | |



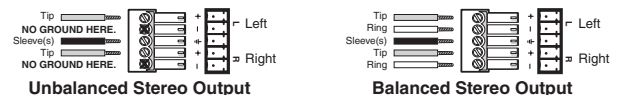
Installing the MVC 121 Plus

- Disconnect power** from all equipment.
- (Optional) **Mount the unit to a rack or furniture.**
- Connect the audio inputs.**
 - Connect up to two balanced or unbalanced mono mic/line level input devices to connector ③ above (see the 6-pole wiring diagram on the right). Alternatively, two 3-pole connectors may be used.
 - A balanced or unbalanced stereo line level input may be connected to ④ above (see the 5-pole wiring diagram below).



4. Connect the audio output.

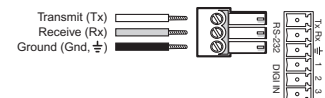
- For variable balanced or unbalanced stereo output controlled by the front panel knob of the MVC 121 Plus, connect an amplifier to the Variable connector ⑤, above (see the wiring diagram on the right).
- For fixed stereo output, connect an output device to Fixed connector ⑥ (see the wiring diagram above).



5. Connect a control device.

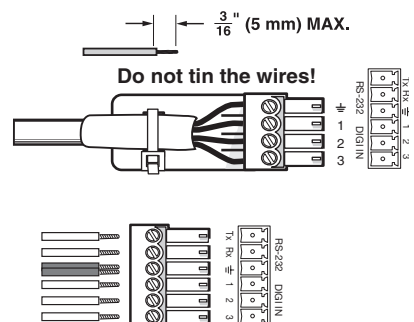
Connect a host device, such as a computer, to one of the following MVC ports to configure and control the MVC 121 plus via Simple Instruction Set (SIS™) commands.

- RS-232 port (rear panel)** — Connect a host device to the Tx, Rx, and ⚡ (ground) pins of this 6-pole captive screw connector (⑦). The default baud rate for this port is 38400 baud, 1 stop bit, no parity, 8 data bits, and no flow control (see the wiring diagram on the right).
- Config port (front panel)** — See [Front Panel Features](#) on the next page.



6. Digital input connector.

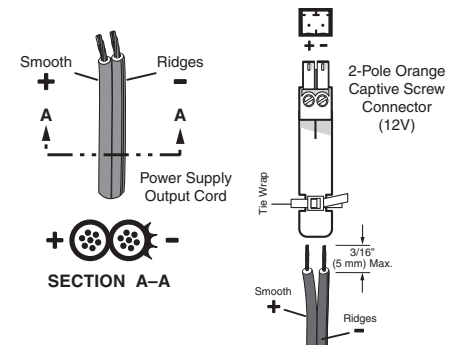
Up to three configurable input ports (see ⑧ on the rear panel diagram above) allow connection to various devices including motion detectors, alarms, buttons, photo (light) sensors, and temperature sensors. This connector shares a common ground with the RS-232 connector (see the wiring diagram on the right).



Both the RS-232 and digital input connectors may be used simultaneously by using a 6-pin captive screw connector with two wires sharing the ground connector (see the diagram on the right).

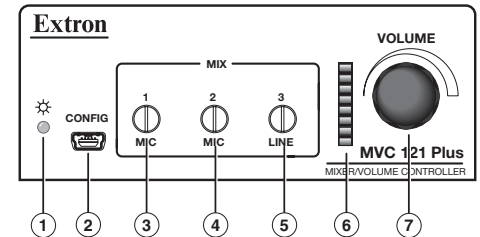
MVC 121 Plus • Setup Guide (continued)

7. **Reset button.** The recessed reset button (see ⑨ on the rear panel diagram on the previous page) is used to access various modes of resets. The green power LED on the front panel indicates the reset mode that was used.
8. **Connect power** to the MVC by connecting the included 12 VDC external power supply to the rear panel power connector (see ① on the rear panel diagram). The wiring diagram is shown on the right.
9. **Install the software.** Configuration and control is done via both hardware encoders and software. The control software, DSP Configurator, is available at www.extron.com (see **Software and Manual Download from the Website** below). The control software help file contains operation descriptions.



Front Panel Features (see the front panel diagram at right)

- ① **Power/Reset LED** — This power indicator lights green when the MVC 121 Plus is operational. The LED also blinks per mode reset.
- ② **Configuration (Config) port** — Connect a PC to the USB Mini-B connector for configuring the MVC using the DSP Configurator Software. The MVC 121 Plus USB driver must be installed prior to using this port.
- ③ **Mic 1 input gain control** — Rotating the encoder screw clockwise increases the gain setting. Rotating the encoder screw counterclockwise decreases the gain. This adjustment controls the single gain point in the mix matrix that mixes mono mic 1 levels to the stereo output bus.
- ④ **Mic 2 input gain control** — Rotating the encoder screw clockwise increases the gain setting. Rotating the encoder screw counterclockwise decreases the gain setting. This adjustment controls the single gain point in the mix matrix that mixes mono mic 2 levels to the stereo output bus.
- ⑤ **Line level input 3 gain control** — Rotating the encoder screw clockwise increases the gain setting. Rotating the encoder screw counterclockwise decreases the gain setting. This adjustment controls the single gain point in the mix matrix that mixes line level input 3 to the stereo output bus.
- ⑥ **LED ladder indicator bar** — As the mix-point gain or output volume increases or decreases, the LED indicator bar lights from the bottom to the top to indicate the current mix-point or volume level. As the volume is increased or decreased within a volume range, the top lit LED flashes once. If the knob is turned past maximum volume, all 8 LEDs flash for as long as the knob continues to be turned. After 3 seconds of inactivity, the knob controls the variable volume output.
- ⑦ **Volume level adjust knob** — Rotating the adjustment knob clockwise increases the output volume. Rotating the knob counterclockwise decreases the volume.



Software and Manual Download from the Website

1. Using any internet browser, go to www.extron.com.
2. From the Extron home page, select the **MVC 121 Plus** from the **Product Shortcuts** drop-down menu.
3. Select the **Downloads** tab on the MVC 121 Plus product page.
4. Select the User Guide from the list of available documentation and click on it to either view or download it to the hard drive for future reference.
5. To download the control software, on the **Downloads** tab select **DSP Configurator**.
6. The link navigates to the selected software download page. Fill out the form, then download the software to the hard drive.

NOTE: On the first installation of DSP Configurator, the USB driver loads automatically. Follow the on-screen instructions. Once the USB driver has loaded, DSP Configurator continues to load.

By default, the program installs in C:\Program Files\Extron\DSP Configurator and an icon is placed on the desktop.