The MidiValts Desktop is a MIDI based 5 octave CV controller. The device contains 4 separate CV outputs with an associated Gate output. These CV outputs are called voices, and are named VD, VI. VZ. V3. Each voice operates on the 1 volt per octave standard for eurorack and most hardware synthesizers. The device uses 6 different modes (MOND, DUD, UNISON, POLY3, POLY4, CC) to control each voice in different ways. See below for descriptions of each Mode. The device also contains a Midi to Clock output conversion and further customizations with SysEx midi messaging.

MIDI IN Jack: Connect MIDI Controller/ keyboard MIDI GATE Jack: 3.5 mm jack used to output a 5V Gate Signal OUT to the MidiVolts Desktop MIDI IN (Channel 1).

CV Jack: 3.5 mm jack used to output 1 V/Oct Control Voltages. Due to the outputs low output impedance (5 Ω), multiple oscillators may be connected to any CV and retain precise voltages. Max. Output Voltage: 5V

MONO: Monophonic Mode

Voice O (VO) is Pitch CV for the key pressed. Voice 1 (VI) is Velocity of key pressed. Voice 2 (V2) is Aftertouch of key pressed. Voice 3 (V3) is CC1. Default: Mod Wheel.

DUO: Duophonic Mode

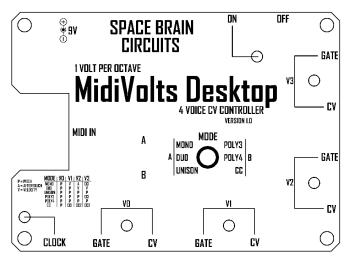
Voice O (VO) is Pitch CV for first key pressed. Voice 1 (VI) is Pitch CV for second key pressed. Voice 2 (V2) is Velocity of first key pressed. Voice 3 (V3) is Velocity of second key pressed.

UNISON: Unison Mode

The purpose of this mode is to aid in the tuning of all connected oscillators.

Voice O (VD) is Pitch CV for the key pressed. Voice 1 (VI) is Pitch CV for the key pressed. Voice 2 (V2) is Pitch CV for the key pressed. Voice 3 (V3) is Pitch CV for the key pressed. when a note has been pressed. (IK Ω Dutput Impedance)

CLOCK Jack: The device will begin outputting clock pulses when it reads a Start/ Continue message. (1KΩ Dutput Impedance)



Note: If more than the allowable amount of keys are pressed, the most recent pressed key will overwrite the previous, even if this key is still beina held.

9V DC Jack: DC power supply not included. 2.1 mm barrel plug (Center Positive)

DIV Switch: Determines which Mode is used to operate MidiValts. Options selectable by first choosing which column the Mode will access, as assigned by the A | B switch

POLY3: 3 Voice Polyphonic Mode

Voice O (VO) is Pitch CV for the first key pressed. Voice 1 (VI) is Pitch CV for the second key pressed. Voice 2 (V2) is Pitch CV for the third key pressed.

Voice 3 (V3) is CC1. Default: Mod Wheel.

POLY4: 4 Voice Polyphonic Mode

Voice O (VO) is Pitch CV for the first key pressed. Voice 1 (VI) is Pitch CV for the second key pressed. Voice 2 (V2) is Pitch CV for the third key pressed.

Voice 3 (V3) is Pitch CV for the fourth key pressed.

CC: Continuous Control Mode

Voice O (VD) is Pitch CV for the key pressed. Voice 1 (VI) is CC1. Default: Mod Wheel. Voice 2 (V2) is CC2. Default: 74

Voice 3 (V3) is CC3. Default: 71.

The following may be adjustable with Midi SysEx messages.

Midi Channel: 1 - 16

CV Gain, CV Offset: These are adjustable per voice

Pitch Bend Up, Pitch Bend Down: Specify the number of semitones.

CC1, CC2, CC3: May be assigned 0 - 127 as desired.

Please go to github.com/spacebraincircuits/midivoltsdesktop for all operations and guide.

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OUT to the MidiVolts Desktop MIDI IN (Channel 1).

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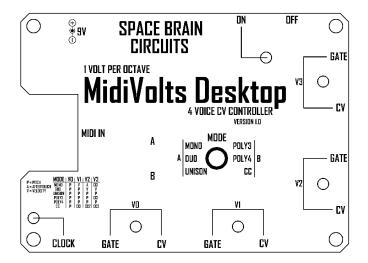
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Voice O (VO) is Pitch CV for the first key pressed. Voice 1 (VI) is Pitch CV for the second key pressed. Voice 2 (V2) is Pitch CV for the third key pressed.

Voice 3 (V3) is CC1. Default: Mod Wheel.

POLY4: 4 Voice Polyphonic Mode

Voice O (VO) is Pitch CV for the first key pressed. Voice 1 (VI) is Pitch CV for the second key pressed. Voice 2 (V2) is Pitch CV for the third key pressed.

Voice 3 (V3) is Pitch CV for the fourth key pressed.

CC: Continuous Control Mode

Voice O (VO) is Pitch CV for the key pressed.

Voice 1 (VI) is CCI. Default: Mod Wheel. Voice 2 (V2) is CC2. Default: 74

Voice 3 (V3) is CC3. Default: 71.

The following may be adjustable with Midi SysEx messages.

Midi Channel: 1 - 16

CV Gain, CV Offset: These are adjustable per voice

Pitch Bend Up, Pitch Bend Down: Specify the number of semitones.

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Please go to github.com/spacebraincircuits/midivoltsdesktop for all operations and guide.

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