



## OWNER'S MANUAL

Congratulations on purchasing **SIMI™** by *Molten Voltage*

**SIMI™** is a simple-to-use **Modular MIDI PedalBoard Display** that features 16 Large Bright Red Alphanumeric LEDs.

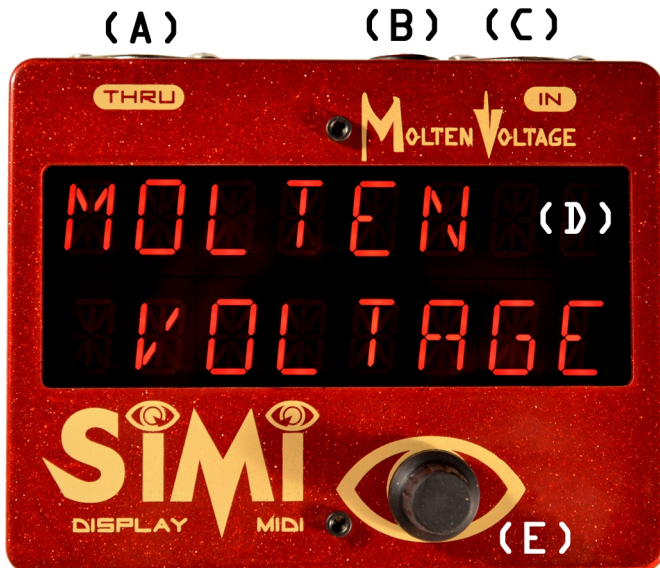
### Key Features

- A bright alphanumeric display for your PedalBoard
- Works with any MIDI controller
- Tall, easy-to-read LED segments
- Store and Recall custom text for each of 128 MIDI programs
- **Simple to Program** - hold down the knob until the first character blinks, turn the knob to select, press to change segments, then hold down the button when finished!
- Lots of additional characters
- **RealTime message capability** for use with Cakewalk, Sonar, etc.
- Buffered MIDI Thru to daisy-chain additional devices, or another SIMI...
- Compact design for modular PedalBoard layouts
- Solid, Professional-Grade construction, including Riveted Steel MIDI Jacks
- **PedalBoard Bling** at its finest!



## CONNECTING

Plug in a separate or isolated 9 volt, 2.1mm, 100mA minimum, **tip negative** DC Power supply into the DC Power Jack (B). **Never power SIMI using a "daisy chained" power supply that is also connected to audio effects.**



- (A) MIDI THRU Jack
- (B) DC Power Jack
- (C) MIDI IN Jack
- (D) Display
- (E) Knob/Button

### MIDI Output

Connect a standard 5-pin MIDI cable from the MIDI THRU Jack (A) to the MIDI IN Jack on your compatible device.

*Note: The MIDI Thru jack repeats all MIDI messages received at the input, irrespective of MIDI Channel.*

### MIDI Input

Connect a standard 5-pin MIDI cable from the device sending MIDI Program Changes to the MIDI IN Jack (C) on SIMI.

When a Program Change is received on the correct MIDI Channel, SIMI displays the stored message.

### Programming

SIMI stores a custom message of up to 16 characters for each of 128 programs.

To change the custom message, send SIMI a Program Change to switch to the program you want to write.

Hold down the Button (E) until the display goes dark, then release and the first character will be blinking.

Turn the Knob (E) to select the character for that segment.

Press the Button (E) to advance to the next segment.

Repeat until your message is complete, then hold down the Button until the display goes dark. Release to exit program mode.

*Note: shorter messages, and those with more blank segments, are brighter than longer ones.*

### **Program Recall**

Upon receipt of a Program Change on the correct MIDI Channel, SIMI displays the stored message.

Pressing the button quickly briefly displays the current program number.

### **Changing MIDI Input Channel**

You can select the MIDI Channel to which SIMI will respond as follows:

Hold down the Button (E) when powering on. SIMI will display "MIDICHAN" on the top line, and the MIDI Input Channel on the bottom line.

Turn the knob to select the MIDI Input Channel. If set to "OMNI", SIMI will respond to Program Changes on every MIDI Channel.

Press the Button again to exit, and SIMI will say "SAVED MIDICHAN" then restart.

*Note: the primary MIDI channel for the Molten Voltage system is MIDI Channel 15.*

### **RealTime Messages**

SIMI is capable of displaying RealTime messages using the *proprietary* Molten Voltage SIMI-SYSEX protocol.

