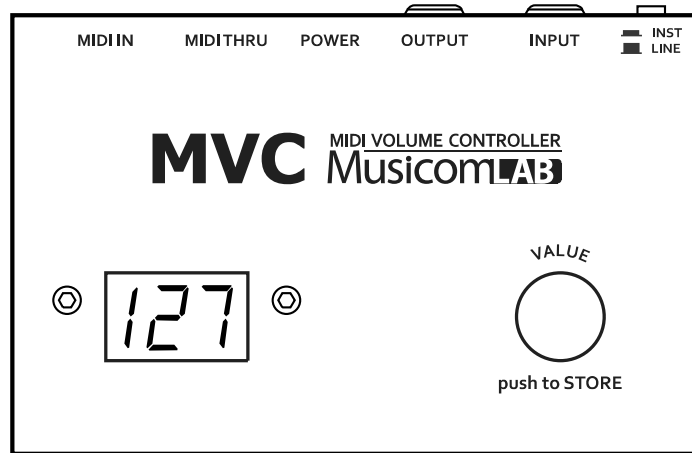


# MVC MIDI VOLUME CONTROLLER



## USER MANUAL ( Ver 1.0 )

Musicom LAB

### Features

- ◆ Programmable All-analog VCA (Voltage Controlled Amplifier) circuit
- ◆ 128 steps audio volume control
- ◆ 128 presets respond to MIDI Program Change Messages
- ◆ Discrete volume change responds to MIDI Continuous Controller Values
- ◆ Instrument / Line audio level switch
- ◆ Three character LCD display for easy viewing of the audio level
- ◆ 30 clicks rotary encoder(/w switch) for easy changing of the value
- ◆ Powered by regulated 12V DC (approx. 60mA)
- ◆ Aluminium enclosure 125 W x 80 D x 60 H (mm)
- ◆ Weight : 250 g

### Description

- INPUT** : This is an input jack for guitar or external audio signal.
- OUTPUT** : This is an output jack for an audio signal. Connect to your amplifier or other external device.
- MIDI IN** : This is a 5-Pin DIN jack that allows the MVC to receive MIDI commands from an external MIDI device.
- MIDI THRU** : This is a 5-Pin DIN jack that passes MIDI commands to received by MIDI IN jack to other MIDI devices.
- LEVEL SWITCH** : This switch is provides selection for the rate input level (Instrument / Line).
- POWER** : This is a standard 5.5mm/2.1mm barrel jack. Regulated 12VDC, 60mA (can use in Voodoo Lab Pedal Power ACA mode)
- DISPLAY** : This LCD displays the volume control (0 - 127) or MIDI channel (1 - 16).
- VALUE** : By rotating the knob, you can modify an volume control or MIDI channel. By pressing th knob, you can store a volume control or MIDI channel.

## Operation

The MVC utilizes two modes of operation, Program Change mode and Continuous Controller mode.

On power-up, the display will show 127, the volume control output is unit gain.

*Note* : On the display, 127 is unit gain (0dB)

### **Program Change mode**

When a MIDI Program Change message is received on the same MIDI Channel as the MVC, the MVC will automatically recall the stored volume control data in the memory.

1. Using your MIDI footcontroller, select a preset that will transmit a MIDI Program Change message to the MVC.
2. Rotate the value knob to edit a volume control from 0 through 127. The display back-light will be flashing.
3. Press the Value knob to store a volume control in the memory. The display back-light will stop flashing

Simply repeat the above three steps to create more presets for other MIDI Program Change messages.

### **Continuous Controller mode**

The MVC responds the MIDI Continuous Controller messages.

The Controller number is 007.

In the Continuous Controller mode, a volume control is a received MIDI Control Value (0 - 127).

### **Edit MIDI Channel**

1. Apply power while pressing and holding the value knob. The display will show the present MIDI channel.

2. Rotate the value knob to edit a MIDI channel from 0 through 16.
3. Press the Value knob to store a new MIDI channel in the memory. The display back-light will stop flashing and the MVC will automatically restart.

*Note* : The Initial default setting is MIDI channel 1.

### **Change Operating Mode**

1. Apply power while pressing and holding the value knob. The display will show the present MIDI channel.
2. Rotate the value knob to change the operating mode until the PC or CC is shown on the display.


**PC** means Program Change mode.

**CC** means Continuous Controller mode.

3. Press the Value knob to change the operating mode. The display back-light will stop flashing and the MVC will automatically restart.

*Note* : The Initial default setting is **PC** (Program Change mode).

### **Specification (Ver 1.0)**

Power Supply	: 12V DC (60mA)	
Input Impedance	: 1M ohm	
Output Impedance	: 2k ohm or greater load impedance	
Input / Output level	: Instrument (-10dBv), Line (0dBv)	
THD + Noise	: <0.02% (20 - 20kHz, 0dB attenuation)	
Volume Control Range	: -80dB - 0dB (0 - 127), audio taper	
MIDI Channel	: 1 - 16	
MIDI Program Change	: 1 - 128	
MIDI Controller number	: 7	
MIDI Control Value	: 0 - 127	