This is useful in combination with DAW programs like CakeWalk and Sonar which can send SYSEX messages during song playback. Display the first words to a song, count down, chord changes, tempo, or any other custom message.

Following is a table of the SIMI Characters that can be displayed in RealTime, together with their corresponding hexadecimal (hex) value:

Character	Hex Value
<i>blank</i>	0
A	1
B	2
C	3
D	4
E	5
F	6
G	7
H	8
I	9
J	A
K	B
L	C
M	D
N	E
O	F
P	10
Q	11
R	12
S	13
T	14
U	15
V	16
W	17
X	18
Y	19
Z	1A

Character	Hex Value
0	1B
0.	1C
1	1D
1.	1E
2	1F
2.	20
3	21
3.	22
4	23
4.	24
5	25
5.	26
6	27
6.	28
7	29
7.	2A
8	2B
8.	2C
9	2D
9.	2E

Character	Hex Value
+	2F
-	30
*	31
/	32
\	33
>	34
<	35
.	36
_	37
left	38
center	39
right	3A
left	3B
right	3C
	3D
	3E
top bar	3F
middle bar	40
bottom bar	41
top and middle bar	42
top and bottom bar	43
middle and bottom bar	44
all 3 bars	45
arrow up	46
arrow down	47
fork left	48
fork right	49
fork up	4A
fork down	4B
triangle left	4C
triangle right	4D
triangle up	4E
triangle down	4F
diagonal 8	50
infinity	51

The **Format of the SIMI-SYSEX Message** must be as follows:

**F0 77 [message of 1-16 characters] 75 F7**

Molten Voltage offers simple Mac and PC utilities for converting your message into the SIMI-SYSEX format. Find them online at [MoltenVoltage.com](http://MoltenVoltage.com)

### **Factory Preset Values**

- MIDI Channel OMNI

*Note: the primary MIDI channel for the Molten Voltage system is MIDI Channel 15.*

### **MIDI Phantom Power**

SIMI does not use MIDI Phantom Power.



### **Related Products**

- Molten Voltage MASTER CONTROL (MV-58 and MV-58B)
- Molten Voltage MIDI Splitty - MIDI Pedalboard Splitter / Repeater

*Many more available soon!*

## MIDI IMPLEMENTATION CHART

Function	Passed	Accepted	Comment
Note On	O	X	
Note Off	O	X	
Aftersustain	O	X	
Control Change	O	X	
Program Change	O	O	Program Change data must be on the same MIDI Channel as SIMI.
Channel Pressure	O	X	
Pitch Bend	O	X	
System Common	O	X	All System Common messages filtered except Song Select.
System Exclusive	O	O	SIMI displays RealTime messages in response to Molten Voltage SIMI SYSEX commands.
System Realtime	O	X	

O = YES, X = NO, Y = See Comment

## TROUBLESHOOTING

Problem	Solution
SIMI will not turn on.	Plug in 9 volt DC, 2,1mm Tip <u>Negative</u> Power Supply.
Clicking or Noise	Use a <i>separate or isolated</i> Power Supply for SIMI
SIMI is not responding to MIDI Program Changes	Make sure your other MIDI device is configured to send MIDI Program Changes on the same MIDI Channel as SIMI. Consult the User's Guide for that device.
SIMI is not responding to SYSEX RealTime messages	Make sure your SYSEX message has been formatted correctly.  Make sure your MIDI device can send SYSEX messages.

### General Guidelines

- Keep MIDI cables as short as possible. Long cables cause errors. If you need more length, consider using a MIDI repeater.
- If you are daisy chaining MIDI devices, the total MIDI cable length must be considered if any MIDI devices do not amplify the data signal.

## Support

[questions@MoltenVoltage.com](mailto:questions@MoltenVoltage.com)

## Warranty

Molten Voltage is proud of its products and warrants this unit for a period of two (2) years from the date of purchase to be free from defects in materials and workmanship under normal use and service, as long as the unit is used with an approved power supply, and consistent with these instructions.

Contact [Service@MoltenVoltage.com](mailto:Service@MoltenVoltage.com) regarding repairs. Any user repair attempts void the warranty. PROOF OF PURCHASE IS REQUIRED FOR WARRANTY REPAIRS.

**Molten Voltage**  
**MIDI PedalBoard Devices**

**Sturdy**  
**Scalable**  
**Simple™**

*streamline your sound™*



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